



## **Cisco Nexus 3000 Series NX-OS N9K Mode Command Reference (Configuration Commands), Release 9.3(1)**

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## Preface

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This preface includes the following sections:

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

## Audience

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

## Documentation Conventions

Command descriptions use the following conventions:

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

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

Examples use the following conventions:

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

## Documentation Feedback

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

## Communications, Services, and Additional Information

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

### Cisco Bug Search Tool

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



## Notice

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- [Notice, on page 2](#)

# 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.

---



# Introduction

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- [Introduction, on page 4](#)

# Introduction

This command reference guide describes the NX-OS command-line interface (CLI) commands available on Cisco Nexus 3000 Series switches for configuring and operating the switches in the N9K mode. Commands that are for internal use only, such as debug and test commands, are not included in this guide.



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**Note** Some Cisco Nexus 3000 Series switches now support two system modes: the N3K mode and the N9K mode. The N3K mode (the default mode) uses the same CLI commands as the previous Cisco Nexus 3000 Series NX-OS releases. The N9K mode enables the Cisco Nexus 3000 Series switches to use the Cisco Nexus 9000 Series switches CLI commands. This command reference guide describes the N9K mode commands.

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## 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
grp_name	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
grp_name	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	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

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	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

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 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
i1	Fail attempts max value
in	Watch period for fail attempts
i2	Time period in seconds
ban	Block time period
i3	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	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

### 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	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

### 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
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	Use local username authentication
local1	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

### 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 server radius dynamic-author

[no] aaa server radius dynamic-author

Syntax Description

no	(Optional) Negate a command or set its defaults
aaa	Configure aaa functions
server	Local AAA server
radius	Profile for local radius server
dynamic-author	Local server profile for RFC 5176 support

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 the current configuration session
-------	---

Command Mode

- /exec/configure

# abort

abort

Syntax Description

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

Command Mode

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

# 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
i0	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

seqno	(Optional) Sequence number
no	Negate a command or set its defaults
absolute	Absolute time and date
start	Starting time and date
stime	Starting time
sday	Day of the month
smonth	Month
syear	Year
end	(Optional) Ending time and date
etime	(Optional) Ending time
eday	(Optional) Day of the month
emonth	(Optional) Month
eyear	(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
stime	HH:MM:SS Time to start <0-23>:<0-59>:<0-59>
etime	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	
sday	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

eday	Day of the month to end
syear	Year to start
eyear	Year to start
duration	Set key lifetime duration
dsec	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
name	List name
inout	Traffic direction

## Command Mode

- /exec/configure/line

# 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
acl-name	Access-list name

Command Mode

- /exec/configure/plb

## access-list

[no] access-list <acl-name> [ device-group <dgrp\_name> ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
access-list	ITD access-list name
device-group	(Optional) device-group
acl-name	ITD user ACL name
dgrp_name	(Optional) access-list device-group name

### Command Mode

- /exec/configure/itd

## access-list ipv6

[no] access-list ipv6 <acl-name> [ device-group <dgrp\_name> ]

Syntax Description

no	(Optional) Negate a command or set its defaults
access-list	ITD access-list name
ipv6	ipv6 access-list
device-group	(Optional) device-group
acl-name	ITD user ACL name
dgrp_name	(Optional) access-list ipv6 device-group name

Command Mode

- /exec/configure/itd



## access vlan

[no] access vlan <vlan>

Syntax Description

no	(Optional) Negate a command or set its defaults
access	access
vlan	vlan
vlan	Vlan

Command Mode

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

## aclog match-log-level

[no] aclog match-log-level <level>

Syntax Description

no	(Optional) Negate a command or set its defaults
aclog	Configure ACL logging
match-log-level	aclog logging level
level	match log level

Command Mode

- /exec/configure

# action

[no] action <label>

Syntax Description

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

Command Mode

- /exec/configure/event-manager-applet

# 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)
intf	Interface traffic is redirected to

## Command Mode

- /exec/configure/vacl

## action cli

action <label> cli [ local ] <vsh\_cmd>

### Syntax Description

action	Configure the actions to be executed
label	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
vsh_cmd	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
label	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
counter-name	Name of the counter
value	Specify the value to be applied to the counter
counter-value	Enter an integer value or a \$ prefixed name (parameter substitution)
op	Specify the operator to be applied
op-val	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
label	Enter the label <num1>[.<num2>] for action order num2 must be 0-9
eem	Event Manager command
test	Do test action
param	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
label	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 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
label2	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)
module	(Optional) please enter the module number
mod-str	(Optional) Enter the module number (integer value) or a \$ prefixed parameter name
s0	(Optional) Optional. Xbar to be forced to shut down(optional argument)
santa-cruz-range	(Optional) please enter the xbar number
santa-cruz-string	(Optional) Enter the xbar number (integer value) or a \$ prefixed parameter name
reset-reason	Shut down (with reset-reason)
reset_reason_string	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
label	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)
module	(Optional) please enter the module number
mod-str	(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
label	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 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
label	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
module	(Optional) please enter the module number
mod-str	(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
label	Enter the label <num1>[.<num2>] for action order num2 must be 0-9
snmp-trap	Send
intdata1	(Optional) Enter
integer-data1	(Optional) Integer
intdata2	(Optional) Enter
integer-data2	(Optional) Integer
strdata	(Optional) Enter
string-data	(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
label	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
prio	(Optional) Enter the priority
prio-str	(Optional) Enter a valid \$ prefixed name, for parameter substitution
msg	Enter the message for the syslog
msg-text	The message text

### Command Mode

- /exec/configure/event-manager-applet

# 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

## 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
rmap-name	Route-map name

Command Mode

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

## address-family ipv4

[no] address-family ipv4

Syntax Description

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

Command Mode

- /exec/configure/config-sr-mpls/config-sr-mpls-conn-pfxsid

# 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 | 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 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 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 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 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 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 | 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 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 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 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

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 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 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 IPv6 unicast address-family

Command Mode

- /exec/configure/router-ospf3/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-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 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 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 | 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 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 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 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 | 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 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 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 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 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-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

```
{ 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
ip_address	ip address

## Command Mode

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

# address

[no] address <ip\_addr> [ primary ]

## Syntax Description

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

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

## Syntax Description

no	(Optional) Negate a command or set its defaults
address	Address range for the pool
start-ip	Start IP address
end-ip	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
ipv4-addr	IPv4 address of the BMP server
port-number	Configure the port for the BMP server
port-number	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

{ 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
ip_address	ip address
secondary	a virtual IP address without owner

## Command Mode

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

# address secondary

[no] address <ip\_addr> secondary

Syntax Description

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

Command Mode

- /exec/configure/if-eth-any/vrrpv3\_ipv4



# 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-ipv4 /exec/configure/router-isis/router-isis-af-ipv6

# advertise-gw-ip

[ no | default ] advertise-gw-ip

Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
advertise-gw-ip	Advertise Gateway IP in Type-5 routes to neighbor

Command Mode

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

## 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
vrf-name	(Optional) VPN Routing/Forwarding instance name
vrf-known-name	(Optional) Known VRF name
for	(Optional) Prefix list specifying controls on destination prefixes
pfx-list	(Optional) Name of prefix list
to	(Optional) Prefix list specifying controls on LDP peers
peer-pfx-list	(Optional) Name of prefix list
interface	(Optional) Advertise /32 interface address
intf	(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
advrt-rmap-name	Route-map name
cond-rmap-name	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 interface

[no] advertise interface <interface> [ <level> ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
advertise	Advertise interface IP
interface	Advertise interface IP
interface	Interface to advertise
level	(Optional) IS-IS level

### Command Mode

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



## advertise local-labeled-route

[ no | default ] advertise local-labeled-route

Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
advertise	Advertise to peer
local-labeled-route	Advertise a route with local label to peer

Command Mode

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

# 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

advertisement-interval <adv-sec> | { no | default } advertisement-interval [ <adv-sec> ]

## Syntax Description

no	Negate a command or set its defaults
default	Inherit values from a peer template
advertisement-interval	Minimum interval between sending BGP routing updates
adv-sec	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
interval_time	Time interval (in seconds) between advertisements

## Command Mode

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

# 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
affinity_group_id	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
affinity_group_id	AFFINITY Group ID

### Command Mode

- /exec/configure/router-bgp

# affinity-map

[no] affinity-map

Syntax Description

no	(Optional) Negate a command or set its defaults
affinity-map	Configure Affinity map

Command Mode

- /exec/configure/sr/te

# 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
hex_value	affinity value
mask	(Optional) mask on desired link attributes
mask_value	(Optional) affinity mask value

## Command Mode

- /exec/configure/te/lsp-attr



# affinity

[no] affinity

Syntax Description

no	(Optional) Negate a command or set its defaults
affinity	Configure Affinity Constraints

Command Mode

- /exec/configure/sr/te/color/cndpaths/pref/constraint

# affinity

[no] affinity

Syntax Description

no	(Optional) Negate a command or set its defaults
affinity	Configure Affinity Constraints

Command Mode

- /exec/configure/sr/te/pol/cndpaths/pref/constraint

# affinity

[no] affinity

Syntax Description

no	(Optional) Negate a command or set its defaults
affinity	Specify the interface affinities

Command Mode

- /exec/configure/sr/te/if

# 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
value	affinity value
mask	(Optional) mask on desired link attributes
mask-value	(Optional) affinity mask value

## Command Mode

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

# age

{ [ no ] age <age> | no age }

## Syntax Description

age	Provide the age value for this INT flow-profile
age	flow-profile age (seconds). Default is 30.

## Command Mode

- /exec/configure/config-int-flow-prof

# age

{ [ no ] age <age> | no age }

## Syntax Description

age	Provide the age value for this POSTCARD flow-profile
age	flow-profile age (seconds). Default is 30.

## Command Mode

- /exec/configure/config-postcard-flow-prof

# 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
advertise-rmap	(Optional) Route-map name
suppress-rmap	(Optional) Route-map name
attribute-rmap	(Optional) Route-map name

## Command Mode

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

# 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
ip-addr	Aggregate address
ip-mask	Aggregate mask
ip-prefix	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
advertise-rmap	(Optional) Route-map name
suppress-rmap	(Optional) Route-map name
attribute-rmap	(Optional) Route-map name

## Command Mode

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



## alert-group user-def-cmd

```
{ alert-group { Configuration | Diagnostic | Environmental | Inventory | License | Linecard-Hardware |
Supervisor-Hardware | Syslog-group-port | System | Test } [ index <i0> ] user-def-cmd <s0> | no alert-group
{ Configuration | Diagnostic | Environmental | Inventory | License | Linecard-Hardware | Supervisor-Hardware
| Syslog-group-port | System | Test } index <i0> }
```

### Syntax Description

no	Negate a command or set its defaults
alert-group	alert group
user-def-cmd	configure a cli command for an alert group
index	(Optional) configure an index(1 to 5) for the cli command for the alert group
i0	(Optional) Index between 1 to 5 associate with 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-index

{ allocate-index <id> } | { no allocate-index [ <id> ] }

## Syntax Description

no	Unconfigure allocate-index
allocate-index	Configure allocate-index
id	Specify allocate-index

## Command Mode

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

# 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
rmap-name	Route-map name

## Command Mode

- /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
interface-id	Assign interface range to vdc
force	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
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
vlan_range	(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
vdc_names	(Optional) which vdc will be sharing portst 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
sinterface-id	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 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
fs	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
allowas-in-cnt	(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
allowas-in-cnt	(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
rloc	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
allow-vlans	VLAN ID 1-4094 or range(s) like: 1-5, 10 or 2-5,7-19
add	add VLANs to the current list
add-vlans	VLAN ID 1-4094 or range(s) like: 1-5, 10 or 2-5,7-19
except	all VLANs except the following
except-vlans	VLAN ID 1-4094 or range(s) like: 1-5, 10 or 2-5,7-19
remove	remove VLANs from the current list
remove-vlans	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
interface	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
clustername	Cluster name
vrf	(Optional) VRF Name
vrfName	(Optional) VRF name
srcIf	(Optional) Source Interface
src_intf	(Optional) Source Interface

### Command Mode

- /exec/configure



# anonymous-id

{ [ no ] anonymous-id <id> }

## Syntax Description

anonymous-id	anonymous identity associated with this profile
id	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
index	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
ipaddr	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
all_conf_profile_name	Enter the name of the profile
param-instance	(Optional) Enter the name of the param-instance
plistinst	(Optional) Enter the name of the instance
include-profile	(Optional) Enter the name of the include profile
include-profile	(Optional) Enter the name of the include profile
include-instance	(Optional) Enter the param-instance corresponding to the first included profile
plistinst	(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
area-id-ip	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
area-id-ip	Area Id as an integer or ip address
authentication	Enable Authentication
disable	Disable Authentication
ipsec	IPSec
spi	Security Parameter Index
spi_id	SPI Value
md5	Use the MD5 algorithm
akey	Authentication Key
sha1	Use the SHA1 algorithm
akey	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
area-id-ip	Area Id as an integer or ip address
default-cost	Specify default-cost for default summary LSA
cost	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
area-id-ip	Area Id as an integer or ip address
default-cost	Specify default-cost for default inter-area-prefix LSA
cost	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
area-id-ip	Area Id as an integer or ip address
filter-list	Filter prefixes between OSPF areas
route-map	Name of filter policy
policy-name	Route-map name
rtr_pol_name	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 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
area-id-ip	Area Id as an integer or ip address
filter-list	Filter prefixes between OSPF areas
route-map	Name of filter policy
policy-name	Route-map name
rtr_pol_name	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 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
area-id-ip	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
policy-name	(Optional) Route-map name

### Command Mode

- /exec/configure/router-ospf3 /exec/configure/router-ospf3/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
area-id-ip	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
policy-name	(Optional) Route-map name

### 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
area-id-ip	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
area-id-ip	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 <ipv6-prefix> { [ not-advertise ] [ cost <conf-cost> ] } +

### Syntax Description

no	(Optional) Negate a command or set its defaults
area	Configure area properties
area-id-ip	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
conf-cost	(Optional) Cost value

### Command Mode

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

## 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
area-id-ip	Area Id as an integer or ip address
range	Configure an address range for an area
ip-dest	IP prefix format: i.i.i.i
ip-mask	IP network mask format: m.m.m.m
ip-prefix	IP prefix format: x.x.x.x/ml
not-advertise	(Optional) Suppress advertising the specified range
cost	(Optional) Cost to use for range
conf-cost	(Optional) Cost value

### Command Mode

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

## area segment-routing mpls

[no] area <area-id-ip> segment-routing { mpls | disable }

### Syntax Description

no	(Optional) Negate a command or set its defaults
area	Configure area properties
area-id-ip	Area Id as an integer or ip address
segment-routing	Segment routing parameters
disable	Disable segment routing in area
mpls	Enable segment routing MPLS in area

### Command Mode

- /exec/configure/router-ospf



## 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
area-id-ip	Area Id as an integer or ip address
sham-link	Define a sham link and its parameters
source-address	IP addr associated with sham-link source
dest-address	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
area-id-ip	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 stub

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

### Syntax Description

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

Command Mode

- /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
area-id-ip	Area Id as an integer or ip address
virtual-link	Define a virtual link and its parameters
routerid	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
area-id-ip	Area Id as an integer or ip address
virtual-link	Define a virtual link and its parameters
routerid	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
area-id-ip	Area Id as an integer or ip address
virtual-link	Define a virtual link and its parameters
routerid	Router ID associated with virtual link neighbor

### Command Mode

- /exec/configure/router-ospf/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
name	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
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-l2vpn-evpn

## assign interface shared

```
{ assign interface { <sdn-eth-intf-list> | <sdn-pc-intf-list> } shared | no assign interface { <sdn-eth-intf-list> | <sdn-pc-intf-list> } }
```

### Syntax Description

no	Negate a command or set its defaults
assign	Assign resource
interface	Resource of interface type
sdn-eth-intf-list	List of Interfaces
sdn-pc-intf-list	List of Interfaces
shared	Share interface with controller

### Command Mode

- /exec/configure/controller-type

# assign vlan dedicated

{ assign vlan <sdn-id> dedicated | no assign vlan <sdn-id> }

## Syntax Description

no	Negate a command or set its defaults
assign	Assign reservation
vlan	Controller VLANs
sdn-id	vlan ID 2-4093 or range(s): 1-5, 10 or 2-5,7-19
dedicated	Dedicated VLANs

## Command Mode

- /exec/configure/controller-type

# assign vrf prefix number dedicated

```
{ assign vrf prefix <prefix-name> number <number-of-vrfs> dedicated | no assign vrf }
```

## Syntax Description

no	Negate a command or set its defaults
assign	Assign reservation
vrf	VRFs
prefix	VRF prefix
prefix-name	String description of the prefix
number	Number of VRFs
number-of-vrfs	VRF ID range from 1 to 4095
dedicated	Dedicated VRFs

## Command Mode

- /exec/configure/controller-type

# association-group

[no] association-group

Syntax Description

no	(Optional) Negate a command or set its defaults
association-group	Candidate path association group

Command Mode

- /exec/configure/sr/te/color/cndpaths/pref/constraint

# association-group

[no] association-group

Syntax Description

no	(Optional) Negate a command or set its defaults
association-group	Candidate path association group

Command Mode

- /exec/configure/sr/te/pol/cndpaths/pref/constraint

# attach module

attach module <module>

Syntax Description

attach	Connect to a specific linecard
module	Module number of the linecard
module	Enter module number

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/l2mp-isis/l2mp-isis-vrf-common

# 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
key	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
key	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
key	SHA-1 password

## Command Mode

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



# 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
level	IS-IS level

## Command Mode

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

## 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 } | 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/l2mp-isis/l2mp-isis-vrf-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
spi_id	SPI Value
md5	Use the MD5 algorithm
akey	Authentication Key
sha1	Use the SHA1 algorithm
akey	Authentication Key

Command Mode

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

# 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
secret	Plain text authentication string
md5	Use MD5 authentication
key-chain	Set key chain
chain-name	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
key-name	Key string (64 chars max)
compatibility	(Optional) Operate in compatibility mode for MD5 type-7 authentication
timeout	(Optional) Set timeout
sec	(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

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
spi_id	SPI Value
md5	Use the MD5 algorithm
akey	Authentication Key
sha1	Use the SHA1 algorithm
akey	Authentication Key

### Command Mode

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

# 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
chain	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

[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 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)
s1	(Optional) append with dn value
compare	Change the default attribute
password-attribute	(Optional) Change the default password attribute (userPassword)
s0	(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
nbr	(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 slink
key-chain	Authentication password key-chain
keychain	Key-chain name

### Command Mode

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

# 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
auth-keychain	authentication keychain
level	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
nbr	(Optional) RSVP Neighbor address
key-chain	Authentication password key-chain
key-chain-name	Key-chain name

### 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
keychain	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 <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
auth-keychain	authentication keychain

### Command Mode

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



# 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
auth-keychain	authentication keychain

## Command Mode

- /exec/configure/l2mp-isis/l2mp-isis-vrf-common

# authentication lifetime

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

## Syntax Description

authentication	Configure RSVP neighbor cryptographic authentication
neighbor	(Optional) Configure RSVP neighbor
nbr	(Optional) RSVP Neighbor address
lifetime	Maximum lifetime of neighbor authentication state
time	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)
authentication_pwd	

## 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
nbr	(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
nbr	(Optional) RSVP Neighbor address
window-size	Receive window size for authenticated messages
value	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
sec	(Optional) seconds between applying auto-bw
max-bw	(Optional) Set the maximum bandwidth for auto-bw
max-kbps	(Optional) Maximum bandwidth to apply (kbps)
min-bw	(Optional) Set the minimum bandwidth for auto-bw
min-kbps	(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
sec	(Optional) seconds between applying auto-bw
max-bw	(Optional) Set the Maximum Bandwidth for auto-bw on this tunnel
max-kbps	(Optional) Maximum kb/s that tunnel can be auto set to
min-bw	(Optional) Set the Minimum Bandwidth for auto-bw on this tunnel
min-kbps	(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
sec	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 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
ref-bw-mbps	Rate in Mbps (bandwidth) (Default)
ref-bw-gbps	Rate in Gbps (bandwidth)

### Command Mode

- /exec/configure/router-ospf3 /exec/configure/router-ospf3/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 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
ref-bw-mbps	Rate in Mbps (bandwidth) (Default)
ref-bw-gbps	Rate in Gbps (bandwidth)

### Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/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
time-out	(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 add	Automatically re-map replication servers on every replication server

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
local-as	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
value	Set tunnel metric for autoroutes
relative	Adjust tunnel metric for autoroutes relative to IGP
rel-value	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
expr	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
initial-backoff	Initial session backoff time (seconds)
maximum-backoff	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
kbps	Amount of allocatable backup bw, any lsp may use

## Command Mode

- /exec/configure/if-te

# 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
bandwidth_val	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
percentage	Value in percentage
remaining	% of remaining bandwidth
rem-perc	Value in percentage

## Command Mode

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

# bandwidth

bandwidth <bandwidth\_val> | no bandwidth

Syntax Description

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

Command Mode

- /exec/configure/if-vlan-common

# 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
bandwidth_val	Bandwidth in kilobits
inherit	Specify that bandwidth is inherited
inherit_val	(Optional) Bandwidth in kilobits

## Command Mode

- /exec/configure/if-ether-sub /exec/configure/if-ether-sub-p2p /exec/configure/if-port-channel-sub /exec/configure/if-ethernet-p2p /exec/configure/if-ethernet-all /exec/configure/if-eth-non-member /exec/configure/if-gig-ether-sub /exec/configure/if-remote-ethernet-sub

# 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
percentage	Value in percentage
remaining	% of remaining bandwidth
rem-perc	Value in percentage

## Command Mode

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

# bandwidth

[no] bandwidth | bandwidth { <bw> }

## Syntax Description

no	Negate a command or set its defaults
bandwidth	Specify LSP bandwidth
bw	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
kbps	bandwidth requirement in kbps

## Command Mode

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

## bandwidth kbps mbps gbps

```
{ { bandwidth { <val_kbps> kbps | <val_mbps> mbps | <val_gbps> gbps } } | { dscp <dscp_val> } } | { no
{ bandwidth | dscp } }
```

### Syntax Description

no	Negate a command or set its defaults
bandwidth	Bandwidth per flow
val_kbps	Per Flow Bandwidth in Kbps
kbps	Bandwidth value in Kbps
val_mbps	Per Flow Bandwidth in Mbps
mbps	Bandwidth value in Mbps
val_gbps	Per Flow Bandwidth in Gbps
gbps	Bandwidth value in Gbps
dscp	DSCP per flow
dscp_val	Per Flow DSCP

### Command Mode

- /exec/configure/nbm-vrf/nbm-flow-policy/attr



## bandwidth kbps mbps gbps

```
{ { bandwidth { <val_kbps> kbps | <val_mbps> mbps | <val_gbps> gbps } } | { dscp <dscp_val> } } | { no  
{ bandwidth | dscp } }
```

### Syntax Description

no	Negate a command or set its defaults
bandwidth	Bandwidth per flow
val_kbps	Per Flow Bandwidth in Kbps
kbps	Bandwidth value in Kbps
val_mbps	Per Flow Bandwidth in Mbps
mbps	Bandwidth value in Mbps
val_gbps	Per Flow Bandwidth in Gbps
gbps	Bandwidth value in Gbps
dscp	DSCP per flow
dscp_val	Per Flow DSCP

### Command Mode

- /exec/configure/nbm-flow-policy/attr

# banner exec

```
{ banner exec <lineNo> } | { no banner exec }
```

## Syntax Description

no	Negate a command or set its defaults
banner	Configure banner message
exec	Configure banner exec message
lineNo	Delimiter char (first char is delimiter char) followed by message ending with delimiter

## Command Mode

- /exec/configure

# 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
line	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>

Syntax Description

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

Command Mode

- /exec

## bcm-shell module

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

Syntax Description

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

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
expr	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
num	(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 | ignore } | igp-metric ignore }

## 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
ignore	Ignore AS-Path during bestpath selection
igp-metric	IGP metric for next-hop
ignore	Ignore IGP metric for next-hop during bestpath selection

## Command Mode

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



# 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-ipv4 /exec/configure/router-isis/router-isis-af-ipv6

# 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 [ 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 OSPF interfaces

Command Mode

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

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

# bfd authentication interop

bfd authentication interop | no bfd authentication interop

## Syntax Description

no	Negate a command or set its defaults
bfd	BFD commands
authentication	Configure BFD authentication parameters
interop	Allows keys to be sent in network format to interop with non N3k/N9K switches

## Command Mode

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

## 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
auth_name	auth algorithm
key-id	Key ID to use in BFD frames
key_id_val	Key ID value
key	ASCII SHA1 secret
hex-key	HEX binary SHA1 secret
key_val	SHA1 secret value
h_key_val	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
ifindex	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
intv	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
min_tx_mills	(Optional) TX interval in milliseconds
min_rx	(Optional) Minimum RX interval
min_rx_mills	(Optional) RX interval in milliseconds
multiplier	(Optional) Configure detect multiplier for bfd sessions
int_mult	(Optional) Detect Multiplier

### Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-base /exec/configure/if-port-channel /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
min_tx_mills	(Optional) TX interval in milliseconds
min_rx	(Optional) Minimum RX interval
min_rx_mills	(Optional) RX interval in milliseconds
multiplier	(Optional) Configure detect multiplier for bfd sessions
int_mult	(Optional) Detect Multiplier

### Command Mode

- /exec/configure

## 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
min_tx_mills	TX interval in milliseconds
min_rx	Minimum RX interval
min_rx_mills	RX interval in milliseconds
multiplier	Configure detect multiplier for bfd sessions
int_mult	Detect Multiplier

### Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-base /exec/configure/if-port-channel /exec/configure/if-ma /exec/configure/if-vlan /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
min_tx_mills	TX interval in milliseconds
min_rx	Minimum RX interval
min_rx_mills	RX interval in milliseconds
multiplier	Configure detect multiplier for bfd sessions
int_mult	Detect Multiplier

Command Mode

- /exec/configure

## bfd multihop authentication key-id key

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

### Syntax Description

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

### Command Mode

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



## bfd multihop interval

[no] bfd multihop 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
multihop	Configure BFD Multihop session interval parameters
interval	Configure BFD multihop session interval parameters
min_tx_mills	(Optional) TX interval in milliseconds
min_rx	(Optional) Minimum RX interval
min_rx_mills	(Optional) RX interval in milliseconds
multiplier	(Optional) Configure detect multiplier for bfd multihop sessions
int_mult	(Optional) Detect Multiplier

### Command Mode

- /exec/configure

## bfd multihop interval min\_rx multiplier

bfd multihop interval <min\_tx\_mills> min\_rx <min\_rx\_mills> multiplier <int\_mult> | { no | default } bfd multihop 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
multihop	For Multihop sessions
interval	Configure BFD session interval parameters
min_tx_mills	TX interval in milliseconds
min_rx	Minimum RX interval
min_rx_mills	RX interval in milliseconds
multiplier	Configure detect multiplier for bfd sessions
int_mult	Detect Multiplier

### Command Mode

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

## bfd multihop interval min\_rx multiplier

bfd multihop interval <min\_tx\_mills> min\_rx <min\_rx\_mills> multiplier <int\_mult>

### Syntax Description

bfd	BFD commands
multihop	Configure BFD Multihop session interval parameters
interval	Configure BFD multihop session interval parameters
min_tx_mills	TX interval in milliseconds
min_rx	Minimum RX interval
min_rx_mills	RX interval in milliseconds
multiplier	Configure detect multiplier for bfd multihop sessions
int_mult	Detect Multiplier

### Command Mode

- /exec/configure

## 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 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
int_slow_timer	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
int_startup_timer	Start Up timer in seconds

### Command Mode

- /exec/configure

# bfshell

bfshell

Syntax Description

bfshell	bfshell
---------	---------

Command Mode

- /exec



# bfshell cmd

bfshell cmd <cmd>

Syntax Description

bfshell	bfshell
cmd	Specify command
cmd	Quoted commands to be exec

Command Mode

- /exec

## bfshell module

bfshell module <module>

Syntax Description

bfshell	bfshell
module	Select module
module	Module number

Command Mode

- /exec

## bfshell module cmd

bfshell module <module> cmd <cmd>

Syntax Description

bfshell	bfshell
module	Select module
cmd	Specify command
module	Module number
cmd	Quoted commands to be exec

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
source-uri	Location for restoration to pick up binaries

Command Mode

- /exec/configure/personality

# bind interface

[no] bind interface <interface-name>

## Syntax Description

no	(Optional) Negate a command or set its defaults
bind	Bind the VFC
interface	Bind the VFC to an interface
interface-name	Interface name

## Command Mode

- /exec/configure/if-vfc

## bind mac-address

[no] bind mac-address <mac0>

### Syntax Description

no	(Optional) Negate a command or set its defaults
bind	Bind the VFC
mac-address	Bind the VFC to a MAC Address
mac0	Enter MAC address in dotted hex format

### Command Mode

- /exec/configure/if-vfc

# 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
module	please enter the module number
s0	blink a specific xbar
santa-cruz-range	please enter the xbar number
chassis	blink chassis led
powersupply	blink powersupply led
psnum	powersupply number
fan	blink Fan led
fan_num	fan number

## 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
sap	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
module	(Optional) Enter a valid Module Number
sap	Enable Buffer Dump for a particular sap
sap_num	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
new_id	(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
sap	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
uuid	Enter valid app's UUID
instance	Buffer Instance of the App-Specific SDWrap buffer
buffer-instance	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
uuid	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
min-rollover	(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
max-rollover-per-minute	(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
ip-addr	IP addr of logging server
path	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 parse log-buffer file

```
bloggerd parse log-buffer { file | directory } <uri0> [ dsf_table <uri1> ]
```

### 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!
uri0	Linux path to file/directory (Eg: /bootflash/abc)
dsf_table	(Optional) Enter dsf table file name.
uri1	(Optional) 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!
uri0	Linux path to file (Eg: /bootflash/abc)
sap	SAP of the application which should parse the file
sap-num	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!
uri0	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
server-number	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
server-number	server number value

Command Mode

- /exec/configure/router-bgp

# 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
new_id	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
s0	use [show boot variables] for list of keywords
uri0	Enter module image uri
module	(Optional) Enter module number for the image
module	(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
uri0	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
uri0	Enter Kickstart image uri

## Command Mode

- /exec/configure



## boot mode docker\_cluster

[no] boot mode docker\_cluster [ dhcp <option> ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
boot	Configure boot mode
mode	boot mode
docker_cluster	Turns on/off docker_cluster mode
dhcp	(Optional) Custom DHCP option
option	(Optional) Option, default is 250

### 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
uri0	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
uri0	Enter nxos 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
uri0	Enter nxos 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
uri0	Enter nxos 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 poap enable

{ boot poap enable | no boot poap enable }

## Syntax Description

no	Negate a command or set its defaults
boot	Configure boot variables
poap	feature poap
enable	Enable Perpetual POAP making POAP kick in on reload even with startup-config

## 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
uri0	Enter system image uri

## 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)
id-range	Range(whole-number) of command id(s) to be deleted from switch-profile buffer
id	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)
fromid	Command id of command(s) to be moved in switch-profile buffer
toid	New command id to be assigned in switch-profile buffer

## Command Mode

- /exec/configure





## C Commands

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## cabundle url

[no] cabundle url <source\_uri>

Syntax Description

no	(Optional) Negate a command or set its defaults
cabundle	Configure cabundle
url	Configure cabundle url
source_uri	Select source http URL

Command Mode

- /exec/configure/trustpool

# 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 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

# candidate-paths

[no] candidate-paths

Syntax Description

no	(Optional) Negate a command or set its defaults
candidate-paths	Enter candidate-paths

Command Mode

- /exec/configure/sr/te/pol



# candidate-paths

[no] candidate-paths

Syntax Description

no	(Optional) Negate a command or set its defaults
candidate-paths	Enter candidate-paths

Command Mode

- /exec/configure/sr/te/color

## 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
session-id	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
sec_val	Carrier Transitions delay seconds
msec	Carrier Transitions delay milliseconds
msec_val	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
instance-name	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
device-grp-name	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
port-acl-name	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
port-group-name	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
vlan-grp-name	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
tunnel-num	Tunnel Interface number

Command Mode

- /exec/configure/if-te

# cd

cd <uri0>

Syntax Description

cd	Change current directory
uri0	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)
i0	CDP hold time advertised (in seconds)

Command Mode

- /exec/configure

# cdp timer

[no] cdp timer <i1>

Syntax Description

no	(Optional) Negate a command or set its defaults
cdp	Configure CDP parameters
timer	CDP refresh time interval (in seconds)
i1	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
file-name	.pem certificate filename
host-name	hostname associated with certificate

## Command Mode

- /exec/configure/telemetry

# 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 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 ipv4 distribute

[no] cfs ipv4 distribute

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv4	IPv4 configurations
distribute	Enable CFS distribution over IPv4

Command Mode

- /exec/configure

## cfs ipv4 mcast-address

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

### Syntax Description

no	Negate a command or set its defaults
ipv4	IPv4 configurations
mcast-address	Configure IPv4 multicast address
ip0	Admin scope [239.255/16, 239.192/16-239.251/16]

### Command Mode

- /exec/configure

## cfs ipv6 distribute

[no] cfs ipv6 distribute

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	IPv6 configurations
distribute	Enable CFS distribution over IPv6

Command Mode

- /exec/configure

## cfs ipv6 mcast-address

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

### Syntax Description

no	Negate a command or set its defaults
ipv6	IPv6 configurations
mcast-address	Configure IPv6 multicast address

### Command Mode

- /exec/configure

## 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)
i0	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
chain-id	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	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
s1	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
new-password	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
s2	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

## Command Mode

- /exec

# channel-group

channel-group <channel-id> | no channel-group

Syntax Description

no	Negate a command or set its defaults
channel-group	add to/remove from a port-channel
channel-id	Specify a port-channel number

Command Mode

- /exec/configure/if-fc /exec/configure/if-bay /exec/configure/if-ext /exec/configure/if-gig-ether /exec/configure/if-fcip



# channel-group

channel-group <channel-id> [ mode { active | passive | on } ]

## Syntax Description

channel-group	Configure port channel parameters
mode	(Optional) Specify channeling mode
active	(Optional) Set channeling mode to ACTIVE
passive	(Optional) Set channeling mode to PASSIVE
on	(Optional) Set channeling mode to ON
channel-id	Specify a port-channel number

## Command Mode

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

# channel-group

[no] channel-group [ <channel-id> [ mode { active | passive | on } ] ]

## Syntax Description

no	Negate a command or set its defaults
channel-group	Configure port channel parameters
mode	(Optional) Specify channeling mode
active	(Optional) Set channeling mode to ACTIVE
passive	(Optional) Set channeling mode to PASSIVE
on	(Optional) Set channeling mode to ON
channel-id	(Optional) Specify a port-channel number

## Command Mode

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

# channel-group

[no] channel-group

Syntax Description

no	Negate a command or set its defaults
channel-group	Configure port channel parameters

Command Mode

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

## channel-group force

channel-group <channel-id> force [ mode { active | passive | on } ] | no channel-group <channel-id> force [ mode { active | passive | on } ]

### Syntax Description

no	Negate a command or set its defaults
channel-group	add to/remove from a port-channel
channel-id	Specify a port-channel number
force	Forcefully add a port
mode	(Optional) Specify channeling mode
active	(Optional) Set channeling mode to ACTIVE
passive	(Optional) Set channeling mode to PASSIVE
on	(Optional) Set channeling mode to ON

### Command Mode

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

# channel-group force

channel-group <channel-id> force

## Syntax Description

channel-group	add to/remove from a san-port-channel
channel-id	Specify a san-port-channel number
force	Forcefully add a port

## Command Mode

- /exec/configure/if-fc /exec/configure/if-gig-ether /exec/configure/if-fcip

## channel mode active

channel mode active | no channel mode active

Syntax Description

no	Negate a command or set its defaults
channel	Set the channel mode for the san-port-channel interface
mode	Set the channel mode for the san-port-channel interface
active	configure ACTIVE san-port-channel

Command Mode

- /exec/configure/if-san-port-channel

# checkpoint

[no] checkpoint <chkpoint\_name>

Syntax Description

no	Negate a command or set its defaults
checkpoint	Delete configuration rollback checkpoint
chkpoint_name	Checkpoint name

Command Mode

- /exec

# checkpoint

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

Syntax Description

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

Command Mode

- /exec



# cipher-suite

[no] cipher-suite <suite>

Syntax Description

cipher-suite	Configure Cipher Suite
suite	Cipher Suite options

Command Mode

- /exec/configure/macsec-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
any_or_all	(Optional) Enter match-any or match-all
omap-name	class-map name

### Command Mode

- /exec/configure

## class-map type control-plane

[no] class-map type control-plane [ <opt\_any\_or\_all> ] <map-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
opt_any_or_all	(Optional) Enter match-any or match-all
map-name	Class-map name

### Command Mode

- /exec/configure

## class-map type network-qos

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

Command Mode

- /exec/configure

## class-map type queuing

[no] class-map type queuing { <cmap-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
cmap-dce-name	Queuing class-map name

### Command Mode

- /exec/configure

## class-map type queuing

```
[no] class-map type queuing [ <any_or_all> ] { xxx <cmap-enum-name> | <cmap-dce-name> | zzz
<cmap-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
any_or_all	(Optional) Enter match-any
cmap-enum-name	
xxx	xxx
zzz	zzz
cmap-dce-name	Queuing class-map name
cmap-name-hque	Hierarchical class-map name

### Command Mode

- /exec/configure

# class

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

## Syntax Description

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

## Command Mode

- /exec/configure/pmap

# class

[no] class [ type qos ] <cmmap-name> [ insert-before [ type qos1 ] <cmmap-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
cmmap-name	class map name
insert-before	(Optional) Insert this class before another class
qos1	(Optional) Insert before Qos class
cmmap-name2	(Optional) class map name

## Command Mode

- /exec/configure/policy-map



## class \_\_inline\_\_

[no] class \_\_inline\_\_ [ type psp ] <omap-name-plc> [ insert-before <omap-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
omap-name-plc	class map name
insert-before	(Optional) Insert this class before another class
omap-name2	(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
cmmap-name-nq	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
omap-name-plc	class map name
handle1	Handle1
ppf_id1	PPF ID1
insert-before	(Optional) Insert this class before another class
omap-name2	(Optional) class map name
handle2	(Optional) Handle2
ppf_id2	(Optional) PPF ID2

### Command Mode

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

## class type queuing

```
[no] class type queuing { xxx <omap-enum-name> | <omap-dce-name> | zzz <omap-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
omap-enum-name	
omap-dce-name	Queuing class-map name
omap-name-hque	Hierarchical class-map name
insert-before	(Optional) Insert this class before another class
queuingl	(Optional) Insert before Queuing class
xomap-enum-name	(Optional)

### Command Mode

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

# 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> ] } ] { <nh-label> } } } [ no-ufdm ]
```

## Syntax Description

clear	Reset functions
route	Clear routing information
routing	Clear routing information
vrf	(Optional) Clear per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(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	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
topology-name	(Optional) Topology name
all	Clear all routes
ip-addr	Clear single host route
ip-prefix	Clear single exact match route
nh-addr	(Optional) Clear single path
nh-label	(Optional) Clear single binding label path
nh-interface	(Optional) Interface Name
no-ufdm	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

## 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
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
eigrp-ptag	(Optional) Process tag
neighbors	Clear EIGRP neighbors
*	Clear all EIGRP neighbors
address	IP-EIGRP neighbor address
interface	Interface
soft	(Optional) Soft reset
no-goodbye	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
eigrp-ptag	(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> ] } | { <nh-label> } ] } } [ no-ufdm ]
```

## Syntax Description

clear	Reset functions
route	Clear routing information
routing	Clear routing information
vrf	(Optional) Clear per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
ipv6	Clear IPv6 commands
unicast	(Optional) Clear unicast information
topology	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
topology-name	(Optional) Topology name
all	Clear all routes
nh-label	(Optional) Clear single binding label path
nh-interface	(Optional) Interface Name
no-ufdm	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

## Command Mode

- /exec

## clear aaa client radius statistics

clear aaa client radius statistics <hostname>

Syntax Description

clear	Reset functions
aaa	clear aaa information
client	clear AAA client info
radius	clear radius dynamic authorization client info
statistics	clear radius dynamic authorization client statistics
hostname	IPV4/IPV6 address or DNS name of RADIUS client

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
s0	Enter the username
all	Clear all the blocked users

### Command Mode

- /exec

## clear aaa server radius statistics

clear aaa server radius statistics

Syntax Description

clear	Reset functions
aaa	clear aaa information
server	clear Local AAA server info
radius	clear local radius server info
statistics	clear local radius server statistics

Command Mode

- /exec

## clear access-list counters

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

### Syntax Description

clear	Reset functions
ip_ipv6_mac	(Optional) IP/IPv6/MAC
access-list	Clear access list statistical information
counters	Clear access list counters
name	(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
module	(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
module	(Optional) Slot/module number
instance	(Optional) ASIC Instance Number
instance_number	(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 } } } | { vpv4 |
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	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
lisp	(Optional) LISP EID-prefixes in the non-default VRF
hmm	(Optional) HMM prefix

am	(Optional) AM routes (learned via ARP)
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
server-id	Server ID
all	All BMP Servers

## 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
if0	(Optional)
table	Clear CDP cache on all interfaces
interface1	(Optional) Clear CDP cache on an interface
if1	(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 controller accounting log

clear controller <ctrl-id> accounting log

Syntax Description

clear	Show running system information
controller	Controller command
ctrl-id	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
module	(Optional) Slot/module number
instance	(Optional) ASIC Instance Number
instance	(Optional) ASIC Instance Number in Decimal
__readonly__	(Optional) Read Only
clear_valid	(Optional) Clear

### Command Mode

- /exec

## clear counters interface

clear counters interface <ifindex>

Syntax Description

clear	Reset functions
counters	Clear counters
interface	Clear interface counters
ifindex	Clear interface counters

Command Mode

- /exec

# clear counters interface

clear counters interface <ifindex1>

## Syntax Description

clear	Reset functions
counters	Clear counters
interface	Clear interface counters
ifindex1	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
ifindex	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 crypto ca trustpool timer

clear crypto ca trustpool timer

Syntax Description

clear	Reset functions
crypto	Set crypto settings
ca	Configure certificate authority related information
trustpool	certificate trustpool
timer	clear trustpool timer

Command Mode

- /exec/

## clear debug logfile

clear debug logfile <s0>

Syntax Description

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

Command Mode

- /exec



# clear dot1x all

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

## Syntax Description

clear	Reset functions
dot1x	dot1x configuration commands
all	Authenticator instances on all interfaces
mac	Specific MAC address of the Supplicant
if	target interface
addr	MAC Address

## Command Mode

- /exec

## clear dot1x stats interface

```
{ clear dot1x stats interface <if> } | { clear dot1x stats mac <addr> }
```

### Syntax Description

clear	Reset functions
dot1x	dot1x configuration commands
stats	clear stats
mac	Specific MAC address of the Supplicant
if	target interface
addr	MAC Address

### 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 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
mac-addr	(Optional) MAC Address
interface	(Optional) Clear entries by filtering interface
intf-name	(Optional) Interface name
vlan	(Optional) Clear entries by filtering VLAN
vlan-id	(Optional) VLAN ID
vni	(Optional) Clear entries by filtering VNI
vni-id	(Optional) VNI
ip	(Optional) Clear entries by filtering IP address
ipv6	(Optional) Clear entries by filtering IPv6 address
ip-addr	(Optional) IPV4 host address

### 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
vrf-name	VRF name
vrf-known-name	Known VRF name
node-id	management ip address of this node
mgmt-ip-address	IP address in CIDR format
peer-id	(Optional) management ip address of peer
peer-ip-address	(Optional) IP address in CIDR format

### 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 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
ipaddr	(Optional) Enter IP address of server
host	(Optional) Hostname of server
hostname	(Optional) Enter hostname of server
port	(Optional) Port
portnum	(Optional) Enter port number
vrf	(Optional) vrf context
vrf-name	(Optional) VRF name
vrf-known-name	(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
ipaddr	Enter IP address of server
host	Hostname of server
hostname	Enter hostname of server
port	(Optional) Port
portnum	(Optional) Enter port number
vrf	(Optional) vrf context
vrf-name	(Optional) VRF name
vrf-known-name	(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
groupname	Enter AAA group name of servers

## Command Mode

- /exec

## clear fabricpath isis adjacency

```
clear fabricpath isis [ <l2mp-isis-tag> ] adjacency { * | { <interface> | system-id <sid> } + }
```

### Syntax Description

clear	Reset functions
fabricpath	Clear fabricpath information
isis	Fabricpath IS-IS information
l2mp-isis-tag	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
adjacency	Clear IS-IS adjacency state
*	IS-IS adjacencies on all interfaces
interface	IS-IS interface
system-id	Hostname or System ID
sid	Hostname or System ID (in the form of XXXX.XXXX.XXXX)

### Command Mode

- /exec

## clear fabricpath isis statistics

clear fabricpath isis [ <l2mp-isis-tag> ] statistics \*

### Syntax Description

clear	Reset functions
fabricpath	Clear fabricpath information
isis	Fabricpath IS-IS information
l2mp-isis-tag	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
statistics	Clear IS-IS protocol statistics
*	All IS-IS protocol statistics

### Command Mode

- /exec

## clear fabricpath isis traffic

```
clear fabricpath isis [ <l2mp-isis-tag> ] traffic { * | <interface> }
```

### Syntax Description

clear	Reset functions
fabricpath	Clear fabricpath information
isis	Fabricpath IS-IS information
l2mp-isis-tag	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
traffic	Clear IS-IS traffic information
*	All IS-IS traffic information
interface	IS-IS interface

### 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 fctimer session

clear fctimer session

Syntax Description

clear	Reset functions
fctimer	clear fctimer cfs session
session	abort an existing cfs session

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 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> | all }
```

## Syntax Description

clear	Reset functions
flow	NetFlow information
exporter	Clear NetFlow exporter statistics
name	(Optional) The name of the exporter
exportername	Specify an exporter
all	Clear all exporter statistics

## Command Mode

- /exec

## clear flow rtp details

clear flow rtp details [ ipv4 | ipv6 ]

Syntax Description

clear	Reset functions
flow	NetFlow information
rtp	Clear only rtp cache contents
details	flow details
ipv4	(Optional) Show ipv4 cache entries
ipv6	(Optional) Show ipv6 cache entries

Command Mode

- /exec

## clear forwarding adjacency mpls stats

```
clear forwarding [ 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
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
ipv4	(Optional) ipv4
aif	(Optional) adjacency output interface
anh	(Optional) adjacency next hop
module	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
module	(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
module	(Optional) slot number

### Command Mode

- /exec

# clear forwarding distribution lisp counters all

clear forwarding distribution lisp counters all

## Syntax Description

clear	
forwarding	forwarding
distribution	fib distribution information
lisp	lisp application
counters	counters
all	all vrf's

## Command Mode

- /exec

# clear forwarding events-history

clear forwarding events-history

Syntax Description

clear	Reset functions
forwarding	forwarding
events-history	Events history

Command Mode

- /exec



# clear forwarding inconsistency

clear forwarding [ ipv4 | ip ] [ unicast ] inconsistency

Syntax Description

clear	clear
forwarding	forwarding
ip	(Optional) ipv4
ipv4	(Optional) ipv4
unicast	(Optional) unicast
inconsistency	route inconsistency check

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
vrf-name	(Optional) VRF name
vrf-known-name	(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
gaddr	(Optional) Multicast IPv4 Group Address
source	(Optional) Multicast IPv4 Source specific info
saddr	(Optional) Multicast IPv4 Source Address
module	(Optional) slot
module	(Optional) slot number

### Command Mode

- /exec

# clear forwarding ipv6-l3-route-history

clear forwarding ipv6-l3-route-history

Syntax Description

clear	Reset functions
forwarding	forwarding
ipv6-l3-route-history	IPV6 L3 Route history

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
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
aif	(Optional) adjacency output interface
module	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
module	(Optional) slot number

### Command Mode

- /exec

# clear forwarding ipv6 inconsistency

clear forwarding ipv6 [ unicast ] inconsistency

## Syntax Description

clear	clear
forwarding	forwarding
ipv6	ipv6
unicast	(Optional) unicast
inconsistency	route inconsistency check

## 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
vrf-name	(Optional) VRF name
vrf-known-name	(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
module	(Optional) slot number

### Command Mode

- /exec

## clear forwarding ipv6 route module

```
clear forwarding ipv6 { route } [ vrf <vrf-name> ] { <prefix> | all_routes } module { all_modules | <module> } [ no-urib ]
```

### Syntax Description

clear	
forwarding	forwarding information
ipv6	ipv6
route	route
vrf	(Optional) delete routes for a specific vrf
vrf-name	(Optional) VRF name
all_routes	delete all routes
module	module
all_modules	all module's
module	module number
no-urib	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

### Command Mode

- /exec

# clear forwarding l2-mc-route-history

clear forwarding l2-mc-route-history

Syntax Description

clear	Reset functions
forwarding	forwarding
l2-mc-route-history	L2 MacgRoute history

Command Mode

- /exec



# clear forwarding l2-oiflist-history

clear forwarding l2-oiflist-history

Syntax Description

clear	Reset functions
forwarding	forwarding
l2-oiflist-history	L2 Oiflist history

Command Mode

- /exec

# clear forwarding l2-route-history

clear forwarding l2-route-history

Syntax Description

clear	Reset functions
forwarding	forwarding
l2-route-history	L2 Route history

Command Mode

- /exec

# clear forwarding l2\_prime-oiflist-history

clear forwarding l2\_prime-oiflist-history

Syntax Description

clear	Reset functions
forwarding	forwarding
l2_prime-oiflist-history	L2 Oiflist history

Command Mode

- /exec

## clear forwarding l2mcast info l2-mc-route-history

clear forwarding l2mcast info l2-mc-route-history [ module <num> ]

### Syntax Description

clear	Reset functions
forwarding	forwarding
l2mcast	l2mcast
info	L2mcast Internal Info
l2-mc-route-history	L2 Macg Route history
module	(Optional) Slot
num	(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
num	(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
num	(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
num	(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
num	(Optional) Slot number

### Command Mode

- /exec



# clear forwarding l2rib-route-history

clear forwarding l2rib-route-history

Syntax Description

clear	Reset functions
forwarding	forwarding
l2rib-route-history	L2rib Route history

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 l3-route-history

clear forwarding l3-route-history

Syntax Description

clear	Reset functions
forwarding	forwarding
l3-route-history	L3 Route 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
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known vrf name
vrf-all	(Optional) Display information for all VRFs
table	(Optional) display info per vpn-id
table_id	(Optional) table number
label-space	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
label-space-id	(Optional) label space id
label	(Optional) mpls labels
label	(Optional) mpls label value
prefix	(Optional) Labels for single exact match route
module	(Optional) slot
module	(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
module	(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
module	(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
module	(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
module	(Optional) slot number

## Command Mode

- /exec

# clear forwarding oiflist-history

clear forwarding oiflist-history

Syntax Description

clear	Reset functions
forwarding	forwarding
oiflist-history	Oiflist history

Command Mode

- /exec

## clear forwarding route module

```
clear forwarding [ ip | ipv4 ] { route } [ vrf <vrf-name> ] { <prefix> | all_routes } module { all_modules | <module> } [ no-urib ]
```

### Syntax Description

clear	
forwarding	forwarding information
ip	(Optional) ipv4
ipv4	(Optional) ipv4
route	route
vrf	(Optional) delete routes for a specific vrf
vrf-name	(Optional) VRF name
prefix	delete specific prefix
all_routes	delete all routes
module	module
all_modules	all module's
module	module number
no-urib	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

### 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
module	(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 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
module	(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
module	(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
module	(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
module	(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
module	(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
module	(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
module	(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
module	(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
module	(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
module	(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
module	(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
module	(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
mname	(Optional) Netflow Flow Monitor Name
profile	(Optional) Flow Profile
prof_id	(Optional) Netflow Profile ID
vlan	(Optional) Vlan commands
vlan_id	(Optional) VLAN ID 1-4094
interface	(Optional) Interface
interface	(Optional) Interface Name
instance	(Optional) Instance
inst	(Optional) Earl Instance
force-export	(Optional) Force to export data to collector
module	(Optional) Line card module
num	(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
mname	(Optional) Netflow Flow Monitor Name
profile	(Optional) Flow Profile
prof_id	(Optional) Netflow Profile ID
vlan	(Optional) Vlan commands
vlan_id	(Optional) VLAN ID 1-4094
interface	(Optional) Interface
interface	(Optional) Interface Name
instance	(Optional) Instance
inst	(Optional) Earl Instance
force-export	(Optional) Force to export data to collector
module	(Optional) Line card module
num	(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
mname	(Optional) Netflow Flow Monitor Name
profile	(Optional) Flow Profile
prof_id	(Optional) Netflow Profile ID
vlan	(Optional) Vlan commands
vlan_id	(Optional) VLAN ID 1-4094
instance	(Optional) Instance
inst	(Optional) Earl Instance
force-export	(Optional) Force to export data to collector
module	(Optional) Line card module
num	(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
mname	(Optional) Netflow Flow Monitor Name
profile	(Optional) Flow Profile
prof_id	(Optional) Netflow Profile ID
vlan	(Optional) Vlan commands
vlan_id	(Optional) VLAN ID 1-4094
interface	(Optional) Interface
interface	(Optional) Interface Name
instance	(Optional) Instance
inst	(Optional) Earl Instance
force-export	(Optional) Force to export data to collector
module	(Optional) Line card module
num	(Optional) slot number

### 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
module	(Optional) Specify a module number

## Command Mode

- /exec

# clear hardware profile packet-drop file\_instance

clear hardware profile packet-drop file\_instance

## Syntax Description

clear	Reset functions
hardware	Change hardware usage settings
profile	Profile settings
packet-drop	Packet Drop parameters
file_instance	TCB File instances

## 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
value	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
state-history	Clear Groups' state history
interface	(Optional) Groups on this interface
interface-id	(Optional) Interface
group	(Optional) Group number
group-id	(Optional) Group Number

### 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
i0	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 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

clear	AMT clear commands
amt	AMT show commands
ip	Display IP information
tunnel	Display tunnel information
vrf	(Optional) Display information for VRF
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
address4	(Optional) IP address of tunnel endpoint
port	(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
interface	(Optional) ARP interface
ip-address	(Optional) IP address
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(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 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 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
vlan-id	VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19

### Command Mode

- /exec

## clear ip arp l2 statistics interface

clear ip arp l2 statistics interface { <interface> | all }

Syntax Description

clear	Reset functions
ip	Clear IP commands
arp	Clear ARP table and statistics
l2	Clear ARP L2 port level info
statistics	Clear ARP statistics
interface	ARP interface
interface	ARP interface
all	Clear ARP statistics for all interface

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
interface	(Optional) ARP interface
multihoming-statistics	Display ARP Multihoming stats
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Clear ARP Multihoming statistics for all vrfs

### 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
interface	(Optional) ARP interface
statistics	Clear ARP statistics
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(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 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
intf	(Optional) interface
serverip	(Optional) Helper address
ip-addr-val	(Optional) IP address
use-vrf	(Optional) helper address VRF membership
vrf-name	(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
vlan-id	(Optional) VLAN id
mac	(Optional) MAC address
mac-addr	(Optional) MAC address
ip	(Optional) IP address
ip-addr	(Optional) IP address
interface	(Optional) interface
interface-id	(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
vlan-id	(Optional) VLAN id
interface	(Optional) input interface
intf	(Optional) interface

### 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
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
eigrp-ptag	(Optional) Process tag
accounting	Clear IP-EIGRP accounting statistics

### 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
eigrp-ptag	(Optional) Process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
redistribution	Clear EIGRP redistributed information

### 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
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
eigrp-ptag	(Optional) Process tag
traffic	Clear IP-EIGRP traffic statistics

### 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
group-prefix	Clear all routes within the Group prefix
group	Clear all routes matching the Group
source	(Optional) Clear a (S,G) route
vrf	(Optional) Clear information for particular VRF
vrf-name	(Optional) VRF name
vrf-known-name	(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
interface	(Optional) Specific interface only

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
vlan	Specify VLAN
bridge-domain	Clear explicit tracking information for BD
bdid	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
group-prefix	Group prefix to clear
group	Group address to clear
source	(Optional) Source address to clear
interface	(Optional) Specify interface to clear group state
if-name	(Optional) Interface name to clear
vlan	Clear information for VLAN
vlan	Specify the VLAN number
bridge-domain	Clear information for BD
bdid	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
vlan	Specify the VLAN number
bridge-domain	Clear for a specific BD
bdid	Specify the BD number
if-name	Interface name to clear
purge	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

### 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
vlan	(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
vlan	Specify VLAN
bridge-domain	Clear BD statistics
bdid	Specify BD
all	All VLAN/BDs

## 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
interface	(Optional) Clear IP statistics for interface

### 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
eid	(Optional) Clear mapping for IP destination EID
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(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
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
eid-prefix	(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
vrf-name	(Optional) VRF name
vrf-known-name	(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 } | vpv4 unicast } dampening [ <ip-prefix>
| <ip-addr> [ <ip-mask> ] ] } | { clear bgp [ vrf { <vrf-name> | <vrf-known-name> |
ALL_VRFS_012345678901234 } ] ipv6 { unicast | multicast } | vpv6 unicast } dampening [ <ipv6-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
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
bgp	Clear BGP sessions
mbgp	Clear MBGP sessions
dampening	Clear route flap dampening information
ip-prefix	(Optional) Clear route flap dampening for prefix
ip-addr	(Optional) Clear route flap dampening for one network
ip-mask	(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

- /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 [ <ip6-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
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
ip	Clear IP commands
bgp	Clear BGP sessions
mbgp	Clear MBGP sessions
flap-statistics	Clear flap statistics
ip-prefix	(Optional) Clear flap statistics for one prefix
ip-addr	(Optional) Clear flap statistics for one network
ip-mask	(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

regexp-str	(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
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
bgp	Clear BGP sessions
mbgp	Clear MBGP sessions
neighbor-id	IP address of the neighbor to clear
prefix-id	Clear all neighbors matching the prefix
*	Clear all neighbors (Should be a * character)
asn	Clear all neighbors in an AS
peer-template	Clear all neighbors in a peer-template
peer-template-name	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 mroute

```
clear ip mroute [ repopulate ] { { <all> [ shared-tree | source-tree ] } | { <group-prefix> [ shared-tree | source-tree ] } } { { <group> [ <source> | shared-tree | source-tree ] } } [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

### Syntax Description

clear	Reset functions
ip	Clear IP commands
mroute	Clear multicast routing table
repopulate	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
all	Clear all routes
group-prefix	Clear all routes within the Group prefix
group	Clear all routes matching the Group
source	(Optional) Clear a (S,G) route
shared-tree	(Optional) Clear the (*,G) route associated with the group
source-tree	(Optional) Clear all (S,G) routes associated with the group
vrf	(Optional) Clear information for particular VRF
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs

### Command Mode

- /exec



## clear ip mroute statistics

```
clear ip mroute statistics { <all> | <group-prefix> | <group> [ <source> ] } [ vrf { <vrf-name> |
<vrf-known-name> | all } ]
```

### Syntax Description

clear	Reset functions
ip	Clear IP commands
mroute	Clear multicast routing table
statistics	Clear statistics of multicast route
all	Clear all routes
group-prefix	Clear all routes within the Group prefix
group	Clear all routes matching the Group
source	(Optional) Clear a (S,G) route
vrf	(Optional) Clear information for particular VRF
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs

### 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
peer-address	IP address of MSDP peer
vrf	(Optional) Clear information for particular VRF
vrf-name	(Optional) VRF name
vrf-known-name	(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
peer-address	IP address of MSDP peer for SA policy
in	Input policy
out	Output policy
vrf	(Optional) Clear information for particular VRF
vrf-name	(Optional) VRF name
vrf-known-name	(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
group-prefix	Clear all routes within the Group prefix
group	Clear all routes matching the Group
source	(Optional) Clear a (S,G) route
vrf	(Optional) Clear information for particular VRF
vrf-name	(Optional) VRF name
vrf-known-name	(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
peer-address	(Optional) IP address of MSDP peer
vrf	(Optional) Clear information for particular VRF
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name

### Command Mode

- /exec

## clear ip nat-alias address

```
clear ip nat-alias { address <ipaddress> | all }
```

### Syntax Description

clear	Reset functions
ip	Clear ip counters
nat-alias	Clear NAT alias
address	alias address
ipaddress	NAT alias ip address
all	Delete all NAT alias address

### Command Mode

- /exec

# clear ip nat statistics

clear ip nat statistics

Syntax Description

clear	Reset functions
ip	Clear ip counters
nat	IP NAT information
statistics	Translation statistics

Command Mode

- /exec

## clear ip nat translation

```
clear ip nat translation { entry-id <xlation_id> | 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> } }
```

### Syntax Description

clear	Reset functions
ip	Clear ip counters
nat	Clear NAT
translation	Clear dynamic translation
entry-id	Dynamic xlation id
xlation_id	Dynamic xlation id
all	Delete all dynamic translations
inside	Inside addresses
insideGlobalIP	Inside global IP address
insideLocalIP	Inside local IP address
outside	(Optional) Outside addresses
outsideLocalIP	(Optional) Outside local IP address
outsideGlobalIP	(Optional) Outside global IP address
tcp	Transmission Control Protocol
udp	User Datagram Protocol
icmp	Internet Control Message Protocol
insideGlobal-port	Inside global TCP/UDP/ICMP port address
insideLocal-port	Inside local TCP/UDP/ICMP port address
outsideLocal-port	Outside local TCP/UDP port/ICMP address
outsideGlobal-port	Outside global TCP/UDP/ICMP port address

### 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
tag	(Optional) Process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
neighbor	Clear one or more neighbors
*	Clear all neighbors
neighborid	Source IP address, or router ID of the neighbor
interface	Interface to clear all neighbors on

### 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
tag	(Optional) Process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
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
tag	(Optional) Process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
statistics	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
tag	(Optional) Process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
traffic	Clear packet counters
interface	(Optional) Interface to clear all traffic on

## 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
interface	(Optional) Interface name to clear
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 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	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
vrf-name	(Optional) VRF name
vrf-known-name	(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
interface	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
group-prefix	Clear all routes within the Group prefix
group	Clear all routes matching the Group
source	(Optional) Clear a (S,G) route
vrf	(Optional) Clear information for particular VRF
vrf-name	(Optional) VRF name
vrf-known-name	(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
vrf-name	(Optional) VRF name
vrf-known-name	(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)
as	Autonomous system number
isis	Intermediate-to-intermediate (ISIS)
ospf	Open Shortest Path First (OSPFv2)
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 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
interface	(Optional) RIP interface
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 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	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name

## 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
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
port	(Optional) UDP port number of gateway

## 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
intf	(Optional) interface
server-ip	(Optional) Server address
use-vrf	(Optional) Server address VRF membership
vrf-name	(Optional) VRF name
interface	(Optional) Destination interface for the server address
dest-interface	(Optional) Destination interface

### 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
interface	(Optional) Interface to clear statistics for

## Command Mode

- /exec

## clear ipv6 icmp l2 statistics interface

```
clear ipv6 { icmp | nd } l2 statistics interface { <interface> | all }
```

### Syntax Description

clear	Reset functions
ipv6	Display IPv6 information
icmp	Display ICMPv6 information
nd	ICMPv6 Neighbor Discovery commands
interface	Interface for which l2 stats to be cleared
l2	Clear ND info for layer-2 interface
statistics	Clear ND statistics for layer 2 interface
all	Clear ND stats for all layer 2 interface
interface	interface

### Command Mode

- /exec

## clear ipv6 icmp nd local-proxy stats

```
clear ipv6 icmp nd local-proxy stats { all | { { <vlan-interface> } [ <interface> ] } }
```

### Syntax Description

clear	Reset functions
ipv6	Display IPv6 information
icmp	Display ICMPv6 information
nd	ICMPv6 Neighbor Discovery commands
local-proxy	show nd local proxy stats
stats	statistics
all	show stats for all vlan
vlan-interface	vlan interface
interface	(Optional) interface

### 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
interface	(Optional) Interface to clear statistics for

### 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
eid6	(Optional) Clear mapping for IPv6 destination EID
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(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
vrf-name	(Optional) VRF name
vrf-known-name	(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
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs

### Command Mode

- /exec



## clear ipv6 mroute

```
clear ipv6 mroute { { <all> [ shared-tree | source-tree ] } | { <group-prefix> [ shared-tree | source-tree ] } | {
<group> [ <source> | shared-tree | source-tree ] } } [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

### Syntax Description

clear	Reset functions
ipv6	Clear IPv6 commands
mroute	Clear multicast routing table
all	Clear all routes
shared-tree	(Optional) Clear the (*,G) route associated with the group
source-tree	(Optional) Clear all (S,G) routes associated with the group
vrf	(Optional) Clear information for particular VRF
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs

### 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
intf	(Optional) Clear cache entries for given interface
interface	(Optional) Clear cache entries for given interface
force-delete	(Optional) Clear the cache entries without refresh
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 neighbor binding

clear ipv6 neighbor binding [ mac <macaddr> | address { <ipv6-addr> | all } | policy <policy-name> |

### Syntax Description

clear	Reset functions
ipv6	IPv6
macaddr	(Optional) 48-bit hardware address
policy-name	(Optional) Snooping Policy name to be cleared

### 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
interface	(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
interface	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
vrf-name	(Optional) VRF name
vrf-known-name	(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
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs

## Command Mode

- /exec

## clear ipv6 rguard statistics

clear ipv6 rguard statistics

Syntax Description

clear	Reset functions
ipv6	IPv6
rguard	IPV6 rguard
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> | vlan <vlanid> } ]

Syntax Description

clear	Reset functions
ipv6	IPv6
intf	(Optional) interface
vlanid	(Optional) VLAN ID

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 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	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
vrf-name	(Optional) VRF name
vrf-known-name	(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
isis-tag	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
adjacency	Clear IS-IS adjacency state
*	IS-IS adjacencies on all interfaces
interface	IS-IS interface
system-id	Hostname or System ID
sid	Hostname or System ID (in the form of XXXX.XXXX.XXXX)

### 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
isis-tag	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
redistribution	Clear IS-IS redistributed information

## 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
isis-tag	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
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
isis-tag	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
statistics	Clear IS-IS protocol statistics
*	All IS-IS protocol statistics
interface	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
isis-tag	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
traffic	Clear IS-IS traffic information
*	All IS-IS traffic information
interface	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
service-name	ITD service-name

## Command Mode

- /exec

## clear l2dbg

```
clear l2dbg { macdb | portdb | rvtepdb | dme-events }
```

Syntax Description

clear	Clear
l2dbg	L2 debug databases
macdb	L2 debug MACDB
portdb	L2 debug PORTDB
rvtepdb	L2 debug RVTEPDB
dme-events	L2 debug ObjectstoreDB

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 lacp counters

clear lacp counters [ interface <if0> ]

### Syntax Description

clear	Reset functions
lacp	LACP protocol
counters	LACP counters
interface	(Optional) Specify a port-channel
if0	(Optional)

### Command Mode

- /exec

## clear lcnd stats interface

clear lcnd stats interface <interface>

### Syntax Description

clear	clear
lcnd	lcnd
stats	statistics
interface	get interface related stats at lcnd level
interface	Interface name to display

### 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
host0	DNS name or IP address
__readonly__	(Optional)
server_state	(Optional) Show state of server
clock_time	(Optional) Show clock time in terms of hours, minutes and seconds
monitoring_statistics	(Optional) Monitoring Statistics
time_in_pstate	(Optional) Time in previous state
ndead	(Optional) Number of times dead
tt_in_dstate	(Optional) Total time in dead state
auth_statistics	(Optional) Authentication Statistics
acct_statistics	(Optional) Accounting Statistics
auth_failed_transactions	(Optional) Authentication: Failed transactions
auth_succ_transactions	(Optional) Authentication: Successful transactions
auth_req_sent	(Optional) Authentication: Requests sent
auth_req_timedout	(Optional) Authentication: Requests timedout
auth_resp_no_match	(Optional) Authentication: Responses with no matching requests
auth_resp_not_processed	(Optional) Authentication: Responses not processed
auth_resp_error	(Optional) Authentication: Responses containing errors
acct_failed_transactions	(Optional) Accounting: Failed transactions
acct_succ_transactions	(Optional) Accounting: Successful transactions



acct_req_sent	(Optional) Accounting: Requests sent
acct_req_timedout	(Optional) Accounting: Requests timedout
acct_resp_no_match	(Optional) Accounting: Responses with no matching requests
acct_resp_not_processed	(Optional) Accounting: Responses not processed
acct_resp_error	(Optional) Accounting: Responses containing errors

## 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
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
instance-id	(Optional) Clear entry for specific instance-ID
iid	(Optional) 24-bit instance-ID value
eid-prefix	(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
dyn-eid	IPv4 address of dynamic-EID entry
dyn-eid-name	Clear entries discovered for a dynamic-EID range
vrf	(Optional) Clear dynamic-EID entries for vrf
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name

### 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
addr	(Optional) IPv4 locator address of PITR
vrf	(Optional) Clear proxy-itr state for vrf
vrf-name	(Optional) VRF name
vrf-known-name	(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
site-name	Clear registration data for a single site
instance-id	(Optional) Clear registration for a single instance-id within a site
iid	(Optional) 24-bit instance-ID value
vrf	(Optional) Clear site entries for vrf
vrf-name	(Optional) VRF name
vrf-known-name	(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
if0	Enter interface

## Command Mode

- /exec

# clear logging dropcount

clear logging dropcount

Syntax Description

clear	Reset functions
logging	Clear logging information
dropcount	Clear logging dropcounter

Command Mode

- /exec

# clear logging ip access-list cache

clear logging ip access-list cache

Syntax Description

clear	Reset functions
logging	Clear logging information
ip	IP configuration
access-list	Access-list
cache	logging

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 [ { 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
module	(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 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
module	(Optional) Enter module number
counter-stats	(Optional) Clear OBFL counter statistics
dc3_options	(Optional) dc3 options

## 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
id	(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 mac address-table dynamic

```
clear mac address-table dynamic [ local ] [ address <mac-addr> | interface <interface-name> ] [ multicast-entries
[ not-notified ] ] [ vlan <vlan-id> | vni <vni-id> | peer-ip <peer-ipv4> ] [ instance <instance> ] [ __readonly__
<info_str> ]
```

### Syntax Description

clear	Clear
mac	MAC configuration commands
address-table	MAC Address Table
dynamic	clear dynamic entries from the Layer2 Forwarding Table
local	(Optional) clear MAC Entries Learned Locally and Not on the Overlay/VXLAN
address	(Optional) address
mac-addr	(Optional) MAC Address
interface	(Optional) Interface
interface-name	(Optional) Interface name
vlan	(Optional) VLAN
vlan-id	(Optional) VLAN ID
vni	(Optional) VXLAN Network Identifier
vni-id	(Optional) VXLAN Network Identifier
peer-ip	(Optional) VXLAN Peer IP Address
peer-ipv4	(Optional) VXLAN Peer IP Address
instance	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
instance	(Optional) ASIC Instance Number
multicast-entries	(Optional) clear all dynamically learnt multicast entries
not-notified	(Optional) entries that exceed the hardware notification limit
__readonly__	(Optional)
info_str	(Optional) Information

### 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
ifname	(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
ifname	(Optional) Interface list

### Command Mode

- /exec

# clear mpls access-list counters

clear mpls access-list counters [ <name> ]

## Syntax Description

clear	Reset functions
mpls	mpls keyword
access-list	Clear access list statistical information
counters	Clear access list counters
name	(Optional) List name

## 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
interface	(Optional) Interface chosen to clear statistics
all	(Optional) All interfaces

### 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 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
label-value	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 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 mts dedup\_stats uuid app\_update\_id

clear mts dedup\_stats uuid <i0> app\_update\_id <update\_id>

### Syntax Description

clear	Reset functions
mts	MTS statistics
dedup_stats	dedup statistics
uuid	application uuid
app_update_id	application specific update_id bits 47-0
i0	enter the application uuid
update_id	enter the dedup application update id(48 bits)

### Command Mode

- /exec

# clear mts message statistics

clear mts message statistics

Syntax Description

clear	Reset functions
mts	MTS statistics
message	mts messages
statistics	mts message statistics

Command Mode

- /exec

## clear nbm flows statistics

```
clear nbm flows statistics [ source <source-ip> [ group <group-ip> ] | group <group-ip> [ source <source-ip> ] ] [ vrf { <vrf-name> | <nbm-vrf-known-name> | all } ]
```

### Syntax Description

clear	Clear
nbm	Non blocking Multicast
flows	NBM flows
statistics	Clear nbm flow statistics
source	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
source-ip	(Optional) Source IP address value
group	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
group-ip	(Optional) Multicast group address value
vrf	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
all	(Optional) Display all VRFs
vrf-name	(Optional) VRF name
nbm-vrf-known-name	(Optional) NBM VRF Name

### 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
handle	specify session handle
all	clear stats for all traceroute sessions
force	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

## 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
handle	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
handle	specify session handle
all	clear stats for all pathtrace sessions
force	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

### 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 peer-ip

```
clear nve peer-ip <peer_ipv4>
```

## Syntax Description

clear	Clear
nve	Configure NVE information
peer-ip	peer ip
peer_ipv4	peer ip

## 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> | <addr-v6> } interface <nve-if> counters
```

### Syntax Description

clear	Reset functions
nve	Configure NVE information
peers	NVE Peer
addr	Remote Peer IP Address
counters	Counters
interface	Interface
nve-if	NVE interface

### Command Mode

- /exec

## clear nve peers vni interface counters

clear nve peers { { <addr> | <addr-v6> } | all } vni { <vni-id> | all } interface <nve-if> counters

### Syntax Description

clear	Reset functions
nve	Configure NVE information
peers	NVE Peer
addr	Remote Peer IP Address
all	Clear counters for all peers/VNIs
vni	Virtual Network Identifier
vni-id	Virtual Network Identifier
counters	Counters
interface	Interface
nve-if	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
vni-id	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 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
switch-id	Logical switch-id
controller	Controller
all	All

## 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
tag	(Optional) Process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
neighbor	Clear one or more neighbors
*	Clear all neighbors
neighborid	Source IP address, or router ID of the neighbor
interface	Interface to clear all neighbors on

### 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
tag	(Optional) Process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
statistics	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
tag	(Optional) Process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
traffic	Clear traffic counters
interface	(Optional) Interface to clear all traffic on

### Command Mode

- /exec

## clear peer-info interface vsan

clear peer-info interface <iface> vsan <vsan\_id>

Syntax Description

clear	Reset functions
peer-info	clear rmid information
interface	clear peer rmid information for a port in a vsan
iface	
vsan	clear peer rmid information
vsan_id	Enter VSAN number

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
uuid	(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
interface	(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
service-name	PLB service name

## 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
mac-address	48 bit mac address
vlan	vlan information
vlanid	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
if_index	ethernet
vlan	(Optional) vlan information
vlanid	(Optional) vlan id. Enter a value between 1 and 4094

### 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 <s0> ]

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
s0	(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
i0	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
e-vdc2	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
e-vdc2	Enter Virtual Device Context <vdc-id>
log	Delete log files
pid	Delete log file of a specific process
i1	pid of the process

### Command Mode

- /exec

# clear ptp corrections

clear ptp corrections

Syntax Description

clear	Reset functions
ptp	Precision Time Protocol (IEEE 1588) Subsystem
corrections	Clear history of PTP corrections

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	Clear PTP packet counters
interface	Clear for specific interface
all	Clear for all interfaces
if0	

### 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 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
iface-list	(Optional) List of Interfaces
vlan	(Optional) 802.1Q vlan
vlan-list	(Optional) List of vlan ids
input	(Optional) Input Service policy
output	(Optional) Output Service policy
type	(Optional) Policy type
qos-or-q	(Optional)

### 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
if_list	(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
if_list	List of interfaces

### 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
host0	DNS name or IP address
__readonly__	(Optional)
server_state	(Optional) Show state of server
clock_time	(Optional) Show clock time in terms of hours, minutes and seconds
monitoring_statistics	(Optional) Monitoring Statistics
time_in_pstate	(Optional) Time in previous state
ndead	(Optional) Number of times dead
tt_in_dstate	(Optional) Total time in dead state
auth_statistics	(Optional) Authentication Statistics
acct_statistics	(Optional) Accounting Statistics
auth_failed_transactions	(Optional) Authentication: Failed transactions
auth_succ_transactions	(Optional) Authentication: Successful transactions
auth_req_sent	(Optional) Authentication: Requests sent
auth_req_timedout	(Optional) Authentication: Requests timedout
auth_resp_no_match	(Optional) Authentication: Responses with no matching requests
auth_resp_not_processed	(Optional) Authentication: Responses not processed
auth_resp_error	(Optional) Authentication: Responses containing errors
acct_failed_transactions	(Optional) Accounting: Failed transactions
acct_succ_transactions	(Optional) Accounting: Successful transactions

acct_req_sent	(Optional) Accounting: Requests sent
acct_req_timeout	(Optional) Accounting: Requests timeout
acct_resp_no_match	(Optional) Accounting: Responses with no matching requests
acct_resp_not_processed	(Optional) Accounting: Responses not processed
acct_resp_error	(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
route-map-name	Route-map name
route-map-cfg-name	Known route-map name
pbr-statistics	Statistics for policy based routing

### Command Mode

- /exec

## clear routing ip multicast mfdm pending counters

clear routing ip multicast mfdm pending counters [ vrf { <vrf-name> | <vrf-known-name> | all } ]

### Syntax Description

clear	Reset functions
routing	Clear routing information
ip	Clear IP commands
multicast	Clear MRIB information
mfdm	Clear MFDM information
pending	Clear MFDM pending information
counters	MFDM counters
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 routing ip multicast rpf-source retry-cache

clear routing ip multicast rpf-source retry-cache [ vrf { <vrf-name> | <vrf-known-name> | all } ]

### Syntax Description

clear	Reset functions
routing	Clear routing information
ip	Clear IP commands
multicast	Clear MRIB information
rpf-source	Clear RPF-Source information
retry-cache	Clear retry-cache information
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 routing ipv6 multicast

```
clear routing ipv6 multicast { <all> | <group-prefix> | <group> [ <source> ] } [ vrf { <vrf-name> |
<vrf-known-name> | all } ]
```

### Syntax Description

clear	Reset functions
routing	Clear routing information
ipv6	Clear IPv6 commands
multicast	Clear multicast routing table
all	Clear all routes
vrf	(Optional) Clear information for particular VRF
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs

### Command Mode

- /exec

# clear routing multicast

```
clear routing [ ip | ipv4 ] multicast { <all> | <group-prefix> | <group> [ <source> ] } [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

## Syntax Description

clear	Reset functions
routing	Clear routing information
ip	(Optional) Clear IP commands
ipv4	(Optional) Clear IP commands
multicast	Clear multicast routing table
all	Clear all routes
group-prefix	Clear all routes within the Group prefix
group	Clear all routes matching Group
source	(Optional) Clear a (S,G) route
vrf	(Optional) Clear information for particular VRF
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs

## 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 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
interface-id	(Optional) Specify an interface as a target for the command
vlan	(Optional) VLAN Switch Spanning Trees
bridge-domain	(Optional) Bridge-Domain Switch Spanning Trees
vlan-id	(Optional) vlan range, Example: 1,3-5,7,9-11
bd-id	(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
interface-id	(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 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 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
host0	DNS name or IP address
__readonly__	(Optional)
server_state	(Optional) Show state of server
clock_time	(Optional) Show clock time in terms of hours, minutes and seconds
monitoring_statistics	(Optional) Monitoring Statistics
time_in_pstate	(Optional) Time in previous state
ndead	(Optional) Number of times dead
tt_in_dstate	(Optional) Total time in dead state
auth_statistics	(Optional) Authentication Statistics
autho_statistics	(Optional) Authorization Statistics
acct_statistics	(Optional) Accounting Statistics
auth_failed_transactions	(Optional) Authentication: Failed transactions
auth_succ_transactions	(Optional) Authentication: Successful transactions
auth_req_sent	(Optional) Authentication: Requests sent
auth_req_timedout	(Optional) Authentication: Requests timedout
auth_resp_no_match	(Optional) Authentication: Responses with no matching requests
auth_resp_not_processed	(Optional) Authentication: Responses not processed
auth_resp_error	(Optional) Authentication: Responses containing errors

autho_failed_transactions	(Optional) Authorization: Failed transactions
autho_succ_transactions	(Optional) Authorization: Successful transactions
autho_req_sent	(Optional) Authorization: Requests sent
autho_req_timedout	(Optional) Authorization: Requests timedout
autho_resp_no_match	(Optional) Authorization: Responses with no matching requests
autho_resp_not_processed	(Optional) Authorization: Responses not processed
autho_resp_error	(Optional) Authorization: Responses containing errors
acct_failed_transactions	(Optional) Accounting: Failed transactions
acct_succ_transactions	(Optional) Accounting: Successful transactions
acct_req_sent	(Optional) Accounting: Requests sent
acct_req_timedout	(Optional) Accounting: Requests timedout
acct_resp_no_match	(Optional) Accounting: Responses with no matching requests
acct_resp_not_processed	(Optional) Accounting: Responses not processed
acct_resp_error	(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 user

clear user <s0>

## Syntax Description

clear	Reset functions
user	Logout a particular user
s0	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
name	(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
vlan-id	(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
vpc_num	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
last-clear-time	(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
intf_num	(Optional)
vr	(Optional) [1-255] clear virtual router statistics
vr_id	(Optional)

### 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
interface_num	(Optional) Interface
group_num	(Optional) Group number
opt_v4_or_v6	(Optional) Enter ipv4 or ipv6

### Command Mode

- /exec

## clear vtp counters

clear vtp counters

Syntax Description

clear	Reset functions
vtp	Clear VTP items
counters	Clear VTP counters

Command Mode

- /exec



# cli alias check strict

```
{ cli alias check { strict | loose } | no cli alias check }
```

## Syntax Description

no	Negate a command or set its defaults
cli	Configure CLI commands
alias	Define an alias
check	Validate alias name against existing keyword
strict	Check for exact and partial match keyword
loose	Check for exact match only

## Command Mode

- /exec/configure

## 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
s0	Alias command
line	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 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
s0	Variable name
line	Variable value

### Command Mode

- /exec/configure

# 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
s0	Variable name
line	Variable value

### 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

## client vrf management default

```
{ { [ no ] client <hostname> { { vrf { management | default | <vrf_name> } [ server-key { 0 <s0> | 7 <s1> | <s2> } ] } | { server-key { 0 <s0> | 7 <s1> | <s2> } [ vrf { management | default | <vrf_name> } ] } } } | { no client <hostname> } | { no client <hostname> vrf } | { no client <hostname> server-key } }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
client	Specify a RADIUS client
hostname	IPV4/IPV6 address or DNS name of RADIUS client
vrf	vrf to be used to contact RADIUS client
management	management vrf
default	default vrf
vrf_name	name of the vrf
server-key	(Optional) Encryption key shared with the radius client
0	(Optional) RADIUS shared secret(clear text)
s0	(Optional) RADIUS shared secret(clear text)
7	(Optional) RADIUS shared secret(encrypted)
s1	(Optional) RADIUS shared secret(encrypted)
s2	(Optional) RADIUS shared secret(clear text)(Max Size 63)

### Command Mode

- /exec/configure/locsvr-da-radius



## clock-tolerance ntp oneway absolute

```
{ { no | default } clock-tolerance | clock-tolerance ntp oneway { absolute <abs-value> | percent <percentage> } }
```

### Syntax Description

no	
clock-tolerance	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
abs-value	Number in microseconds
percentage	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	(Optional) vdc
vdc-id	(Optional) 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
i11	Enter the year (no abbreviation)
September	Month of the year
i12	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
s0	Name of time zone in summer, such as PDT, CDT, EDT, etc..
i0	(Optional) Week number to start (first week=1, last week=5)
s1	(Optional) Weekday to start
s2	(Optional) Month to start
s3	(Optional) HH:MM Time to start
i1	(Optional) Week number to end (first week=1, last week=5)
s4	(Optional) Weekday to end
s5	(Optional) Month to end
s6	(Optional) HH:MM Time to end
i2	(Optional) Offset to add in minutes
timezone	Configure time zone
s7	Name of time zone, such as PST, MST, CST, EST, etc..
i3	Hours offset from UTC
i4	Minutes offset from UTC

### 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
ip-cluster-id	Cluster-id as an IP address
int-cluster-id	Cluster-id as a 32 bit quantity

## Command Mode

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

# collect

[no] collect { ingress queue depth | ingress queue drops }

## Syntax Description

collect	Stats type to be configured
ingress	Ingress counter
queue	Queue statistics
depth	Depth
drops	Drops

## Command Mode

- /exec/configure/config-ssx-record

# collect

[no] collect { egress queue depth | egress queue drops | egress queue microburst | egress queue peak }

## Syntax Description

collect	Stats type to be configured
egress	Egress counter
queue	Queue statistics
depth	Depth
drops	Drops
microburst	Microburst records
peak	Buffer peak counters

## Command Mode

- /exec/configure/config-ssx-record

# collect

[no] collect { egress buffer depth }

## Syntax Description

collect	Stats type to be configured
egress	Egress counter
buffer	Buffer statistics
depth	Depth

## Command Mode

- /exec/configure/config-ssx-record

# collect

[no] collect { egress pool-group depth }

## Syntax Description

collect	Stats type to be configured
egress	Egress counter
pool-group	Pool-group statistics
depth	Depth

## Command Mode

- /exec/configure/config-ssx-record

# collect

[no] collect { ethernet counters }

Syntax Description

collect	Stats type to be configured
ethernet	Ethernet counter
counters	Ethernet counters

Command Mode

- /exec/configure/config-ssx-record

## 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 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 interval

[no] collect interval <interval>

## Syntax Description

collect	Specify the collect interval
interval	Specify the collect interval
interval	Collect interval in milli seconds

## Command Mode

- /exec/configure/nfm-profile

## 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 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

# 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

# color

```
{ no color <color_name> } | { color <color_name> }
```

## Syntax Description

no	Negate a command or set its defaults
color	Specify the affinity color for the interface
color_name	Specify the affinity color name

## Command Mode

- /exec/configure/sr/te/if/aff

# color

[no] color <color-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
color	Configure Affinity Colors for constraints
color-name	Configure Affinity Colors for constraints

Command Mode

- /exec/configure/sr/te/color/cndpaths/pref/constraint/aff/inclall



# color

[no] color <color-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
color	Configure Affinity Colors for constraints
color-name	Configure Affinity Colors for constraints

Command Mode

- /exec/configure/sr/te/color/cndpaths/pref/constraint/aff/inclany

# color

[no] color <color-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
color	Configure Affinity Colors for constraints
color-name	Configure Affinity Colors for constraints

Command Mode

- /exec/configure/sr/te/color/cndpaths/pref/constraint/aff/exclany

# color

[no] color <color-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
color	Configure Affinity Colors for constraints
color-name	Configure Affinity Colors for constraints

Command Mode

- /exec/configure/sr/te/pol/cndpaths/pref/constraint/aff/inclall

# color

[no] color <color-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
color	Configure Affinity Colors for constraints
color-name	Configure Affinity Colors for constraints

Command Mode

- /exec/configure/sr/te/pol/cndpaths/pref/constraint/aff/inclany

# color

[no] color <color-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
color	Configure Affinity Colors for constraints
color-name	Configure Affinity Colors for constraints

Command Mode

- /exec/configure/sr/te/pol/cndpaths/pref/constraint/aff/exclany

# color

{ no color <color\_name> } | { color <color\_name> bit-position <position> }

## Syntax Description

no	Negate a command or set its defaults
color	Color
color_name	Color
bit-position	Bit Position
position	Bit Position<0-31>

## Command Mode

- /exec/configure/sr/te/affmap

# color endpoint

[no] color <color> endpoint <px>

## Syntax Description

no	(Optional) Negate a command or set its defaults
color	Policy Color
color	Policy Color
endpoint	Policy Endpoint
px	IPv4 endpoint address

## Command Mode

- /exec/configure/sr/te/pol

# commit

commit

Syntax Description

commit	commit plb session
--------	--------------------

Command Mode

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



# commit

commit

Syntax Description

commit	Commit the current configuration session
--------	--

Command Mode

- /exec/configure

# commit

commit

Syntax Description

commit	commit itd session
--------	--------------------

Command Mode

- /exec/configure/itd-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

# conf-offset

[no] conf-offset <offset>

Syntax Description

conf-offset	Configure Confidentiality offset
offset	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
confed-id	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
confed-id	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 on substitute

[no] configure config-template <name> { on-vrf-create | on-vrf-delete } substitute <match\_replace>

### Syntax Description

no	(Optional) Negate a command or set its defaults
configure	Enter configuration mode
config-template	Configuration-template
name	Configuration-template name
on-vrf-create	Configuration-template for create action
on-vrf-delete	Configuration-template for delete action
substitute	Configuration-template substitute
match_replace	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 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
all_conf_profile_name	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 ] [ debug | stop-at-first-failure | best-effort ] [ commit-timeout <time> ] [ non-interactive ] [
verify-and-commit ] ] | [ show-patch | verify-only ] ]
```

## Syntax Description

configure	Configure the box
replace	Perform a replace of the running-config
uri_local	Configuration file to use. The user-config is a file that is expected to be in the same syntax/format as running-config. Recommended work flow is to take the running-config and edit it to create the user-config. When the user-config is edited, ensure it is in the same syntax/format as it appears in the running config. Refer to the documentation for details.
uri_remote	Configuration file to use. The user-config is a file that is expected to be in the same syntax/format as running-config. Recommended work flow is to take the running-config and edit it to create the user-config. When the user-config is edited, ensure it is in the same syntax/format as it appears in the running config. Refer to the documentation for details.
source-interface	(Optional) Select source interface
intf	(Optional)
vrf	(Optional) Display per-VRF information
verbose	(Optional) Show the logs of operation
show-patch	(Optional) Show the patch to be applied
debug	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
stop-at-first-failure	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
commit-timeout	(Optional) specify config replace commit timeout value
time	(Optional) Timeout in seconds
non-interactive	(Optional) No user prompt in maintenance mode
verify-only	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
verify-and-commit	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
best-effort	(Optional) apply patch in best-effort mode. skip intermediate errors
vrf-known-name	(Optional) Known VRF name

## Command Mode

- /exec

# configure replace abort

configure replace abort

Syntax Description

configure	Configure the box
replace	Perform a replace of the running-config
abort	Aborting config replace operation

Command Mode

- /exec

# configure replace commit

configure replace commit

Syntax Description

configure	Configure the box
replace	Perform a replace of the running-config
commit	Commit config replace operation

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



# 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
drop-prob	Drop Probability Value
packets	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
bytes	(Optional) Bytes
kbytes	(Optional) Kilo Bytes
mbytes	(Optional) Mega Bytes
packets1	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
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
min-thresh	Minimum threshold value
maximum-threshold	Specify maximum threshold for WRED
max-thresh	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

# connected-prefix-sid-map

[no] connected-prefix-sid-map

Syntax Description

no	(Optional) Negate a command or set its defaults
connected-prefix-sid-map	Configure connected prefix Segment Identifier mappings

Command Mode

- /exec/configure/config-sr-mps

# constraints

[no] constraints

Syntax Description

no	(Optional) Negate a command or set its defaults
constraints	Candidate path-option constraints

Command Mode

- /exec/configure/sr/te/color/cndpaths/pref



# constraints

[no] constraints

Syntax Description

no	(Optional) Negate a command or set its defaults
constraints	Candidate path-option constraints

Command Mode

- /exec/configure/sr/te/pol/cndpaths/pref

# 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
value	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
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Command Mode

- /exec/configure

# control-plane dynamic

control-plane dynamic

Syntax Description

control-plane	Enter to control-plane sub-mode
dynamic	dynamic mode

Command Mode

- /exec/configure

# 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
vlan-id	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
user	Enter user ID
password	Password
0	Password that follows should be in clear text
clear	Password in clear text
7	Password that follows should be encrypted text
encrypted	Encrypted password

### Command Mode

- /exec/configure/nbm-controller

## controller description

{ controller description <ctrlr-desc> | no controller description }

### Syntax Description

no	Negate a command or set its defaults
controller	Controller command
description	Controller description
ctrlr-desc	String description of the controller

### Command Mode

- /exec/configure/controller-type



# controller ip vrf

[no] controller ip <cntlr-ip> vrf { <vrf-name> | <vrf-known-name> }

## Syntax Description

no	(Optional) Negate a command or set its defaults
controller	Controller
ip	IP Address
cntlr-ip	IP Address of Controller
vrf	vrf context
vrf-name	VRF name
vrf-known-name	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)
ipv4	IP address (A.B.C.D)
port	(Optional) Controller TCP port (default is 6653)
tcpport	(Optional) TCP port number (default port is 6653)
vrf	(Optional) Controller VRF
vrf-name	(Optional) VRF name
vrf-known-name	(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)
ipv4	IP address (A.B.C.D)
port	(Optional) Controller TCP port (default is 6653)
tcpport	(Optional) TCP port number (default port is 6653)
vrf	(Optional) Controller VRF
vrf-name	(Optional) VRF name
vrf-known-name	(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
controller-id	Controller id value

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
profile_type	CoPP Profile Types
prefix	prefix for the copied policy
suffix	suffix for the copied policy
user_string	Enter prefix/suffix for the copied policy

Command Mode

- /exec

# copp profile

copp profile <profile\_type>

Syntax Description

copp	Control-Plane Policing
profile	CoPP Profile
profile_type	CoPP Profile Types

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
profile_type	(Optional) 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
src_local	Select source filesystem
src_core	Select source filesystem
dest_local	Select destination filesystem
dest_remote	Select destination filesystem
src_remote	Select source filesystem
vrf	(Optional) Display per-VRF information
source-interface	(Optional) Select source interface
intf	(Optional)
vrf-known-name	(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	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

## 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

```
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
src_local	Select source filesystem
src_core	Select source filesystem
dest_local	Select destination filesystem
dest_local_core	Select destination filesystem
dest_local_config	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	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
fabric	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

## 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
uri0	Specify URL (with .tar extension) for backing up license files

Command Mode

- /exec

# copy licenses

copy licenses <uri0>

Syntax Description

copy	Copy from one file to another
licenses	Backup license files
uri0	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

copy	Copy from one file to another
recursive	Recursively copy files and folders
source	Select source filesystem
destination	Select destination filesystem
vrf	(Optional) Display per-VRF information
use-kstack	(Optional) Use kstack version of copy
vrf-known-name	(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
dest_remote	Select destination filesystem
vrf	(Optional) Display per-VRF information
vrf-known-name	(Optional) Known VRF name
source-interface	(Optional) Select source interface
intf	(Optional)
running-config-src	Copy running configuration to destination
startup-config-src	Copy startup configuration to destination
vdc-all	Perform copy for all vdc's
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
dest_local_config	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

### 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'.



# cost

{ cost <cost> } | { no cost [ <cost> ] }

## Syntax Description

no	Negate a command or set its defaults
cost	Cost associated with interface
cost	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

# count

[no] count <cap-count>

Syntax Description

no	(Optional) Negate the command
count	Configure Captured Transactions count
cap-count	Number of Captured Transactions

Command Mode

- /exec/configure/pkt-drop

## 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	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

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
s0	trustpoint label
pkcs12	source file url
uri0	source file url
s1	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
i0	(Optional) Refresh time value in hours. A value of 0 will now run the refresh routine once.
server-group	Ldap server group
s0	Ldap server group 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 ca trustpool import url

crypto ca trustpool import url <source\_uri>

Syntax Description

crypto	Set crypto settings
ca	Configure certificate authority related information
trustpool	Configure trustpool related information
import	Configure import of trustpool
url	Configure URL from which trustpool will be imported
source_uri	Select source URL

Command Mode

- /exec

# crypto ca trustpool import url clean

crypto ca trustpool import url clean

Syntax Description

crypto	Set crypto settings
ca	Configure certificate authority related information
trustpool	Configure trustpool related information
import	Configure import of trustpool
url	URL from which trustpool will be imported
clean	delete the contents of the trustpool

Command Mode

- /exec

# crypto ca trustpool policy

crypto ca trustpool policy

Syntax Description

crypto	Set crypto settings
ca	Configure certificate authority related information
trustpool	Configure trustpool related information
policy	Configure trustpool policy

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
i0	(Optional) key-pair size
label	(Optional) key-pair label
s0	(Optional) key-pair label
exportable	(Optional) key-pair is exportable
modulus1	(Optional) key-pair size
i1	(Optional) key-pair size
modulus2	(Optional) key-pair size
i2	(Optional) key-pair size

### 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
algo	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
bytes	{n n- n-m -m} N-th byte, N to end of line, N to M, start of line to N
chars	{n n- n-m -m} N-th char, N to end of line, N to M, start of line to N
fields	{n n- n-m -m} N-th field, N to end of line, N to M, start of line to N
delim	field separator char, TAB is default, use ' ' for space
--help	print help of underlying unix command

## Command Mode

- /output



## D Commands

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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
sec	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
half-life	(Optional) Decay half life
reuse-limit	(Optional) Value to start reusing a route
suppress-limit	(Optional) Value to start suppressing a route
max-suppress-time	(Optional) Maximum suppress time for stable route
route-map	(Optional) Apply route-map to specify dampening criteria
rmap-name	(Optional) Route-map name

## 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-link-state  
/exec/configure/router-bgp/router-bgp-af-l2vpn-evpn /exec/configure/router-bgp/router-bgp-af-ipv4-mvpn  
/exec/configure/router-bgp/router-bgp-af-ipv6-mvpn

# 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
half-life	(Optional) Decay half life
reuse-limit	(Optional) Value to start reusing a route
suppress-limit	(Optional) Value to start suppressing a route
max-suppress-time	(Optional) Maximum suppress time for stable route
route-map	(Optional) Apply route-map to specify dampening criteria
rmap-name	(Optional) Route-map name

## Command Mode

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

# data-pattern

```
{ { no | default } data-pattern | data-pattern <hex-pattern> }
```

## Syntax Description

no	
default	Set a command to its defaults
data-pattern	Data Pattern
hex-pattern	Data Pattern in Hex

## Command Mode

- /exec/configure/ip-sla/udp



# data-pattern pad

```
{ data-pattern pad <pad-val> }
```

## Syntax Description

data-pattern	Configure NGOAM ping payload
pad	Configure NGOAM payload test pattern pad
pad-val	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
type	

## 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
eid-prefix	IP EID-prefix for RLOC static mapping
locator	IP address of LISP-VM routers
priority	Configures which Locators from a set are preferred
priority	Lower priority Locator takes preference
weight	Traffic load-spreading among Locators
weight	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
i0	Number of data bits

Command Mode

- /exec/configure/console

# databits

[no] databits <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
databits	Set number of databits per character
i0	Number of data bits

Command Mode

- /exec/configure/com1

# datapath-id

datapath-id <datapathid-val> | no datapath-id

Syntax Description

no	Negate a command or set its defaults
datapath-id	Datapath ID
datapathid-val	64-bit hex value [0x1-0xffffffffffffff]

Command Mode

- /exec/configure/openflow/switch/sub-switch

# datapath-id

datapath-id <datapathid-val> | no datapath-id

Syntax Description

no	Negate a command or set its defaults
datapath-id	Datapath ID
datapathid-val	64-bit hex value [0x1-0xffffffffffff]

Command Mode

- /exec/configure/openflow/switch

# dataplane mpls

[no] dataplane mpls

Syntax Description

no	(Optional) Negate a command or set its defaults
dataplane	Dataplane Candidate path-option
mpls	MPLS Dataplane Candidate path-option

Command Mode

- /exec/configure/sr/te/color/cndpaths/pref/constraint/sgmnt



# dataplane mpls

[no] dataplane mpls

Syntax Description

no	(Optional) Negate a command or set its defaults
dataplane	Dataplane Candidate path-option
mpls	MPLS Dataplane Candidate path-option

Command Mode

- /exec/configure/sr/te/pol/cndpaths/pref/constraint/sgmnt

## 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
jid	Enter Jabber ID of database
key-type	(Optional) Query key type for this database
key-type	(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
user	Enter user ID
password	Password
0	Password that follows should be in clear text
clear	Password in clear text
7	Password that follows should be in encrypted text
encrypted	Encrypted password
password	Enter password in clear text
shared-secret	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
10	(Optional) Indicates that password that follows should be in clear text
clear	(Optional) Password in clear text
7	(Optional) Password that follows should be in encrypted text
encrypted	(Optional) Encrypted password
secret	(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
tablename	Enter table name to search
key-type	(Optional) Query key type for this table
key-type	(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
interval	(seconds)

## Command Mode

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

# dead-interval

```
{ { dead-interval <interval> } | { no dead-interval [ <interval> ] } }
```

## Syntax Description

no	Negate a command or set its defaults
dead-interval	Dead interval
interval	(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
interval	(seconds)

## Command Mode

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

# deadtime

[no] deadtime <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
deadtime	duration for which non-reachable server is skipped
i0	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
i0	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
i0	Length of time, in minutes

Command Mode

- /exec/configure/tacacs+

## 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
map-name	(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 <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
map-name	(Optional) A 'routing-rules' route-map name

### Command Mode

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

## 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
policy-name	(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

[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
map	(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 <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
policy-name	(Optional) Route-map name

### Command Mode

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

# 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 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
ext-comm-rd-aa4nn2	VPN route distinguisher in aa4:nn or ip:nn format
ext-comm-rd-aa2nn4	VPN route distinguisher in aa:nn format
route-target	Specify Target VPN Extended Communities
ext-comm-rt-aa4nn2	RT extcommunity in aa4:nn or ip:nn format
ext-comm-rt-aa2nn4	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

{ 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
cost	Metric value

## Command Mode

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

# default-metric

default-metric <metric> | no default-metric [ <metric> ]

## Syntax Description

no	Negate a command or set its defaults
default-metric	RIP default metric
metric	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 <bw> <delay> <rel> <load> <mtu> } | { no default-metric [ <bw> <delay> <rel> <load> <mtu> ] } }
```

### Syntax Description

no	Negate a command or set its defaults
default-metric	Set metric of redistributed routes
bw	Bandwidth in Kbits per second
delay	Delay metric
rel	Reliability metric where 255 is 100% reliable
load	Effective bandwidth metric (Loading) where 255 is 100% loaded
mtu	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 <cost> } | { no default-metric [ <cost> ] }

## Syntax Description

no	Negate a command or set its defaults
default-metric	Specify default metric for redistributed routes
cost	Metric value

## Command Mode

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

# default-metric

[no] default-metric <metric>

Syntax Description

no	(Optional) Negate a command or set its defaults
default-metric	Set metric of redistributed routes
metric	Default Metric

Command Mode

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

# 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
rmap-name	(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

# default permit

[no] default { permit | deny }

Syntax Description

no	(Optional) Negate a command or set its defaults
default	Default Host Admission Policy
permit	Admission Permitted
deny	Admission Denied

Command Mode

- /exec/configure/nbm-vrf/nbm-host-policy/receiver

# default permit

[no] default { permit | deny }

Syntax Description

no	(Optional) Negate a command or set its defaults
default	Default Host Admission Policy
permit	Admission Permitted
deny	Admission Denied

Command Mode

- /exec/configure/nbm-host-policy/sender

# default permit

[no] default { permit | deny }

Syntax Description

no	(Optional) Negate a command or set its defaults
default	Default Host Admission Policy
permit	Admission Permitted
deny	Admission Denied

Command Mode

- /exec/configure/nbm-vrf/nbm-host-policy/sender

# default permit

[no] default { permit | deny }

Syntax Description

no	(Optional) Negate a command or set its defaults
default	Default Host Admission Policy
permit	Admission Permitted
deny	Admission Denied

Command Mode

- /exec/configure/nbm-host-policy/receiver

# default permit

[no] default { permit | deny }

Syntax Description

no	(Optional) Negate a command or set its defaults
default	Default Host Admission Policy
permit	Admission Permitted
deny	Admission Denied

Command Mode

- /exec/configure/nbm-host-policy/pim

# default permit

[no] default { permit | deny }

Syntax Description

no	(Optional) Negate a command or set its defaults
default	Default Host Admission Policy
permit	Admission Permitted
deny	Admission Denied

Command Mode

- /exec/configure/nbm-vrf/nbm-host-policy/pim

# define

[no] define <paramname> [ <paramtype> ] [ <paramdesc> ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
define	Define a parameter
paramname	Enter the name of the parameter
paramtype	(Optional) param type
paramdesc	(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
sec	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
delay_val	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
microseconds	Throughput delay (tens of microseconds)

## Command Mode

- /exec/configure/if-vlan-common

# delay

delay <delay\_val> | no delay [ <delay\_val> ]

## Syntax Description

no	Negate a command or set its defaults
delay	Specify interface throughput delay
delay_val	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 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
time	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
time-out	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
time-out	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
delay_time	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
up_delay	Seconds to delay
down	(Optional) Delay down change notification
down_delay	(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
uri0	Delete a file or directory
uri1	Delete a file or directory on expansion flash
uri2	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

# depth

{ [ no ] depth <cells> | no depth }

## Syntax Description

depth	Provide the number of cells for this INT queue_profile
cells	queue_profile depth (number of cells). Default is 300

## Command Mode

- /exec/configure/config-int-q-prof

# depth

{ [ no ] depth <cells> | no depth }

## Syntax Description

depth	Provide the number of cells for this POSTCARD queue_profile
cells	queue_profile depth (number of cells/packets). Default is 300

## Command Mode

- /exec/configure/config-postcard-q-prof



# 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
desc_line	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

{ [ no ] description <line> | no description }

## Syntax Description

description	Provide a description for this INT queue_profile
line	queue_profile description string (63 characters maximum)

## Command Mode

- /exec/configure/config-int-q-prof

# description

{ [ no ] description <line> | no description }

## Syntax Description

description	Provide a description for this INT flow-profile
line	flow-profile description string (63 characters maximum)

## Command Mode

- /exec/configure/config-int-flow-prof

# description

{ [ no ] description <line> | no description }

## Syntax Description

description	Provide a description for this Flow Record
line	Record description string (63 characters maximum)

## Command Mode

- /exec/configure/config-fte-record

# description

{ [ no ] description <line> | no description }

Syntax Description

description	Provide a description for this FTE Monitor
line	Monitor description string (63 characters maximum)

Command Mode

- /exec/configure/config-fte-monitor

# description

{ [ no ] description <line> | no description }

## Syntax Description

description	Provide a description for this FTE Eveny
line	Event description string (63 characters maximum)

## Command Mode

- /exec/configure/config-fte-event

# description

{ description <line> | no description }

Syntax Description

no	Negate a command or set its defaults
description	Description of the route-map
line	Route-map description string

Command Mode

- /exec/configure/route-map

# description

{ description <descr> } | { no description }

Syntax Description

description	Configure description of the profile
descr	Description of maximum 64 characters

Command Mode

- /exec/configure/configngoamprofile



# description

description <descr> | no description

Syntax Description

no	Negate a command or set its defaults
description	Session description (max 32 characters)
descr	Enter the description string(can include spaces)

Command Mode

- /exec/configure/monitor-common

# 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
desc_line	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
desc-str	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
desc-str	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
desc-str	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
desc-str	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
desc-str	Description of this policy-map (up to 200 characters)

Command Mode

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

# description

{ [ no ] description <line> | no description }

Syntax Description

description	Provide a description for this Flow Record
line	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
line	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
line	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	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
desc_line	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
desc-str	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
desc-str	Description of this policy-map (up to 200 characters)

Command Mode

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

# description

description <desc> | no description

Syntax Description

no	Negate a command or set its defaults
description	Fabric Path topology description
desc	Description of maximum 80 characters

Command Mode

- /exec/configure/fp-topology

# description

[no] description <description>

Syntax Description

no	(Optional) Negate a command or set its defaults
description	Configure description for the policy
description	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

```
{ [ no ] description <line> | no description }
```

Syntax Description

description	Provide a description for this Flow Exporter
line	Monitor description string (63 characters maximum)

Command Mode

- /exec/configure/nfm-exporter

# description

{ [ no ] description <line> | no description }

Syntax Description

description	Provide a description for this Flow Record
line	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
line	Monitor description string (63 characters maximum)

## Command Mode

- /exec/configure/nfm-monitor

# description

description <desc\_line> | no description

Syntax Description

no	Negate a command or set its defaults
description	Interface specific description
desc_line	Up to 255 characters describing this interface

Command Mode

- /exec/configure/if-vlan-common

# description

```
{ [ no ] description <line> | no description }
```

## Syntax Description

description	Provide a description for this POSTCARD queue_profile
line	queue_profile description string (63 characters maximum)

## Command Mode

- /exec/configure/config-postcard-q-prof

# description

{ [ no ] description <line> | no description }

## Syntax Description

description	Provide a description for this POSTCARD flow-profile
line	flow-profile description string (63 characters maximum)

## Command Mode

- /exec/configure/config-postcard-flow-prof

# description

description <line> | no description

Syntax Description

no	Negate a command or set its defaults
description	Add a description for the role
line	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
desc_line	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
desc_line	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
desc_line	Description of maximum 80 characters

Command Mode

- /exec/configure/if-overlay /exec/configure/if-te /exec/configure/if-nve

# description

[no] description [ <desc> ] | description <desc>

Syntax Description

no	Negate a command or set its defaults
description	Group description
desc	(Optional) Up to 80 characters describing this group

Command Mode

- /exec/configure/if-eth-any/vrrpv3

# description

{ description <line> } | { no description }

Syntax Description

no	Negate a command or set its defaults
description	Description of the VRF
line	VRF description string

Command Mode

- /exec/configure/vrf

# 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
descrip-string	Description string

Command Mode

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

# description

description <describe> | no description

Syntax Description

no	Negate a command or set its defaults
description	Description for the BMP server
describe	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
describe	Upto 80 characters describing this neighbor

Command Mode

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

# description

```
{ [ no ] description <text> }
```

Syntax Description

description	description for this profile
text	description

Command Mode

- /exec/configure/dot1x-cred



# description description

[no] description | description <desc>

Syntax Description

no	(Optional) Negate a command or set its defaults
description	Pathway description
desc	Up to 80 characters describing this pathway

Command Mode

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

# dest-ipaddr

```
{ dest-ipaddr { <ip-address> | <hostname> | <ipv6-address> } }
```

## Syntax Description

dest-ipaddr	Destination ip address
ip-address	IP address, broadcast disallowed
hostname	IP Hostname, broadcast disallowed

## Command Mode

- /exec/configure/ip-sla/tcp

# dest-ipaddr

```
{ dest-ipaddr { <ip-address> | <hostname> } }
```

## Syntax Description

dest-ipaddr	Destination ip address
ip-address	IP address, broadcast disallowed
hostname	IP Hostname, broadcast disallowed

## Command Mode

- /exec/configure/ip-sla/udp /exec/configure/ip-sla/jitter

# dest-port

{ dest-port <port> }

## Syntax Description

dest-port	Destination port
port	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
numeric10	Ipv4 address of remote host / VTEP
unknown	Peer vtep ip is unknown, Applicable only for channel Nv03
mac	Mac
dmac	Destination mac address
dot1qid	Encapsulation dot1q/bd on which the mac is learnt
intfid	(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
dgrp-id	Identifier

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

[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 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

destination-profile CiscoTAC-1 [ index <i0> ] email-addr <s0>

### Syntax Description

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
index	(Optional) Configure an index(1 to 50) for email-id
i0	(Optional) Index between 1 to 50 associate with email-id

### Command Mode

- /exec/configure/callhome

## destination-profile CiscoTAC-1 http

destination-profile CiscoTAC-1 [ index <i0> ] http <s0>

### Syntax Description

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
index	(Optional) Configure an index(1 to 50) for http url
i0	(Optional) Index between 1 to 50 associate with http url

### Command Mode

- /exec/configure/callhome

## destination-profile CiscoTAC-1 index email-addr

[no] destination-profile CiscoTAC-1 index <i0> email-addr

Syntax Description

no	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
index	Delete email-id associated with index(1 to 50)
i0	Index between 1 to 50 associate with email-id

Command Mode

- /exec/configure/callhome

## destination-profile CiscoTAC-1 index http

[no] destination-profile CiscoTAC-1 index <i0> http

### Syntax Description

no	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
index	Delete http url associated with index(1 to 50)
i0	Index between 1 to 50 associate with http url

### 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

destination-profile <s0> [ index <i0> ] email-addr <s1>

### Syntax Description

destination-profile	Configure destination profiles
s0	User defined destination profile name
email-addr	Add email addr
s1	Provide email address, example: jdow@xyz.com
index	(Optional) Configure an index(1 to 50) for email-id
i0	(Optional) Index between 1 to 50 associate with email-id

### Command Mode

- /exec/configure/callhome

## destination-profile format

destination-profile <s0> format { full-txt | short-txt | XML }

### Syntax Description

destination-profile	Configure destination profiles
s0	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

destination-profile full-txt-destination [ index <i0> ] email-addr <s0>

### Syntax Description

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
index	(Optional) Configure an index(1 to 50) for email-id
i0	(Optional) Index between 1 to 50 associate with email-id

### Command Mode

- /exec/configure/callhome

## destination-profile full-txt-destination http

destination-profile full-txt-destination [ index <i0> ] http <s0>

### Syntax Description

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
index	(Optional) Configure an index(1 to 50) for http url
i0	(Optional) Index between 1 to 50 associate with http url

### Command Mode

- /exec/configure/callhome

## destination-profile full-txt-destination index email-addr

[no] destination-profile full-txt-destination index <i0> email-addr

### Syntax Description

no	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
index	Delete email-id associated with index(1 to 50)
i0	Index between 1 to 50 associate with email-id

### Command Mode

- /exec/configure/callhome

## destination-profile full-txt-destination index http

[no] destination-profile full-txt-destination index <i0> http

### Syntax Description

no	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
index	Delete http url associated with index(1 to 50)
i0	Index between 1 to 50 associate with http url

### Command Mode

- /exec/configure/callhome

## destination-profile full-txt-destination message-size

[no] destination-profile full-txt-destination message-size <i0>

### 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
message-size	Configure maximum message size (default 2500000)
i0	Provide maximum possible message size

### Command Mode

- /exec/configure/callhome



## destination-profile full-txt-destination message-level

[no] destination-profile full-txt-destination message-level <i0>

### 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
message-level	Callhome message level(0-lowest urgency, 9-highest urgency)
i0	

### 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 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 http

```
destination-profile <s4> [ index <i0> ] { http <s2> }
```

### Syntax Description

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
index	(Optional) Configure an index(1 to 50) for http url
i0	(Optional) Index between 1 to 50 associate with http url

### Command Mode

- /exec/configure/callhome

## destination-profile index email-addr

[no] destination-profile <s0> index <i0> email-addr | no destination-profile <s0> email-addr

### Syntax Description

no	Negate a command or set its defaults
destination-profile	Configure destination profiles
s0	User defined destination profile name
email-addr	Add email addr
index	Delete email-id associated with index(1 to 50)
i0	Index between 1 to 50 associate with email-id

### Command Mode

- /exec/configure/callhome

## destination-profile index http

[no] destination-profile <s4> index <i0> http | no destination-profile <s4> http

Syntax Description

no	Negate a command or set its defaults
destination-profile	Configure destination profiles
s4	User defined destination profile name
http	Add http or https url
index	Delete http url associated with index(1 to 50)
i0	Index between 1 to 50 associate with http url

Command Mode

- /exec/configure/callhome

# destination-profile message-level

[no] destination-profile <s0> message-level <i0>

## Syntax Description

no	(Optional) Negate a command or set its defaults
destination-profile	Configure destination profiles
s0	User defined destination profile name
message-level	Callhome message level(0-lowest urgency, 9-highest urgency)
i0	

## Command Mode

- /exec/configure/callhome

## destination-profile message-size

[no] destination-profile <s0> message-size <i0>

### Syntax Description

no	(Optional) Negate a command or set its defaults
destination-profile	Configure destination profiles
s0	User defined destination profile name
message-size	Configure maximum message size (default 2500000)
i0	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

destination-profile short-txt-destination [ index <i0> ] email-addr <s0>

### Syntax Description

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
index	(Optional) Configure an index(1 to 50) for email-id
i0	(Optional) Index between 1 to 50 associate with email-id

### Command Mode

- /exec/configure/callhome

## destination-profile short-txt-destination http

destination-profile short-txt-destination [ index <i0> ] http <s0>

### Syntax Description

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
index	(Optional) Configure an index(1 to 50) for http url
i0	(Optional) Index between 1 to 50 associate with http url

### Command Mode

- /exec/configure/callhome

## destination-profile short-txt-destination index email-addr

[no] destination-profile short-txt-destination index <i0> email-addr

### Syntax Description

no	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
index	Delete email-id associated with index(1 to 50)
i0	Index between 1 to 50 associate with email-id

### Command Mode

- /exec/configure/callhome

## destination-profile short-txt-destination index http

[no] destination-profile short-txt-destination index <i0> http

### Syntax Description

no	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
index	Delete http url associated with index(1 to 50)
i0	Index between 1 to 50 associate with http url

### Command Mode

- /exec/configure/callhome

## destination-profile short-txt-destination message-size

[no] destination-profile short-txt-destination message-size <i0>

### 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
message-size	Configure maximum message size (default 4000)
i0	

### Command Mode

- /exec/configure/callhome

## destination-profile short-txt-destination message-level

[no] destination-profile short-txt-destination message-level <i0>

### 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
message-level	Callhome message level(0-lowest urgency, 9-highest urgency)
i0	

### 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 { <ipaddr> | <ipv6addr> } [ use-vrf { <vrf_name> | <vrf-known-name> } ] | no destination }
```

### Syntax Description

destination	Specify the destination address
ipaddr	Destination IP address for collector
use-vrf	(Optional) Optional VRF label
vrf_name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name

### Command Mode

- /exec/configure/config-fte-exporter

# destination1 interface

[no] destination1 interface <interface\_range>

Syntax Description

no	(Optional) Negate a command or set its defaults
destination1	Destination configuration
interface	Configure interfaces
interface_range	

Command Mode

- /exec/configure/monitor-local-dst

# destination

```
{ [ no ] destination { <ipaddr> } [ use-vrf { <vrf_name> | <vrf-known-name> } ] | no destination }
```

## Syntax Description

destination	Specify the destination address
ipaddr	Destination IP address for collector
use-vrf	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
vrf_name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name

## Command Mode

- /exec/configure/config-int-exporter

# destination

```
{ [ no ] destination { <ipaddr> | <ipv6addr> } [ use-vrf { <vrf_name> | <vrf-known-name> } ] | no destination }
```

## Syntax Description

destination	Specify the destination address
ipaddr	Destination IP address for collector
use-vrf	(Optional) Optional VRF label
vrf_name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name

## Command Mode

- /exec/configure/nfm-exporter

# destination

```
{ [ no ] destination <ipaddr> } [ use-vrf { <vrf-name> | <vrf-known-name> } ]
```

## Syntax Description

destination	Destination configuration
ipaddr	IP Address to be configured
use-vrf	(Optional) VRF label
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name

## Command Mode

- /exec/configure/config-ssx-exporter



# destination

```
{ [ no ] destination { <ipaddr> | <ipv6addr> } [ use-vrf { <vrf_name> | <vrf-known-name> } ] | no destination }
```

## Syntax Description

destination	Specify the destination address
ipaddr	Destination IP address for collector
use-vrf	(Optional) Optional VRF label
vrf_name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name

## Command Mode

- /exec/configure/nfm-exporter

# destination

```
{ [ no ] destination { <ipaddr> } [ use-vrf { <vrf_name> | <vrf-known-name> } ] | no destination }
```

## Syntax Description

destination	Specify the destination address
ipaddr	Destination IP address for collector
use-vrf	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
vrf_name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name

## Command Mode

- /exec/configure/config-postcard-exporter

# destination

[no] destination | destination <ipaddr>

Syntax Description

no	Negate a command or set its defaults
destination	destination of tunnel
ipaddr	ip address (A.B.C.D)

Command Mode

- /exec/configure/if-te

## 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
ip-addr	IP address in format i.i.i.i
ip-mask	IP network mask in format m.m.m.m
ip	(Optional) IP Protocol
udp	(Optional) UDP Protocol
tcp	(Optional) TCP Protocol
port_num	(Optional) Port Number
any	(Optional) Any Port Number
arp	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
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

## destination interface

[no] destination interface <interface\_range>

Syntax Description

no	(Optional) Negate a command or set its defaults
destination	Destination configuration
interface	Configure interfaces
interface_range	

Command Mode

- /exec/configure/monitor-local-dst

# destination ip

[no] destination ip <ipaddress>

## Syntax Description

no	(Optional) Negate a command or set its defaults
destination	Destination configuration
ip	Configure remote IP address
ipaddress	

## Command Mode

- /exec/configure/config-monitor-erspan-src

# device-group

[no] device-group <group-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
device-group	PLB device group
group-name	Specify device-group name

Command Mode

- /exec/configure/plb



# device-group

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

## Syntax Description

no	Negate a command or set its defaults
device-group	ITD device group
name	ITD device group name

## Command Mode

- /exec/configure/itd

# device-role

[no] device-role <dev\_role>

Syntax Description

no	(Optional) Negate a command or set its defaults
dev_role	

Command Mode

- /exec/configure/config-ra-guard

# device-role

[no] device-role <dev\_role>

Syntax Description

no	(Optional) Negate a command or set its defaults
dev_role	

Command Mode

- /exec/configure/config-snoop-policy

# device-role

[no] device-role <devrole>

Syntax Description

no	(Optional) Negate a command or set its defaults
devrole	

Command Mode

- /exec/configure/config-dhcp-guard

# 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

diagnostic bootup level { bypass | complete | minimal }

Syntax Description

diagnostic	Diagnostic commands
bootup	Configure Diagnostic for bootup
level	Select diagnostic level
bypass	Skip all bootup test
complete	Complete level
minimal	Minimal level - no MacsecLoopBackTest

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
module	Module number
all	Select all
test	Diagnostic test selection
test-id	

## Command Mode

- /exec

## 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
module	Module number
test	Diagnostic test selection
all	Select all test ID
test-id	
name	Test name
hour	Hour of the day
hour-cntr	Interval in hours
min	Minute of an hour
min-cntr	Interval in minutes
second	Second of a minute
sec-cntr	Interval in seconds

### 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
module	Module number
test	Diagnostic test selection
all	Select all test ID
test-id	
name	Test name

## Command Mode

- /exec/configure

# diagnostic monitor syslog

[no] diagnostic monitor syslog

Syntax Description

no	(Optional) Negate a command or set its defaults
diagnostic	Diagnostic command
monitor	Configure diagnostic monitoring for syslog
syslog	Diag test failure syslog

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
failure-cnt	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
iteration-count	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
module	Module number
test	Diagnostic test selection
port_lb	Port loop back test
packet-length	Size of the packet
size	Packet size for the selected module

## 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
module	Module Number
test	Diagnostic test selection
all	Select all test ID
name	Test name
test-id	
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
port-id	(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
module	Module Number
test	Diagnostic test selection
all	Select all test ID
test-id	
name	Test name

## Command Mode

- /exec

# diagnostictestsimulationmoduletestdiagnostictestsimulationmodule 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
module	Module Number
test	Diagnostic test selection
test-id	
port	(Optional) Interface port selection
all	(Optional) Select all ports
port-id	(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 <regex> | -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)
lines	(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 regex
regex	(Optional) regex 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
columns	(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

dir	list files in a directory
uri0	(Optional) Directory or filename
uri1	(Optional) Directory or filename on expansion flash
uri2	(Optional) Directory or filename on log flash
__readonly__	(Optional) Read Only
TABLE_dir	(Optional) show dir
fsize	(Optional) filesize
timestring	(Optional) time string
fname	(Optional) filename
usage	(Optional) usage
bytesused	(Optional) bytes used
bytesfree	(Optional) bytes free
bytestotal	(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-fka

[no] disable-fka

Syntax Description

no	(Optional) Negate a command or set its defaults
disable-fka	Disables verifying FIP Keep Alive

Command Mode

- /exec/configure/if-vfc

# 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
- /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

## 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
prfxlist-name	(Optional) Name of prefix-list

### Command Mode

- /exec/configure/router-bgp



# 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

## 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

# disjoint

[no] disjoint

Syntax Description

no	(Optional) Negate a command or set its defaults
disjoint	Configure disjointness association type

Command Mode

- /exec/configure/sr/te/pol/cndpaths/pref/constraint/assoc

# disjoint

[no] disjoint

Syntax Description

no	(Optional) Negate a command or set its defaults
disjoint	Configure disjointness association type

Command Mode

- /exec/configure/sr/te/color/cndpaths/pref/constraint/assoc

# distance

distance <admin-dist> | no distance [ <admin-dist> ]

## Syntax Description

no	Negate a command or set its defaults
distance	OSPF administrative distance
admin-dist	administrative distance value

## Command Mode

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

# distance

distance <distance> | no distance [ <distance> ]

## Syntax Description

no	Negate a command or set its defaults
distance	RIP administrative distance
distance	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	Administrative distance
admin-dist	Distance value

## Command Mode

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

# distance

distance <admin-dist> | no distance [ <admin-dist> ]

## Syntax Description

no	Negate a command or set its defaults
distance	OSPFv3 administrative distance
admin-dist	administrative distance value

## Command Mode

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



# 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
int-distance	Distance for internal routes
ext-distance	Distance for external routes

## Command Mode

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

# 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
ebgp-dist	Distance for EBGp routes
ibgp-dist	Distance for IBGP routes
local-dist	Distance for local routes

## Command Mode

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

# 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
src-level	Route-distribution between levels
dst-level	Route-distribution between levels
route-map	Route Map to constrain distribution
into	from level-n into level-m
map-name	A 'routing-rules' route-map name
rtr_pol_name	An existing routing-rules policy
all	Distribute all level-n routes

## Command Mode

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

## distribute link-state

[no] distribute link-state [ instance-id <instid> ] [ level <level> ] [ throttle <seconds> ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
distribute	Distribute routes between ISIS levels
link-state	Distribute link-state
instance-id	(Optional) Instance ID of ISIS process
instid	(Optional) Instance ID of ISIS process
level	(Optional) Level to be distributed
level	(Optional) IS-IS level
throttle	(Optional) Throttle timer in seconds
seconds	(Optional) Throttle timer in seconds

### Command Mode

- /exec/configure/router-isis

# 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)
source-ip	(Optional) source-port
src-port	(Optional)
dns	DNS Operation
WORD	Target IP Address or Hostname
name-server	Name Server
hostname	Destination hostname, broadcast disallowed
ip-address	Destination IP address, broadcast disallowed
source-ip-hostname	(Optional) source IP hostname, broadcast disallowed
source-ip-address	(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
id	OSPF domain ID in IP address format
type	OSPF domain ID type in Hex format
dtype	OSPF domain ID type in Hex format
value	OSPF domain ID ext. community value in Hex
dvalue	
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
id	OSPF domain ID in IP address format
type	OSPF domain ID type in Hex format
dtype	OSPF domain ID type in Hex format
value	OSPF domain ID ext. community value in Hex
dvalue	
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
as-number	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
uri0	Filename to be displayed

Command Mode

- /exec

# 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
vlan-id	specify flow profile vlan-id
cos	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
cos-val	(Optional) class of service value

## Command Mode

- /exec/configure/configngoamprofileflow

# dot1q

```
{ dot1q <dot1q-id> [ <intf-id> ] } | { no dot1q }
```

## Syntax Description

no	Negate a command or set its defaults
dot1q	Encapsulation dot1q/bd
dot1q-id	Encapsulation dot1q/bd value
intf-id	(Optional) Name of the interface for ngoam on which dot1q is configured

## Command Mode

- /exec/configure/configngoamprofile

# 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
-------	------------------------------

Command Mode

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

# dot1x default

dot1x default

Syntax Description

dot1x	dot1x configuration commands
-------	------------------------------

Command Mode

- /exec/configure

# 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
host_mode	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 mac-move

dot1x mac-move <value> | no dot1x mac-move <value>

### Syntax Description

dot1x	dot1x configuration commands
mac-move	Enable or Disable Mac-moves
value	Mac Move

### Command Mode

- /exec/configure

## 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
count	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
count	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
pae-value	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
port-control-value	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
if	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/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
name	profile name

Command Mode

- /exec/configure/dot1x-cred

# 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 inactivity-period

dot1x timeout inactivity-period <value> | no dot1x timeout inactivity-period

### Syntax Description

dot1x	dot1x configuration commands
timeout	Various Timeouts
inactivity-period	Timeout For Session Inactivity
value	time interval in seconds

### Command Mode

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

## 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
value	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
value	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
value	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
value	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
value	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
value	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
ena-dis-flg	Enable/Disable downlink delay feature
timeout	(Optional) downlink ports enable delay in seconds
time-out	(Optional) Time out

Command Mode

- /exec/configure

# drop-trigger

[no] drop-trigger { ingress-admission | egress-admission | wred }

## Syntax Description

no	(Optional) Negate the command
drop-trigger	Configure drop-trigger parameters
ingress-admission	Ingress Admission Drop
egress-admission	Egress Admission Drop
wred	Weighted Random Early Discard Drop

## Command Mode

- /exec/configure/pkt-drop

# dscp

{ [ no ] dscp <dscp> | no dscp }

## Syntax Description

dscp	Optional DSCP
dscp	Differentiated services codepoint value

## Command Mode

- /exec/configure/nfm-exporter

# dscp

{ [ no ] dscp <dscp> | no dscp }

## Syntax Description

dscp	Provide the dscp value for this INT flow-profile
dscp	flow-profile dscp (allowed values: 1, 2, 4, 8, 16, 32, 63). Default is 1

## Command Mode

- /exec/configure/config-int-flow-prof

# dscp

{ [ no ] dscp <dscp> | no dscp }

## Syntax Description

dscp	Optional DSCP
dscp	Differentiated services codepoint value

## Command Mode

- /exec/configure/nfm-exporter



# dscp

[no] dscp <dscp>

Syntax Description

dscp	DSCP
dscp	DSCP to be configured

Command Mode

- /exec/configure/config-ssx-exporter

# dscp

```
dscp { <dscp-enum> | <dscp-val> } | { no | default } dscp [ { <dscp-enum> | <dscp-val> } ]
```

## Syntax Description

no	Negate a command or set its defaults
default	Inherit values from a peer template
dscp	Set dscp value for tcp transport
dscp-val	Specify DSCP value for Locally Originated packets for IPv4 and IPv6
dscp-enum	

## Command Mode

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

# dst-grp

[no] dst-grp <d-grp-id>

Syntax Description

no	(Optional) Negate a command or set its defaults
dst-grp	Associated destination group
d-grp-id	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
allow-vlans	Set allowed interface vlans

Command Mode

- /exec/configure/vpc-domain

# duplex

duplex <duplex\_mode> | no duplex [ <duplex\_mode> ]

## Syntax Description

no	Negate a command or set its defaults
duplex	Enter the port duplex mode
duplex_mode	Interface duplex mode

## Command Mode

- /exec/configure/if-mgmt-ether

# duplex

duplex <duplex\_mode> | no duplex [ <duplex\_mode> ]

## Syntax Description

no	Negate a command or set its defaults
duplex	Enter the port duplex mode
duplex_mode	Interface duplex mode

## Command Mode

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

# 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
sec	Time interval in seconds

Command Mode

- /exec/configure/router-bgp

# dynamic

[no] dynamic

Syntax Description

no	(Optional) Negate a command or set its defaults
dynamic	Enter dynamic properties for path

Command Mode

- /exec/configure/sr/te/color/cndpaths/pref

# dynamic

[no] dynamic

Syntax Description

no	(Optional) Negate a command or set its defaults
dynamic	Enter dynamic properties for path

Command Mode

- /exec/configure/sr/te/pol/cndpaths/pref

dynamic



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## eapol mac-address

[no] eapol mac-address { <mac\_addr> | broadcast-address } [ ether-type <eth\_type> ]

### Syntax Description

eapol	specify mac address and ether type for eapol packets
mac-address	mac address
mac_addr	mac address destination specified as a string
broadcast-address	broadcast address
ether-type	(Optional) ether type
eth_type	(Optional) ether type specified as string

### Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-ethernet-p2p /exec/configure/if-eth-base



# 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
ebgp-ttl	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
line	(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
cnt	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
exp	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
param	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
name	Name of policy (cannot have underscore in first two characters)
override	(Optional) Override a system policy
override-name	(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
name	Name of policy (cannot have underscore in first two characters)
override	(Optional) Override a system policy
override-name	(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
peer-set-name	(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-host

[no] egress-host <hostip>

Syntax Description

no	(Optional) Negate a command or set its defaults
hostip	IP Address of host

Command Mode

- /exec/configure/nbm-flow-def

## egress-host

[no] egress-host <hostip>

Syntax Description

no	(Optional) Negate a command or set its defaults
hostip	IP Address of host

Command Mode

- /exec/configure/nbm-vrf/nbm-flow-def

# egress-interface

[no] egress-interface <interface>

Syntax Description

no	(Optional) Negate a command or set its defaults
interface	Physical or Logical interface

Command Mode

- /exec/configure/nbm-vrf/nbm-flow-def

# egress-interface

[no] egress-interface <interface>

Syntax Description

no	(Optional) Negate a command or set its defaults
interface	Physical or Logical interface

Command Mode

- /exec/configure/nbm-flow-def

# egress

{ egress <eid> | no egress }

## Syntax Description

no	Negate a command or set its defaults
egress	Outgoing egress Interface
eid	Outgoing egress Interface identifier

## Command Mode

- /exec/configure/configngoamconnectcheck

## 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
eid-prefix	IP EID-prefix of the site
instance-id	(Optional) Configures instance-ID for site's EID-prefix
iid	(Optional) 24-bit instance-ID value
route-tag	(Optional) Route tag for LISP EID-prefix routes
tag	(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



# 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
fromemail	(Optional) Email address
-r	(Optional) Reply to address
replytoemail	(Optional) Email address
-S	(Optional) SMTP host
smtphost	(Optional) IPV4/IPV6 address or DNS name
-P	(Optional) SMTP port
smtpport	(Optional) SMTP port number
-s	(Optional) Subject
subject	(Optional) Email subject
-c	(Optional) VRF
vrf-known-name	(Optional) VRF name
toemail	Recipient email address

## Command Mode

- /output

# enable

[no] enable

Syntax Description

no	(Optional) Negate a command or set its defaults
enable	enable callhome

Command Mode

- /exec/configure/callhome

# enable

enable [ <enable-level> ]

Syntax Description

enable	Turn on privileged commands
enable-level	(Optional) Enable Level

Command Mode

- /exec

# 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 8 9

```
{ [ test ] enable secret { 0 <key1> | 5 <key2> | 8 <key4> | 9 <key5> | <key3> } [ { priv-lvl <n> | all } ] } | {
no enable secret [ { 0 <key1> | 5 <key2> | 8 <key4> | 9 <key5> | <key3> } ] [ { priv-lvl <n> | all } ] }
```

### Syntax Description

no	Negate a command or set its defaults
test	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
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
key1	Secret for privilege escalation (clear text)
5	Indicates that the secret that follows should be encrypted
key2	strongly encrypted secret
8	Indicates that the secret that follows should be encrypted - PBKDF2
key4	Secret for user privilege escalation (clear text)
9	Indicates that the secret that follows should be encrypted - SCRYPT
key5	Secret for user privilege escalation (clear text)
key3	Secret for user privilege escalation (clear text)
priv-lvl	(Optional) Privilege-level to which this secret belongs
n	(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
vlan_id	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
vlan_id	IEEE 802.1Q VLAN ID required

### Command Mode

- /exec/configure/if-remote-ethernet-sub

# 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
vlan_id	IEEE 802.1Q VLAN ID required

## Command Mode

- /exec/configure/if-gig-ether-sub

# encapsulation mpls

[no] encapsulation mpls

Syntax Description

no	(Optional) Negate a command or set its defaults
encapsulation	Encapsulation type for the overlay
mpls	Segment routing

Command Mode

- /exec/configure/evpn

# 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

## encapsulation mpls source ipv4

[no] encapsulation mpls source ipv4 <ip-address>

Syntax Description

no	(Optional) Negate a command or set its defaults
encapsulation	Configure encapsulation type
mpls	Configure parameters for mpls encapsulation
source	Configure source address for mpls encapsulation
ipv4	Configure ipv4 source address
ip-address	Source address

Command Mode

- /exec/configure/sr/te

# 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
uuid	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
name	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

## 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

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 | udld | 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 | udld |
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
udld	Enable timer to recover from udld 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

```
[no] errdisable detect cause { link-down [ num-times <i0> duration <i1> ] | trustsec-violation [ num-times
<i0> duration <i1> ] | bit-errors [ num-times <i0> duration <i1> ] | signal-loss [ num-times <i0> duration
<i1> ] | sync-loss [ num-times <i0> duration <i1> ] | link-reset [ num-times <i0> duration <i1> ] | credit-loss
[ num-times <i0> duration <i1> ] }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
errdisable	Error Disable the port
detect	Enter detect reason
cause	Enter port down cause
link-down	Detection of excessive link down events
trustsec-violation	Detection of excessive trustsec violation events
bit-errors	Detection of excessive bit error events
signal-loss	Detection of excessive signal loss events
sync-loss	Detection of excessive sync loss events
link-reset	Detection of excessive link reset events
credit-loss	Detection of excessive credit loss events
num-times	(Optional) Enter number of flaps
i0	(Optional) Enter number of flaps
duration	(Optional) Enter duration in seconds
i1	(Optional) Enter duration in seconds

### Command Mode

- /exec/configure/if-fc /exec/configure/if-bay /exec/configure/if-ext

## 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
val	timer-interval (sec)

### Command Mode

- /exec/configure

# erspan-id

[no] erspan-id <flow\_id>

Syntax Description

no	(Optional) Negate a command or set its defaults
erspan-id	Ersparn ID for ERSPAN sessions
flow_id	erspan-id

Command Mode

- /exec/configure/monitor-erspan

# erspan-ip

[no] erspan-ip <ip-addr>

Syntax Description

no	(Optional) Negate a command or set its defaults
erspan-ip	Configure the catena erspan global origin IP address
ip-addr	Configure erspan global origin IP address in format i.i.i.i

Command Mode

- /exec/configure/catena-device-grp

# 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
es-num	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
sec	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
profile-name	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
profile-name	Static Profile Map: Configure profile name via CLI
dynamic	Dynamic Profile Map: Retrieve profile name from the external server
dot1q	Dot1Q Encapsulation
vlan-id	

### 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
profile-name	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
profile-name	Static Profile Map: Configure profile name via CLI
dynamic	Dynamic Profile Map: Retrieve profile name from the external server
vni	Virtual Network Identifier
vni-id	

### Command Mode

- /exec/configure/profile-map /exec/configure/profile-map-global

# 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
mac-addr	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
exp	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
exp	Timer exponent. (Min 22 exp ~ 40 seconds)

### Command Mode

- /exec/configure

# event

[no] event <eventname>

Syntax Description

event	Specify FTE Event to use
eventname	Name of event

Command Mode

- /exec/configure/config-fte-monitor

# 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 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
tag_id	(Optional) tag name
match	Enter cli regex to be used for matching
regex	CLI regex, use * to wildcard a token
count	(Optional) Enter an integer to be used as count
countnum	(Optional) Integer count
time	(Optional) Enter time interval within which the events need to happen
interval	(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
tag_id	(Optional) tag name
name	Enter the name of the counter
counter-name	Name of the counter
entry-val	Specify the counter entry conditions
entry-val	Specify the value for comparison with the counter value
entry-op	Specify the operator to be used for comparison
entry-op	Specify the comparison operator
exit-val	(Optional) Specify the counter exit conditions
exit-val	(Optional) Specify the value for comparison with the counter value
exit-op	(Optional) Specify the operator to be used for comparison
exit-op	(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)
fan-number	(Optional) Enter fan-number
time	Enter time
time-interval	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)
fan-number	(Optional) Enter fan-number
time	Enter time
time-interval	Time in seconds fan can stay bad

### Command Mode

- /exec/configure/event-manager-applet

# event fib adjacency extra

[no] event fib adjacency extra

Syntax Description

no	(Optional) Negate a command or set its defaults
event	Configure an event specification
fib	FIB related event
adjacency	Adjacency related event
extra	Route extra in FIB

Command Mode

- /exec/configure/event-manager-applet

## event fib resource tcam usage

[no] event fib resource tcam usage

Syntax Description

no	(Optional) Negate a command or set its defaults
event	Configure an event specification
fib	FIB related event
resource	Specify forwarding hardware resource related event
tcam	Specify TCAM related event
usage	Specify TCAM usage related event

Command Mode

- /exec/configure/event-manager-applet

## event fib route

[no] event fib route { inconsistent | missing | extra }

### Syntax Description

no	(Optional) Negate a command or set its defaults
event	Configure an event specification
fib	FIB related event
route	IP Route related event
inconsistent	Inconsistent route in FIB
missing	Missing route in FIB
extra	Route extra in FIB

### 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
module	Module Number
all	Select all module ID
test	Diagnostic test selection
name	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
cnt	Failure count

### 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
name	Name of policy (cannot have underscore in first two characters)
module	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
module-id	(Optional)
override	(Optional) Override a system policy
override-name	(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
counter-name	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 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
varname	Name of the environment variable
varvalue	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
name	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
policy-name	Name of the policy to be triggered-cannot specify default system policy
arg1	(Optional) User specified data value 1
arg2	(Optional) User specified data value 2
arg3	(Optional) User specified data value 3
arg4	(Optional) User specified data value 4
arg5	(Optional) User specified data value 5
arg6	(Optional) User specified data value 6
arg7	(Optional) User specified data value 7
arg8	(Optional) User specified data value 8
arg9	(Optional) User specified data value 9
arg10	(Optional) User specified data value 10

### Command Mode

- /exec

## 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
tag_id	(Optional) tag name
type	Enter an error type
err-name	
module	Enter a module number
all	All modules
module	Enter module number
count	Enter an integer to be used as count
countnum	Integer count
time	(Optional) Enter time interval within which the events need to happen
interval	(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
tag_id	(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
module	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
tag_id	(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
tag_id	(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
tag_id	(Optional) tag name
fan	Fan OIR
insert	OIR insert
remove	OIR remove
anyoir	any OIR (Either insert or remove)
fannum	(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
tag_id	(Optional) tag name
module	Module OIR
insert	OIR insert
remove	OIR remove
anyoir	any OIR (Either insert or remove)
module	(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
tag_id	(Optional) tag name
powersupply	powersupply OIR
insert	OIR insert
remove	OIR remove
anyoir	any OIR (Either insert or remove)
powersupnum	(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
countnum	Integer count
time	(Optional) Enter time interval within which the events need to happen
interval	(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
tag_id	(Optional) tag name
oid	oid of data element in dot notation.
oid-val	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
entry-val	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
exit-val	(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
exit-val1	(Optional) value to compare with the current polled value
exit-time	(Optional) exit time
exit-time-val	(Optional) exit time in seconds
poll-interval	polling interval
poll-int-val	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
tag_id	(Optional) tag name
occurs	(Optional) Enter an integer to be used for number of occurrences
num-occurrences	(Optional) Integer count
period	(Optional) Enter time interval within which the events need to happen
period-value	(Optional) Time interval in seconds, 0 for indefinitely
priority	(Optional) Priority of the log message
i0	(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
regex	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
module	(Optional) Enter module-number
major	set major memory threshold
i0	major memory threshold
minor	set minor memory threshold
i1	minor memory threshold
clear	set clear memory alert threshold
i2	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
countnum	Integer count
time	Enter time interval within which the events need to happen
interval	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)
module	(Optional) Enter module-number
sensor	(Optional) Optional. Enter sensor number (optional arg)
sensornum	(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
tag_id	(Optional) tag name
test	Create a 'test' event specification
match	Enter an integer to be used for matching
num	Integer value
count	(Optional) Enter an integer to be used as count
countnum	(Optional) Integer count
time	(Optional) <interval>
interval	(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
tag_id	(Optional) tag name
name	(Optional) name of the timer
timer_name	(Optional) Enter the timer name
watchdog	Watchdog timer event
wtime	Time period for watchdog
watchdog-time	<1-1924991999[.0-999]> Enter seconds[.milliseconds] value
absolute	Absolute timer event.
atime	epoch time for absolute. Try epochconverter online tool to get value
absolute-time	<1-1924991999[.0-999]> Enter seconds[.milliseconds] value
countdown	Countdown timer event
ctime	Time period for countdown
countdown-time	<1-1924991999[.0-999]> Enter seconds[.milliseconds] value
cron	Cron timer event
cron-entry	Cron entry string
cron-time	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
tag_id	(Optional) tag name
object-id	Track objects
state	State of tracking object
any	Any state
down	Down state
up	Up state

### Command Mode

- /exec/configure/event-manager-applet

# evi

[no] evi <evi\_id>

Syntax Description

no	(Optional) Negate a command or set its defaults
evi	Configure Ethernet EVI ID
evi_id	Specify EVI ID

Command Mode

- /exec/configure/evpn

# evi

{ evi <id> } | { no evi }

## Syntax Description

no	Unconfigure evi identifier
evi	Configure evi identifier for creating auto RT
id	Specify evi identifier

## Command Mode

- /exec/configure/vrf

# evi auto

[no] evi { auto }

Syntax Description

no	(Optional) Negate a command or set its defaults
evi	Configure an EVI for this VLAN
auto	Automatically set EVI to the VLAN ID

Command Mode

- /exec/configure/vlan

## evpn

[no] evpn

Syntax Description

no	(Optional) Negate a command or set its defaults
evpn	Enter EVPN configuration mode

Command Mode

- /exec/configure

## evpn multihoming core-tracking

[no] evpn multihoming core-tracking

### Syntax Description

no	(Optional) Negate a command or set its defaults
evpn	Enter EVPN configuration mode
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 dci-tracking

[no] evpn multisite dci-tracking

Syntax Description

no	(Optional) Negate a command or set its defaults
evpn	Enter EVPN configuration mode
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	Enter EVPN configuration mode
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

# exclude-any

[no] exclude-any

Syntax Description

no	(Optional) Negate a command or set its defaults
exclude-any	Configure exclude-any Affinity Constraints

Command Mode

- /exec/configure/sr/te/color/cndpaths/pref/constraint/aff

# exclude-any

[no] exclude-any

Syntax Description

no	(Optional) Negate a command or set its defaults
exclude-any	Configure exclude-any Affinity Constraints

Command Mode

- /exec/configure/sr/te/pol/cndpaths/pref/constraint/aff

## 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
acl-name	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
acl-name	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
i0	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
i0	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
line	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
val	Enter up to 8 experimental values separated by white-spaces

## Command Mode

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

# explicit-null

explicit-null [ for <pfx-list> ] [ to <peer-pfx-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
pfx-list	(Optional) Name of prefix list
to	(Optional) Access-list specifying controls on LDP peers
peer-pfx-list	(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
id	Enter number
name	Specify explicit path by name
string	Enter name

### Command Mode

- /exec/configure/te

## explicit segment-list

[no] explicit segment-list <seg-list-name> [ weight <weight> ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
explicit	Preconfigured path
segment-list	Explicit segment list configuration
seg-list-name	Identifying name of the segment-list with max 128 characters
weight	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
weight	(Optional) Weight of segment list

### Command Mode

- /exec/configure/sr/te/pol/cndpaths/pref

# export-gateway-ip

[no] export-gateway-ip

Syntax Description

no	(Optional) Negate a command or set its defaults
export-gateway-ip	Export Gateway IP to Type-5 EVPN routes for VRF

Command Mode

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

# 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
rmap-name	Route-map name

Command Mode

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



## export vrf allow-vpn

[no] export vrf allow-vpn

Syntax Description

no	(Optional) Negate a command or set its defaults
export	VRF export
vrf	Virtual Router Context
allow-vpn	Allow re-importation of VPN imported routes

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)
prefix-limit	(Optional) Maximum prefix limit (Default value is 1000)
map	Route-map based VRF import
rmap-name	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-bucket-id

[no] exporter-bucket-id <eb-id> <hash-lo> <hash-hi>

## Syntax Description

exporter-bucket-id	Exporter Bucket Id
eb-id	Collector Bucket Id
hash-lo	Collector Bucket Hash Low
hash-hi	Collector Bucket Hash High

## Command Mode

- /exec/configure/nfm-monitor

# exporter-id

{ [ no ] exporter-id <id> }

## Syntax Description

exporter-id	Specify details
id	exporter-id collector

## Command Mode

- /exec/configure/config-fte-exporter

# exporter-id

[no] exporter-id <exporter-id>

Syntax Description

exporter-id	Specify the base Exporter ID to be applied on the system
exporter-id	Base Exported ID to be applied

Command Mode

- /exec/configure/nfm-system

# exporter

[no] exporter <exportername> [ collector-bucket-id <cb-id> ]

## Syntax Description

exporter	Add an Exporter to use to export records
exportername	Name of exporter
collector-bucket-id	(Optional) Collector Bucket Id
cb-id	(Optional) Collector Bucket Id

## Command Mode

- /exec/configure/nfm-monitor

# exporter

[no] exporter <exportername>

## Syntax Description

exporter	Add an Exporter to use to export records
exportername	Name of exporter

## Command Mode

- /exec/configure/config-int-monitor

# exporter

[no] exporter <exportername>

Syntax Description

exporter	Add an Exporter to use to export records
exportername	Name of exporter

Command Mode

- /exec/configure/config-fte-monitor



# exporter

[no] exporter <exportername>

Syntax Description

exporter	Exporter to be configured
exportername	Exporter to be configured

Command Mode

- /exec/configure/config-ssx-monitor

# exporter

[no] exporter <exportername>

Syntax Description

exporter	Add an Exporter to use to export records
exportername	Name of exporter

Command Mode

- /exec/configure/nfm-monitor-eb

# exporter

[no] exporter <exportername>

Syntax Description

exporter	Add an Exporter to use to export records
exportername	Name of exporter

Command Mode

- /exec/configure/config-postcard-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
ext-comm-soo-aa4nn2	VPN extcommunity in aa4:fabric_id format
ext-comm-soo-aa2nn4	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
mgmt-ip-address	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
vrf-name	VRF name
node-id	management ip address of this node
mgmt-ip-address	IP address in CIDR format
peer-id	(Optional) management ip address of peer
peer-ip-address	(Optional) IP address in CIDR format

### 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.
id	Profile Map ID

### Command Mode

- /exec/configure/if-eth-any /exec/configure/if-port-channel

## 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
name	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
profilename	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
profilename	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
id	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
vlan-id	
interface	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
interface-id	(Optional) Name of interface
mobility-domain	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
name	(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
vni-id	
include-vrf	Include VRF name
vrf-name	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 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
distance	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
mac-addr	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
mmoves	Set Number of host moves to be allowed in n secs. Default is 5
nsecs	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
timeout	Set the timeout in secs to refresh the duplicate host. Default is 30 secs
recover-count	Maximum number of refreshes
count	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
timeout	Set the timeout in secs to refresh the duplicate host. Default is 180 secs
unfreeze-count	Maximum number of refreshes
count	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)
max-limit	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

# 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 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.
interval	Specify the value (ms)

## Command Mode

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

## fast-reload network-os

fast-reload network-os <uri>

Syntax Description

fast-reload	fast-reload software
network-os	non-cisco OS
uri	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
seconds	seconds between promotions (0 disables promotion.)

Command Mode

- /exec/configure/te

# fcdroplateny network

```
[no] fcdroplateny { network <i0> [ vsan <i1> ] | switch <i2> }
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
fcdroplateny	configure switch or network latency
network	network latency in milliseconds
i0	network latency in milliseconds
vsan	(Optional) VSAN id range
i1	(Optional)
switch	switch latency in milliseconds
i2	switch latency in milliseconds

## Command Mode

- /exec/configure

# fcoe

[no] fcoe

Syntax Description

no	(Optional) Negate a command or set its defaults
fcoe	create fcoe associate between fex and switch

Command Mode

- /exec/configure/fex

# fcoe

[no] fcoe

Syntax Description

no	(Optional) Negate a command or set its default
fcoe	FCOE Congiguration

Command Mode

- /exec/configure/vlan

## fcoe enable-fex

[no] fcoe enable-fex

Syntax Description

no	(Optional) Negate a command or set its defaults
fcoe	FCOE command
enable-fex	Enables FCoE over FEX HIF interfaces

Command Mode

- /exec/configure

## fcoe fcf-priority

fcoe fcf-priority <i0> | no fcoe fcf-priority

### Syntax Description

no	Negate a command or set its defaults
fcoe	FCOE command
fcf-priority	FCF priority specification
i0	Enter FCF priority

### Command Mode

- /exec/configure

# fcoe fcmmap

fcoe fcmmap <i0> | no fcoe fcmmap

## Syntax Description

no	Negate a command or set its defaults
fcoe	FCOE command
fcmmap	FC MAP specification
i0	Enter FCMAP

## Command Mode

- /exec/configure



# fcoe fka-adv-period

fcoe fka-adv-period <i0> | no fcoe fka-adv-period

Syntax Description

no	Negate a command or set its defaults
fcoe	FCOE command
fka-adv-period	FKA Advertisement Period
i0	FKA Advertisement Period (in sec)

Command Mode

- /exec/configure

# fcoe velloopback

fcoe velloopback | no fcoe velloopback

Syntax Description

no	Negate a command or set its defaults
fcoe	FCOE command
veloopback	VFID check for VE ports

Command Mode

- /exec/configure

# fcoe vsan

fcoe vsan <tran-id> | no fcoe vsan

## Syntax Description

no	Negate a command or set its default
fcoe	FCOE Congiguration
vsan	Translated VSAN Status
tran-id	Enter VSAN-ID being associated with VLAN-ID

## Command Mode

- /exec/configure/vlan

## fctimer D\_S\_TOV

[no] fctimer D\_S\_TOV <i0> [ vsan <i1> ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
fctimer	configure fibre channel timers
D_S_TOV	D_S_TOV in milliseconds(5000-10000)
i0	D_S_TOV in milliseconds(5000-10000)
vsan	(Optional) Specify VSAN id
i1	(Optional) VSAN id

### Command Mode

- /exec/configure

## fctimer E\_D\_TOV

[no] fctimer E\_D\_TOV <i0> [ vsan <i1> ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
fctimer	configure fibre channel timers
E_D_TOV	E_D_TOV in milliseconds(1000-4000)
i0	E_D_TOV in milliseconds(1000-4000)
vsan	(Optional) Specify VSAN id
i1	(Optional) VSAN id

### Command Mode

- /exec/configure

## fctimer R\_A\_TOV

[no] fctimer R\_A\_TOV <i0> [ vsan <i1> ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
fctimer	configure fibre channel timers
R_A_TOV	R_A_TOV in milliseconds(5000-10000)
i0	R_A_TOV in milliseconds(5000-10000)
vsan	(Optional) Specify VSAN id
i1	(Optional) VSAN id

### Command Mode

- /exec/configure

# fctimer abort

[no] fctimer abort

Syntax Description

no	(Optional) Negate a command or set its defaults
fctimer	configure fibre channel timers
abort	abort the fctimer configuration commands

Command Mode

- /exec/configure

# fctimer commit

[no] fctimer commit

Syntax Description

no	(Optional) Negate a command or set its defaults
fctimer	configure fibre channel timers
commit	commit the fctimer configuration commands

Command Mode

- /exec/configure



# fctimer distribute

[no] fctimer distribute

Syntax Description

no	(Optional) Negate a command or set its defaults
fctimer	configure fibre channel timers
distribute	Enable distribution of fctimer configuration using CFS

Command Mode

- /exec/configure

# 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
fs	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
arg1	Enter feature name

Command Mode

- /exec/configure/rolefeaturegrp

# feature analytics

[no] feature analytics

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
analytics	Enable/Disable Analytics!!!

Command Mode

- /exec/configure

# 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 catena

[no] feature catena

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
catena	Enable/Disable catena

Command Mode

- /exec/configure

# feature dhcp

[no] feature dhcp

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
dhcp	Enable/Disable DHCP Manager

Command Mode

- /exec/configure

# feature dot1x

[no] feature dot1x

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
dot1x	Enable/Disable dot1x

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 hardware-telemetry

[no] feature hardware-telemetry

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
hardware-telemetry	Enable/Disable Hardware Telemetry

Command Mode

- /exec/configure

# feature hsrp

[no] feature hsrp

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
hsrp	Enable/Disable Hot Standby Router Protocol (HSRP)

Command Mode

- /exec/configure



# feature imp

[no] feature imp

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
imp	Enable/Disable IMP

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 itd

[no] feature itd

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
itd	Enable/Disable ITD

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 mpls evpn

[no] feature mpls evpn

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
mpls	Enable/Disable MPLS Services
evpn	Enable MPLS EVPN

Command Mode

- /exec/configure



# feature mpls l3vpn

[no] feature mpls l3vpn

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
mpls	Enable/Disable MPLS Services
l3vpn	Enable/Disable Layer 3 Virtual Private Networks

Command Mode

- /exec/configure

## feature mpls oam

[no] feature mpls oam

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
mpls	Enable/Disable MPLS Services
oam	Enable MPLS OAM

Command Mode

- /exec/configure

# feature mpls segment-routing

[no] feature mpls segment-routing

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
mpls	Enable/Disable MPLS Services
segment-routing	Enable Segment-routing

Command Mode

- /exec/configure

# feature mpls segment-routing traffic-engineering

[no] feature mpls segment-routing traffic-engineering

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
mpls	Enable/Disable MPLS Services
segment-routing	Enable Segment-routing
traffic-engineering	Enable/Disable segment-routing traffic-engineering

Command Mode

- /exec/configure

# feature mpls static

[no] feature mpls static

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
mpls	Enable/Disable MPLS Services
static	Enable/Disable Static Labeled Paths

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 mvpn

[no] feature mvpn

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
mvpn	Multicast Virtual Private Networks.

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 netflow

[no] feature netflow

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
netflow	Enable/Disable NetFlow

Command Mode

- /exec/configure

# feature ngoam

[no] feature ngoam

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
ngoam	Enable/Disable ngoam

Command Mode

- /exec/configure

# feature ngoam

[no] feature ngoam

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
ngoam	Enable/Disable ngoam

Command Mode

- /exec/configure

# feature npiv

[no] feature npiv

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable 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 nv overlay

[no] feature nv overlay

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
nv	Enable/Disable VxLAN
overlay	Enable/Disable VxLAN

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 openflow

[no] feature openflow

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
openflow	Enable/Disable OpenFlow agent

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 pnp

[no] feature pnp

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
pnp	Enable/Disable PNP

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 pong

[no] feature pong

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
pong	Enable/Disable Pong

Command Mode

- /exec/configure

## feature port-security

[no] feature port-security

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable eth port security features
port-security	Enable/Disable port-security

Command Mode

- /exec/configure

# feature private-vlan

[no] feature private-vlan

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
private-vlan	Enable/Disable private-vlan

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 ptp

[no] feature ptp

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
ptp	Enable/Disable PTP

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 sflow

[no] feature sflow

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
sflow	Enable/Disable sFlow agent

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 signature-verification

[no] feature signature-verification

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
signature-verification	Enable image signature verification

Command Mode

- /exec/configure

# feature sla responder

[no] feature sla responder

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
sla	Enable/Disable SLA
responder	Enable/Disable responder part of SLA

Command Mode

- /exec/configure

# feature sla sender

[no] feature sla sender

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
sla	Enable/Disable SLA
sender	Enable/Disable sender part of SLA

Command Mode

- /exec/configure

## feature sla twamp-server

[no] feature sla twamp-server

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
sla	Enable/Disable SLA
twamp-server	Enable/Disable twamp-server part of SLA

Command Mode

- /exec/configure



# feature smart-channel

[no] feature smart-channel

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
smart-channel	Enable/Disable smart-channel

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 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 tunnel

[no] feature tunnel

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
tunnel	Enable/Disable Tunnel Manager

Command Mode

- /exec/configure

# feature uddl

[no] feature uddl

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
uddl	Enable/Disable UDLD

Command Mode

- /exec/configure

# feature vmtracker

[no] feature vmtracker

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
vmtracker	Enable/Disable VM Tracker feature

Command Mode

- /exec/configure

## feature vn-segment-vlan-based

[no] feature vn-segment-vlan-based

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
vn-segment-vlan-based	Enable/Disable VLAN based VN segment

Command Mode

- /exec/configure



# feature vpc

[no] feature vpc

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
vpc	Enable/Disable VPC (Virtual Port Channel)

Command Mode

- /exec/configure

# feature vrrp

[no] feature vrrp

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
vrrp	Enable/Disable Virtual Router Redundancy Protocol (VRRP)

Command Mode

- /exec/configure

# feature vrrpv3

[no] feature vrrpv3

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
vrrpv3	Enable/Disable Virtual Router Redundancy Protocol (VRRP) version 3

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
fec_val	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
delay	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
delay	Seconds to delay

## Command Mode

- /exec/configure/if-eth-any /exec/configure/if-vlan

# 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
s0	(Optional) Subject name
altname-email	(Optional) Email id as an alternate name
s1	(Optional) Email id
altname-upn	(Optional) User principal name as an alternate name
s2	(Optional) User principal name

## Command Mode

- /exec/configure/certmap-filter



# filter

[no] filter <filtername>

Syntax Description

filter	Specify the filter to be applied
filtername	filter name to be applied

Command Mode

- /exec/configure/nfm-system

## filter access-group

[no] filter access-group <acl-name> [ allow-sharing ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
filter	Filter configuration
access-group	access control group
acl-name	access control list name
allow-sharing	(Optional) allow up to 4 access control groups on same source interface

### Command Mode

- /exec/configure/monitor-local-src /exec/configure/config-monitor  
/exec/configure/config-monitor-erspan-src

## filter ipv6 access-group

[no] filter ipv6 access-group <acl-name> [ allow-sharing ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
filter	Filter configuration
ipv6	ipv6 access group
access-group	access control group
acl-name	access control list name
allow-sharing	(Optional) allow up to 4 access control groups on same source interface

### Command Mode

- /exec/configure/monitor-local-src /exec/configure/config-monitor  
/exec/configure/config-monitor-erspan-src

## 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
fltrlist-name	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-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

# filter vlan

[no] filter vlan <vlan\_mrange> [ include-untagged ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
filter	Filter configuration
vlan	Vlan type
vlan_mrange	
include-untagged	(Optional) Include untagged frames on port with Layer 3 subinterfaces

## Command Mode

- /exec/configure/monitor-local-src /exec/configure/config-monitor  
/exec/configure/config-monitor-erspan-src

# filter vlan include-untagged

[no] filter vlan include-untagged

Syntax Description

no	(Optional) Negate a command or set its defaults
filter	Filter configuration
vlan	Vlan type
include-untagged	Include untagged frames on port with Layer 3 subinterfaces

Command Mode

- /exec/configure/config-monitor

# find

find <s0>

## Syntax Description

find	Find a file below the current directory
s0	Enter the filename prefix to search

## 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-count

[no] flow-count <count>

## Syntax Description

flow-count	Flow count throttle for drop events
count	<1-32767>

## Command Mode

- /exec/configure/config-fte-event/group-drop-events

# flow-count

[no] flow-count <count>

Syntax Description

flow-count	Flow count throttle for drop events
count	<1-32767>

Command Mode

- /exec/configure/config-fte-event/group-latency-events

# flow exporter

[no] flow exporter <exportername>

Syntax Description

flow	Enable/Disable NetFlow configuration
exporter	Define a Flow Exporter
exportername	Name of Flow Exporter

Command Mode

- /exec/configure

# flow exporter

[no] flow exporter <exportername>

Syntax Description

flow	Enable/Disable NetFlow configuration
exporter	Define a Flow Exporter
exportername	Name of Flow Exporter

Command Mode

- /exec/configure

# flow filter

[no] flow filter <filtername>

## Syntax Description

flow	Enable/Disable NetFlow configuration
filter	Define a Flow filter
filtername	Filter name

## Command Mode

- /exec/configure

# flow monitor

[no] flow monitor <monitorname>

Syntax Description

flow	Enable/Disable NetFlow configuration
monitor	Define a Flow Monitor
monitorname	Name of Flow Monitor

Command Mode

- /exec/configure

# flow monitor

[no] flow monitor <monitorname>

Syntax Description

flow	Enable/Disable NetFlow configuration
monitor	Define a Flow Monitor
monitorname	Name of Flow Monitor

Command Mode

- /exec/configure

# flow profile

[no] flow profile <profilename>

Syntax Description

flow	Enable/Disable NetFlow configuration
profile	Define a Flow Profile
profilename	Profile name

Command Mode

- /exec/configure



# flow record

[no] flow record <recordname>

Syntax Description

flow	Enable/Disable NetFlow configuration
record	Define a Flow Record
recordname	Record name

Command Mode

- /exec/configure

# flow record

[no] flow record <recordname>

Syntax Description

flow	Enable/Disable NetFlow configuration
record	Define a Flow Record
recordname	Record name

Command Mode

- /exec/configure

# flow rtp timeout

{ [ no ] flow rtp timeout <time> | no flow rtp timeout }

## Syntax Description

flow	Enable/Disable NetFlow configuration
rtp	Real-time Transport Protocol
timeout	Define RTP Flow Error Monitoring Duration
time	Time in Minutes. Enter 0 to keep the flows even if they are idle

## Command Mode

- /exec/configure

# flow system config

[no] flow system config

Syntax Description

flow	Enable/Disable NetFlow configuration
system	Define a Flow system
config	Define a Flow system config

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
time	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
rx_flowctrl	Receive flow control
send	Send pause frames
tx_flowctrl	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 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

# 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 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 upon controlled restart

Command Mode

- /exec/configure/router-bgp

# follow

follow <name> | no follow

## Syntax Description

no	Negate a command or set its defaults
follow	Group to be followed
name	master name string to follow

## Command Mode

- /exec/configure/if-eth-any/hsrp\_ipv4 /exec/configure/if-eth-any/hsrp\_ipv6

# format

format <uri1>

Syntax Description

format	Format disks
uri1	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

# 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
msec	(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
opt_type	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
seconds	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> } } } | default copy
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
from	Map values from this
frm-list	Original list of values which are to be mapped
to	Map values to this
to-val	New mapped value
default	map default values
value	default value to be set
copy	Do a default copy

## Command Mode

- /exec/configure/def-tmap

# 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
frm-list	Original list of values which are to be mapped
to	Map values to this
to-val	New mapped value
default	map default values
value	default value to be set
copy	Do a default copy
ignore	Ignore any unspecified values

## Command Mode

- /exec/configure/table-map



# fte event

[no] fte event <eventname>

Syntax Description

fte	Enable/Disable FTE configuration
event	Define a FTE event
eventname	Event name

Command Mode

- /exec/configure/config-fte

# fte exporter

[no] fte exporter <exportername>

Syntax Description

fte	Enable/Disable Flow Table Events configuration
exporter	Define a events Exporter
exportername	Name of event Exporter

Command Mode

- /exec/configure/config-fte

# fte monitor

[no] fte monitor <monitorname>

Syntax Description

fte	Enable/Disable FTE configuration
monitor	Define a FTE Monitor
monitorname	Name of FTE Monitor

Command Mode

- /exec/configure/config-fte

# fte record

[no] fte record <recordname>

Syntax Description

fte	Enable/Disable FTE configuration
record	Define a FTE Record
recordname	Record name

Command Mode

- /exec/configure/config-fte

# fte system monitor

[no] fte system monitor <monitorname>

Syntax Description

fte	change fte global settings
system	global config
monitor	fte Monitor to be applied
monitorname	ssx Monitor to be applied

Command Mode

- /exec/configure/config-fte

# ftrace

```
ftrace [ { set-opt { option <n0> <v0> | filter <f0> <v0> } { proc <p0> | buf_size <b0> } [ <s0> ] } | { reset { all | filter <f0> | trace | <s0> } } | { enable { inband | kernel | lnd <i0> | process <i0> | trace } } | { list { filters <f0> | curr_tracer | all } } | { debug { on | off } } | { dump { all | traces } } ]
```

## Syntax Description

ftrace	Run ftrace tool to enable/disable kernel/process tracing
set-opt	(Optional) Set ftrace tracing options available
reset	(Optional) Reset ftrace options to defaults, disable tracing
enable	(Optional) Enable ftrace tracing with given options
list	(Optional) List ftrace available options/filters/events
debug	(Optional) Ftrace based debug trace enable/disable
dump	(Optional) Dump traces collected in ftrace circular buffer
all	(Optional) Act on all available datasets
lnd	(Optional) Trace proc/pid specific lnd inband driver calls
inband	(Optional) Trace inband driver + netstack functions
kernel	(Optional) Trace kernel function of sched, net, inband
process	(Optional) Trace proc/pid specific kernel function calls
trace	(Optional) Enable tracing_on in ftrace settings
option	(Optional) Name of ftrace option to be set
filter	(Optional) Set ftrace filter to be applied
proc	(Optional) Set ftrace process to be traced
buf_size	(Optional) Set ftrace buffer size limits
filters	(Optional) list available ftrace filters
curr_tracer	(Optional) Print ftrace current tracer
traces	(Optional) Dump ftrace trace buffer contents
on	(Optional) Enable ftrace based debug tracing
off	(Optional) Dump ftrace trace buffer contents
i0	(Optional) pid of process to trace
f0	(Optional) name of ftrace filter to list/set

n0	(Optional) name of ftrace option to be set
v0	(Optional) value of ftrace option/filter to be set
p0	(Optional) pid of ftrace proc to be set
b0	(Optional) value of ftrace buffer size limit to set
s0	(Optional) name of ftrace option to be set/reset

## Command Mode

- /exec







## 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

# global-block

```
{ { global-block <min-srgb-label> <max-srgb-label> } | { no global-block } }
```

## Syntax Description

no	Negate a command or set its defaults
global-block	Specify global block range for Segment Routing bindings
min-srgb-label	Minimum label value
max-srgb-label	Maximum label value

## Command Mode

- /exec/configure/config-sr-mpls

# global ingress-replication protocol bgp

[no] global ingress-replication protocol bgp

## Syntax Description

no	(Optional) Negate a command or set its defaults
global	Global configurations for nve, inherited by VNIs
ingress-replication	Configure ingress replication
protocol	Control protocol to use
bgp	Border Gateway Protocol

## Command Mode

- /exec/configure/if-nve

## global mcast-group L2

global mcast-group { <maddr> } { L2 | L3 } | no global mcast-group { L2 | L3 }

### Syntax Description

no	Negate a command or set its defaults
global	Global configurations for nve, inherited by VNIs
mcast-group	NVE Multicast Group
L2	Global mcast-group <arg> for L2 VNIs
L3	Global mcast-group <arg> for L3 VNIs
maddr	Multicast IP Prefix

### Command Mode

- /exec/configure/if-nve

# global suppress-arp

[no] global suppress-arp

Syntax Description

no	(Optional) Negate a command or set its defaults
global	Global configurations for nve, inherited by VNIs
suppress-arp	Enable ARP suppression

Command Mode

- /exec/configure/if-nve

# 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

```
graceful-restart [ timers { forwarding-holding <fdwg-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
fdwg-holdtime	(Optional) seconds
max-recovery	(Optional) Max-Recovery time
recovery-time	(Optional) seconds
neighbor-liveness	(Optional) Neighbor-Liveness time
peer-liveness-time	(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/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

[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

[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

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] 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/l2mp-isis/l2mp-isis-vrf-common

## 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
grace-period	Grace period in seconds

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
grace-period	Grace period in seconds

### 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-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
restart-time	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
stalepath-time	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
sec	Specify T3 value (secs)

## Command Mode

- /exec/configure/l2mp-isis/l2mp-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
sec	Specify T3 value (secs)

## Command Mode

- /exec/configure/router-isis/router-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
sec	Specify T3 value (secs)

## Command Mode

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



## graceful-shutdown activate

[no] graceful-shutdown activate [ route-map <rmap-name> ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
graceful-shutdown	Graceful-shutdown for BGP protocol
activate	Send graceful-shutdown community on all routes
route-map	(Optional) Apply route-map to modify attributes for outbound
rmap-name	(Optional) Route-map name

### Command Mode

- /exec/configure/router-bgp

## graceful-shutdown activate

[ no | default ] graceful-shutdown activate [ route-map <rmap-name> ]

Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
graceful-shutdown	Graceful-shutdown for this neighbor
activate	Send graceful-shutdown community
route-map	(Optional) Apply route-map to modify attributes for outbound
rmap-name	(Optional) Route-map name

Command Mode

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

# graceful-shutdown aware

[no] graceful-shutdown aware

Syntax Description

no	(Optional) Negate a command or set its defaults
graceful-shutdown	Graceful-shutdown for BGP protocol
aware	Lower preference of routes carrying graceful-shutdown community

Command Mode

- /exec/configure/router-bgp

# 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	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
-i	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
-n	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
-v	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
-w	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
-x	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
ctx	(Optional) Print <num> lines of context on each side of every match
-A	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
-B	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
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
--	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
expr	Search for the expression

## Command Mode

- /output

## group drop-events

[no] group drop-events

Syntax Description

group	Group for which the events need to be set
drop-events	Set events for drops

Command Mode

- /exec/configure/config-fte-event



## group latency-events

[no] group latency-events

Syntax Description

group	Group for which the events need to be set
latency-events	Set events for latency events

Command Mode

- /exec/configure/config-fte-event

# 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
export_uri	(Optional) Destination file or directory path
disable	(Optional) Disable the guest shell service package
destroy	(Optional) Disable and uninstall the guest shell service package
sync_cmd_name	(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
gsh_rootfs	(Optional) New root filesystem size (in MB)
cpu	(Optional) System CPU share allocated to guest shell
gsh_cpu	(Optional) New CPU share allocation (as % of system CPU)
memory	(Optional) System memory allocated to guest shell
gsh_memory	(Optional) New memory size (in MB)
package	(Optional) Package location
enable_uri	(Optional) File name for the virtual service
upgrade_uri	(Optional) File name for the virtual service
run	(Optional) Execute/run program in the guest shell
cmd_args	(Optional) Executable with optional arguments

## Command Mode

- /exec

# gunzip

gunzip <uri0>

Syntax Description

gunzip	Uncompresses LZ77 coded files
uri0	Enter filename (filename must have .gz extension)

Command Mode

- /exec

# gzip

gzip <uri0>

Syntax Description

gzip	Compresses file using LZ77 coding
uri0	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
hap-change	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
sw-change	Set hap policy

Command Mode

- /exec/configure/vdc



# hardware-telemetry fte

[no] hardware-telemetry fte

Syntax Description

hardware-telemetry	Hardware telemetry configuration
fte	Enable/Disable Flow Table Events configuration

Command Mode

- /exec/configure

## hardware-telemetry inband-telemetry

[no] hardware-telemetry inband-telemetry

Syntax Description

hardware-telemetry	Hardware telemetry configuration
inband-telemetry	Enable/Disable inband telemetry configuration

Command Mode

- /exec/configure

# hardware-telemetry postcard-telemetry

[no] hardware-telemetry postcard-telemetry

Syntax Description

hardware-telemetry	Hardware telemetry configuration
postcard-telemetry	Enable/Disable postcard telemetry configuration

Command Mode

- /exec/configure

# hardware-telemetry ssx

[no] hardware-telemetry ssx

Syntax Description

hardware-telemetry	Hardware Telemetry Configurations
ssx	enable Streaming Statistics Exporter Configurations

Command Mode

- /exec/configure

# 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
threshold	value of threshold

## 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
type	Region type
tcam_size	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
double-wide-region	Region type
tcam_size	Enter tcam size
double-wide	Double Width

### Command Mode

- /exec/configure

## hardware ecmp hash-offset

[no] hardware ecmp hash-offset <value> [ concatenation ] | no hardware ecmp hash-offset

### Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Change hardware usage settings
ecmp	ECMP configuration
hash-offset	Configure hash offset
value	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
poly-type	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
fan_zone_id	please enter fan zone id whose speed needs to be increased
raise-speed	Speed to be added for current fan zone speed
speed-to-raise	please enter additional fan speed

### Command Mode

- /exec/configure

## 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
count	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
timeout-in-sec	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
count	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
timeout-in-sec	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 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	Buffer
info	Information
poll-interval	System buffer status polling interval
module	(Optional) Slot/module
module	(Optional) Slot/module number
timer	Polling timer
msec	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	Buffer
info	Information
port-threshold	Set port egress buffer usage threshold
module	(Optional) Slot/module
module	(Optional) Slot/module number
threshold	threshold value
value	percentage of maximum usage

### 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
percentage	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 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+
port-mode	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
ipv6_alpm_carve_value	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
ipv6_lpm_max_entry	maximum entries

Command Mode

- /exec/configure

## hardware profile mpls adjacency-stats bytes

[no] hardware profile mpls adjacency-stats bytes

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Hardware Internal Information
profile	Profile
mpls	MPLS Statistics Mode
adjacency-stats	adjacency-stats
bytes	Bytes Only

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
mcast-ent	Mcast Table Entries

### Command Mode

- /exec/configure

# hardware profile multicast optimization disable

[no] hardware profile multicast optimization disable

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Set hardware profile
profile	Profile settings
multicast	set multicast profile
optimization	set multicast optimization profile
disable	set the multicast optimization disable profile

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
max-limit	(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
port-num	loopback port-num

### 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
percentage	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	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
default	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
drop	(Optional) Drop all frames that miss MAC
normal	(Optional) [default]Flood unknown traffic

### Command Mode

- /exec/configure

# hardware profile packet-drop

[no] hardware profile packet-drop

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Change hardware usage settings
profile	Profile settings
packet-drop	Configure Packet Drop parameters

Command Mode

- /exec/configure

## hardware profile pbr ecmp paths

[no] hardware profile pbr ecmp paths <maxpath>

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Change hardware usage settings
profile	profile settings
pbr	Policy based routing
ecmp	Equal cost multi path
paths	ecmp path
maxpath	Maximum ecmp paths

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
percentage	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
port-mode	Configure QSFP port mode
2-tuple	(Optional) Display QSFP portnames in 2-tuple mode even in 10G mode

## Command Mode

- /exec/configure

## hardware profile statistics pstat

[no] hardware profile statistics pstat [ peak ]

Syntax Description

no	(Optional) Negate the command
hardware	Configure hardware profile setting
profile	profile settings
statistics	hardware stats
pstat	Enable Pstat default is instantaneous
peak	(Optional) Peak stats

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 PACL size
double-wide	(Optional) Configure tcam as double wide
nat	NAT size
tcam_compat_type	
tcam_compat_size	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
udf_name	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
udf_name	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
udf_name	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
name	Select name of template
module	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
lc	(Optional) line card number
fm	(Optional) fabric module number

### Command Mode

- /exec/configure handle auto 424



## hardware profile tcam syslog-threshold

{ hardware profile tcam syslog-threshold <percentage> } | { no hardware profile tcam syslog-threshold }

### Syntax Description

no	Negate a command or set its defaults
hardware	Change hardware usage settings
profile	Profile settings
tcam	Configure tcam parameters
syslog-threshold	TCAMs syslog threshold
percentage	Percentage

### 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
unicast-ent	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
unicast-ent	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
percentage	Percentage

### Command Mode

- /exec/configure

## hardware qos fc rate-shaper

[no] hardware qos fc rate-shaper [ low ]

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Hardware Internal Information
qos	Configure qos related configuration
fc	Fibre Channel interface related configuration
rate-shaper	Rate Shaper for FC interface
low	(Optional) Configure FC interface low rate shaper

Command Mode

- /exec/configure

# hardware qos pfc mc-drop

[no] hardware qos pfc mc-drop

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Hardware Internal Information
qos	Configure qos related configuration
pfc	Priority-flow-control specific configuration
mc-drop	Multicast packets are dropped in lossless queue

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
num	slot number
redirect-interface	Interface for redirecting the traffic
interface	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)
lines	(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
interval	(seconds)

## Command Mode

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

# hello-interval

```
{ { hello-interval <interval> } | { no hello-interval [ <interval> ] } }
```

## Syntax Description

no	Negate a command or set its defaults
hello-interval	Hello interval
interval	(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
interval	(seconds)

## Command Mode

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

# 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	
interval	(Optional) buckets
distributions-of-statistics-kept	hours-of-statistics-kept
statistics-distribution-interval	
default	Set a command to its defaults
history	History and Distribution Data
enhanced	Enable enhanced history collection
interval-seconds	(Optional) Interval in seconds
buckets	(Optional) Number of buckets to collect data
num-buckets	(Optional) Number of buckets
hours-of-statistics-kept	Maximum number of statistics hour groups to capture

## Command Mode

- /exec/configure/ip-sla/jitter

# 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	
interval	(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
interval-seconds	(Optional) Interval in seconds
buckets	(Optional) Number of buckets to collect data
num-buckets	(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

interval	(Optional) buckets
interval-seconds	(Optional) <num-buckets>
life-size-value	<dist-interval>
history	History and Distribution Data
buckets-kept	Maximum number of history buckets to collect
num-buckets-kept	Bucket size value (default 15)
distributions-of-statistics-kept	Maximum number of statistics distribution buckets to capture
num-dist-stats	Distribution bucket size value (default 1)
enhanced	Enable enhanced history collection
buckets	(Optional) Number of buckets to collect data
num-buckets	(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
num-hours-of-stats	Hour groups size value (default 2)
lives-kept	Maximum number of history lives to collect
statistics-distribution-interval	Statistics distribution interval size
dist-interval	Distribution interval value in msec (default 20ms), Value in usec if precision microsecond is enabled

## 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

dist-interval	<num-buckets-kept>
num-hours-of-stats	<life-size-value>
distributions-of-statistics-kept	hours-of-statistics-kept
statistics-distribution-interval	
history	History and Distribution Data
buckets-kept	Maximum number of history buckets to collect
num-buckets-kept	Bucket size value (default 15)
num-dist-stats	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
life-size-value	Life size value (default 0)

## Command Mode

- /exec/configure/ip-sla/dns /exec/configure/ip-sla/fabricPathEcho /exec/configure/ip-sla/http

# 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

interval	(Optional) buckets
num-buckets	(Optional) <num-hours-of-stats>
enhanced	hours-of-statistics-kept
history	History and Distribution Data
distributions-of-statistics-kept	Maximum number of statistics distribution buckets to capture
num-dist-stats	Distribution bucket size value (default 1)
interval-seconds	(Optional) Interval in seconds
buckets	(Optional) Number of buckets to collect data
hours-of-statistics-kept	Maximum number of statistics hour groups to capture
num-hours-of-stats	Hour groups size value (default 2)
statistics-distribution-interval	Statistics distribution interval size
dist-interval	Distribution interval value in msec (default 20ms), Value in usec if precision microsecond is enabled

## Command Mode

- /exec/configure/ip-sla/jitter

# 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
secs	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
limit	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
limit	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
val	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
controller-id	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
hostaddr	A.B.C.D Host address
addr	A.B.C.D Network address of object-group member
mask	A.B.C.D wildcard
prefix	A.B.C.D/nn Network prefix of the object-group member

## Command Mode

- /exec/configure/objgroup

# host group permit

```
{ <seq> host <hostip> group <range> { permit | deny } } | { no <seq> [ host <hostip> group <range> { permit | deny } ] }
```

## Syntax Description

no	Negate a command or set its defaults
seq	Sequence Number
host	Host IP Address
hostip	Host IP Address
group	Configure explicit group ranges
range	Group Prefix
permit	Admission Permitted
deny	Admission Denied

## Command Mode

- /exec/configure/nbm-vrf/nbm-host-policy/sender

# host group permit

```
{ <seq> host <hostip> group <range> { permit | deny } } | { no <seq> [ host <hostip> group <range> { permit | deny } ] }
```

## Syntax Description

no	Negate a command or set its defaults
seq	Sequence Number
host	Host IP Address
hostip	Host IP Address
group	Configure explicit group ranges
range	Group Prefix
permit	Admission Permitted
deny	Admission Denied

## Command Mode

- /exec/configure/nbm-host-policy/sender

## host source group permit

```
{ <seq> host <hostip> source <sourceip> group <range> { permit | deny } } | { no <seq> [ host <hostip>
source <sourceip> group <range> { permit | deny } ] }
```

### Syntax Description

no	Negate a command or set its defaults
seq	Sequence Number
host	Host IP Address
hostip	Host IP Address value
source	Source IP Address
sourceip	Source IP Address value
group	Configure explicit group ranges
range	Group Prefix
permit	Admission Permitted
deny	Admission Denied

### Command Mode

- /exec/configure/nbm-vrf/nbm-host-policy/receiver

# host source group permit

```
{ <seq> host <hostip> source <sourceip> group <range> { permit | deny } } | { no <seq> [ host <hostip>  
source <sourceip> group <range> { permit | deny } ] }
```

## Syntax Description

no	Negate a command or set its defaults
seq	Sequence Number
host	Host IP Address
hostip	Host IP Address value
source	Source IP Address
sourceip	Source IP Address value
group	Configure explicit group ranges
range	Group Prefix
permit	Admission Permitted
deny	Admission Denied

## Command Mode

- /exec/configure/nbm-host-policy/receiver

# 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
name	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



# 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/l2mp-isis/l2mp-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
group-id	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
id	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
min-delay	<0-10000> Delay in seconds
reload-delay	<0-10000> Delay in seconds

### 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
vlans	VLAN IDs of the VLAN for which state change will affect

### 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
group-id	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
time	(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
extended-hold	(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)
cache	(Optional) enable
proxy	(Optional) <proxy-info>
source-ip	(Optional) <source-ip-hostname>
source-port	(Optional) <src-port>
version	(Optional) <http-version>
http	HTTP Operation
get	HTTP get operation
WORD	URL
enable	(Optional) enable download of cached entries (default)
disable	(Optional) disable download of cached entries (default)
proxy-info	(Optional) proxy information string
source-ip-hostname	(Optional) source IP hostname, broadcast disallowed
source-ip-address	(Optional) source IP address, broadcast disallowed
src-port	(Optional) Port Number (Recommended port range between 1025-65534)
http-version	(Optional) Supported HTTP versions are '1.0' and '1.1'.

## Command Mode

- /exec/configure/ip-sla

## http proxy server

[no] http proxy server <hostipname> [ port <port-num> ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
http	Configure http related parameters
proxy	Http Proxy related parameters
server	Server address
hostipname	IPV4/IPV6 address or DNS name of proxy server
port	(Optional) Http proxy server port
port-num	(Optional) port number

### Command Mode

- /exec/configure/trustpool

# 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 [ { 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
module	(Optional) Enter module number
obfl-logs	(Optional) Enable/Disable OBFL (boot-uptime/device-version/obfl-history)

### Command Mode

- /exec/configure

## 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
module	(Optional) Enter module number

### Command Mode

- /exec/configure



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## icam monitor entries acl

```
[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	(Optional) Module Number
module	(Optional) Enter Module Number
inst	(Optional) ASIC/Forwarding Engine Instance Number
inst	(Optional) Enter Instance Number

### Command Mode

- /exec/configure

# icam monitor scale

[no] icam monitor scale

Syntax Description

no	(Optional) Negate a command or set its defaults
icam	intelligent CAM
monitor	icam monitor
scale	icam monitor scale

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 <interface> ] }
```

## Syntax Description

no	(Optional)
source-ip	(Optional) source-interface
icmp-echo	ICMP Echo Operation
hostname	Destination hostname, broadcast disallowed
ip-address	Destination IP address, broadcast disallowed
source-interface	(Optional) Source Interface (ingress icmp packet interface)
interface	(Optional) Source Interface
source-ip-hostname	(Optional) source IP hostname, broadcast disallowed
source-ip-address	(Optional) source IP address, broadcast disallowed

## Command Mode

- /exec/configure/ip-sla

# id

[no] id <id>

Syntax Description

no	(Optional) Negate a command or set its defaults
id	Candidate path association group identifier
id	Association group Identifier id

Command Mode

- /exec/configure/sr/te/pol/cndpaths/pref/constraint/assoc/type-disj

# id

[no] id <id>

Syntax Description

no	(Optional) Negate a command or set its defaults
id	Candidate path association group identifier
id	Association group Identifier id

Command Mode

- /exec/configure/sr/te/color/cndpaths/pref/constraint/assoc/type-disj

# ignore routable

[no] ignore routable

Syntax Description

no	(Optional) Negate a command or set its defaults
----	---

Command Mode

- /exec/configure/ipacl /exec/configure/ipv6acl

# import

import

Syntax Description

import	import
--------	--------

Command Mode

- /exec/configure

# import interface

import interface <if0>

Syntax Description

import	import
interface	Interface configuration
if0	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
import-map	(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
rmap-name	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
import-map	(Optional) Route-map name

## Command Mode

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

# import vrf advertise-vpn

[no] import vrf advertise-vpn

Syntax Description

no	(Optional) Negate a command or set its defaults
import	VRF import
vrf	Virtual Router Context
advertise-vpn	Allow leaked routes to be advertised to VPN

Command Mode

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

## import vrf default map

[no] import vrf default [ <prefix-limit> ] map <rmap-name> [ advertise-vpn ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
import	VRF import
vrf	Virtual Router Context
default	VRF name (default)
prefix-limit	(Optional) Maximum prefix limit (Default value is 1000)
map	Route-map based VRF import
rmap-name	Route-map name
advertise-vpn	(Optional) Allow leaked routes to be advertised to VPN

### 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
static-inlabel	Label Value
prefix	(Optional) Destination prefix
mask	(Optional) Destination prefix mask
prefix-mask	(Optional) Destination prefix/mask

### Command Mode

- /exec/configure/mpls\_static/ipv4/lsp

# inband-telemetry exporter

[no] inband-telemetry exporter <exportername>

Syntax Description

inband-telemetry	Enable/Disable inband telemetry configuration
exporter	Define a events Exporter
exportername	Name of event Exporter

Command Mode

- /exec/configure/config-int



# inband-telemetry flow-profile

[no] inband-telemetry flow-profile

Syntax Description

inband-telemetry	Enable/Disable inband telemetry configuration
flow-profile	Define a INT flow-profile

Command Mode

- /exec/configure/config-int

## inband-telemetry monitor

[no] inband-telemetry monitor <monitorname>

Syntax Description

inband-telemetry	Enable/Disable inband telemetry configuration
monitor	Define a INT Monitor
monitorname	Name of INT Monitor

Command Mode

- /exec/configure/config-int

## inband-telemetry queue-profile

[no] inband-telemetry queue-profile [ <queue\_profilename> | queue-profile-default ]

### Syntax Description

inband-telemetry	Enable/Disable inband telemetry configuration
queue-profile	Define a INT queue_profile
queue_profilename	(Optional) Name of INT queue_profile
queue-profile-default	(Optional) Queue Profile Default Configuration

### Command Mode

- /exec/configure/config-int

# inband-telemetry record

[no] inband-telemetry record <recordname>

Syntax Description

inband-telemetry	Enable/Disable inband telemetry configuration
record	Define a INT Record
recordname	Record name

Command Mode

- /exec/configure/config-int

# inband-telemetry system monitor

[no] inband-telemetry system monitor <monitorname>

Syntax Description

system	global config
inband-telemetry	int global settings
monitor	int Monitor to be applied
monitorname	int Monitor to be applied

Command Mode

- /exec/configure/config-int

## inband-telemetry watchlist ip

[no] inband-telemetry watchlist ip <watchlistname>

Syntax Description

inband-telemetry	Enable/Disable inband telemetry configuration
watchlist	Define a INT watchlist
ip	Configure INT IP watchlist
watchlistname	Name of INT watchlist

Command Mode

- /exec/configure/config-int

# include-all

[no] include-all

Syntax Description

no	(Optional) Negate a command or set its defaults
include-all	Configure include-all Affinity Constraints

Command Mode

- /exec/configure/sr/te/color/cndpaths/pref/constraint/aff

# include-all

[no] include-all

Syntax Description

no	(Optional) Negate a command or set its defaults
include-all	Configure include-all Affinity Constraints

Command Mode

- /exec/configure/sr/te/pol/cndpaths/pref/constraint/aff



# include-any

[no] include-any

Syntax Description

no	(Optional) Negate a command or set its defaults
include-any	Configure include-any Affinity Constraints

Command Mode

- /exec/configure/sr/te/pol/cndpaths/pref/constraint/aff

# include-any

[no] include-any

Syntax Description

no	(Optional) Negate a command or set its defaults
include-any	Configure include-any Affinity Constraints

Command Mode

- /exec/configure/sr/te/color/cndpaths/pref/constraint/aff

# include-icv-indicator

[no] include-icv-indicator

Syntax Description

include-icv-indicator	Include ICV Indicator paramset in MKPDU
-----------------------	---

Command Mode

- /exec/configure/macsec-policy

# 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
all_conf_profile_name	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 mpls label

{ no index <idx> | index <idx> mpls label <lbl> }

## Syntax Description

no	Negate a command or set its defaults
index	Next entry index
idx	Index number
mpls	MPLS Label
label	Label Configuration
lbl	MPLS Label value

## Command Mode

- /exec/configure/sr/te/exp\_seg\_list

# 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)
index	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
ipaddr	Enter IP address (A.B.C.D)

## Command Mode

- /exec/configure/te/expl-path

# 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 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
interface-ref	
next-hop	(Optional) next hop ip address
ip-addr	(Optional) Next hop IPv4 address connected to ingress intrerface

Command Mode

- /exec/configure/plb /exec/configure/plb-inout

# 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
interface-ref	
next-hop	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
ip-addr	(Optional) Next hop IPv4 address connected to ingress interface

## Command Mode

- /exec/configure/itd /exec/configure/itd-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
peer-policy-template-name	Template name
policy-preference	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-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
peer-policy-template-name	Template name
policy-preference	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-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
peer-session-template-name	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
peer-template-name	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
s0	Enter the name of the profile
s1	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
time-in-sec	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
time-in-sec	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
inject-map-name	Route-map name
exist-map	Routemap which specifies exist condition
exist-map-name	Route-map name
copy-attributes	(Optional) Copy attributes from aggregate

### Command Mode

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

# innoshell

innoshell

Syntax Description

innoshell	Invoke
-----------	--------

Command Mode

- /exec

# install activate

install activate <patch> + [ forced ]

Syntax Description

install	Install package
activate	Activate package
patch	Package Name
forced	(Optional) non-interactive

Command Mode

- /exec

# install add

```
install add { <package-name> | <uri1> } [ vrf <vrf-known-name> ] [ { gpg-key | [ activate [ upgrade | downgrade ] ] [ forced ] } ]
```

## Syntax Description

install	Install package
add	Add package
package-name	Package name
uri1	Enter package uri
vrf	(Optional) Display per-VRF information
vrf-known-name	(Optional) Known VRF name
gpg-key	(Optional) GPG-KEY
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> | package <uri4> | serial | ignore-script-errors ] +
[ force ] [ non-disruptive | no-reload | noswitchover ] [ bios | no-save ] [ bios-force ] [ non-interruptive ] [
compact ] [ override ] | force-all [ nxos <uri> | serial | ignore-script-errors ] + [ non-disruptive ] [ force ] }
```

## Syntax Description

install	upgrade software
all	Upgrade the system
ignore-script-errors	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
kickstart	(Optional) boot-variable name
uri1	(Optional) Enter image uri
system	(Optional) boot-variable name
uri3	(Optional) Enter image uri
no-reload	(Optional) Exit right before reload during install.
noswitchover	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
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	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
non-disruptive	(Optional) Non-Disruptive install.
compact	(Optional) Compact image to make it nexus 3k only
override	(Optional) Ignore script errors from dynamic confcheck
nxos	(Optional) boot-variable name
uri	(Optional) Enter image uri
serial	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
package	(Optional) package name
uri4	(Optional) Enter package uri
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
uri	Enter image uri

Command Mode

- /exec

# install commit

install commit [ <patch> ]

Syntax Description

install	Install package
commit	Commit software patch
patch	(Optional) Package Name

Command Mode

- /exec

# install deactivate

install deactivate <patch> + [ forced ]

Syntax Description

install	Install package
deactivate	Deactivate package
patch	Package Name[Note: startup configuration may get affected]
forced	(Optional) non-interactive

Command Mode

- /exec

# install epld

```
install epld <uri1> { { module { <module> | all } [ force ] } }
```

## Syntax Description

install	upgrade software
epld	Install EPLD from EPLD image
uri1	Local URI containing EPLD Image
module	Enter the module number or module range
module	x or x-y
all	Install all the modules
force	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

## 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 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> ] [ format ]
```

## Syntax Description

install	upgrade software
license	install license
uri0	Specify URL for license file
s0	(Optional) Specify a target name for the license file
format	(Optional) Reformat the license file to remove invalid characters and formatting

## Command Mode

- /exec

# install license

install license <uri0> [ <s0> ]

Syntax Description

install	upgrade software
license	install license
uri0	Specify URL for license file
s0	(Optional) Specify a target name for the license file

Command Mode

- /exec



# install remove

install remove { <patch> | inactive } [ forced ]

## Syntax Description

install	Install package
remove	Remove package
patch	Package Name
inactive	All inactive except non-committed packages
forced	(Optional) Remove package

## Command Mode

- /exec

# install reset

```
install reset [ nxos { base | full } ]
```

## Syntax Description

install	Install package
reset	Reload nxos with default packages
nxos	(Optional) Reloading with basenxos from fullnxos and vice-versa
base	(Optional) Reload with basenxos after resetting
full	(Optional) Reload with fullnxos after resetting

## Command Mode

- /exec

# install verify

```
install verify { <uri1> | package <patch> }
```

Syntax Description

install	Install package
verify	Verify package for signature
uri1	Enter package uri
package	Enter active/inactive package
patch	Package Name

Command Mode

- /exec

# 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
iid	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
plistinst	Enter the name of the parameter list instance
cross-check	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

## 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
instance-id	MST instance id
vlan	(Optional) Range of vlans to add to the instance mapping
vlan-list	(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
instance-id	MST instance id
vlan	Range of vlans to add to the instance mapping
vlan-list	vlan range ex: 1-65, 72, 200 - 300

## Command Mode

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

# interface

[no] interface <interface-id>

Syntax Description

no	(Optional) Negate a command or set its defaults
interface	Applied interface
interface-id	Name of interface

Command Mode

- /exec/configure/static-host/dot1q /exec/configure/static-host/vni



# interface

[no] interface <interface-ref>

Syntax Description

no	(Optional) Negate a command or set its defaults
interface	egress interface
interface-ref	

Command Mode

- /exec/configure/catena-port-grp

# interface

{ interface <interface-range> } | { no interface }

## Syntax Description

no	Negate a command or set its defaults
interface	Configure ngoam egress interface
interface-range	Configure ngoam egress interface

## Command Mode

- /exec/configure/configngoamprofile

# interface

[no] interface <interface>

Syntax Description

no	(Optional) Negate a command or set its defaults
interface	Configure interfaces
interface	Interface Name

Command Mode

- /exec/configure

# interface

[no] interface <interface>

Syntax Description

no	(Optional) Negate a command or set its defaults
interface	Configure interfaces
interface	Interface Name

Command Mode

- /exec/configure

# interface

[no] interface <interface>

Syntax Description

no	(Optional) Negate a command or set its defaults
interface	Configure interfaces
interface	Interface Name

Command Mode

- /exec/configure

# interface

[no] interface <interface>

Syntax Description

no	(Optional) Negate a command or set its defaults
interface	Configure interfaces
interface	Interface Name

Command Mode

- /exec/configure

# interface

[no] interface <interface>

Syntax Description

no	(Optional) Negate a command or set its defaults
interface	Configure interfaces
interface	Interface Name

Command Mode

- /exec/configure

# interface

[no] interface <interface>

Syntax Description

no	(Optional) Negate a command or set its defaults
interface	Configure interfaces
interface	Interface Name

Command Mode

- /exec/configure



# interface

[no] interface <interface>

Syntax Description

no	(Optional) Negate a command or set its defaults
interface	Configure interfaces
interface	Interface Name

Command Mode

- /exec/configure

# interface

[no] interface <interface>

Syntax Description

no	(Optional) Negate a command or set its defaults
interface	Configure interfaces
interface	Interface Name

Command Mode

- /exec/configure

# interface

interface <interface>

Syntax Description

interface	Configure interfaces
interface	Interface Name

Command Mode

- /exec/configure

# interface

[no] interface <interface>

Syntax Description

no	Negate a command or set its defaults
interface	Configure interfaces
interface	Interface Name

Command Mode

- /exec/configure

# interface

[no] interface <interface>

Syntax Description

no	(Optional) Negate a command or set its defaults
interface	Configure interfaces
interface	Interface Name

Command Mode

- /exec/configure

# interface

[no] interface <interface>

Syntax Description

no	(Optional) Negate a command or set its defaults
interface	Configure interfaces
interface	Interface Name

Command Mode

- /exec/configure

# interface

```
[no] interface <if_list> { [ qos-group <ucastqos-grp> ] }
```

## Syntax Description

no	(Optional) Negate the command
interface	Configure capture-scope parameters
if_list	List of interfaces
qos-group	(Optional) Specify qos-group to be associated
ucastqos-grp	(Optional) Value 0-7

## Command Mode

- /exec/configure/pkt-drop/profile

# interface

[no] interface <intf>

Syntax Description

no	(Optional) Negate a command or set its defaults
interface	Specify the srte interface
intf	Interface name

Command Mode

- /exec/configure/sr/te



# interface

[no] interface <interface-ref>

Syntax Description

no	(Optional) Negate a command or set its defaults
interface	egress interface
interface-ref	

Command Mode

- /exec/configure/itd-port-grp

# interface breakout module

```
interface breakout module <module> [ map <breakout_map> ]
```

## Syntax Description

interface	Configure interfaces
breakout	Configuring the breakout for a module
module	High Bandwidth Module
module	High Bandwidth Module number
map	(Optional) Breakout Map
breakout_map	(Optional) Breakout Map to be applied to all the ports in this module

## Command Mode

- /exec/configure

# interface breakout module

[no] interface breakout module <module> [ map <breakout\_map> ]

## Syntax Description

no	Negate a command or set its defaults
interface	Configure interfaces
breakout	Configuring the breakout for a module
module	High Bandwidth Module
module	High Bandwidth Module number
map	(Optional) Breakout Map
breakout_map	(Optional) Breakout Map to be applied to all the ports in this module

## 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
module	High Bandwidth Module number
port	High Bandwidth Port(HBP)
port_num	Parent(HBP / Front-panel) port to be broken out
map	Breakout Map
breakout_map	Breakout Map to be applied to the parent port

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
module	High Bandwidth Module number
port	High Bandwidth Port(HBP)
port_num	Parent(HBP / Front-panel) port to be broken out
map	Breakout Map
breakout_map	Breakout Map to be applied to the parent port

## Command Mode

- /exec/configure

# interface down delay

[no] interface down delay |

Syntax Description

down	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

[no] interval <timeinterval>

## Syntax Description

interval	Time interval to be configured
timeinterval	time interval in increments of 100ms

## Command Mode

- /exec/configure/config-ssx-record



# interval

{ interval <interval> }

## Syntax Description

interval	Wait
interval	Interval

## Command Mode

- /exec/configure/configngoamconnectcheck

# 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
gaddr	IPv4 group address
group-range	Multicast Group address range
gaddr_start	First Group address
to	Range
gaddr_end	Last Group address

## Command Mode

- /exec/configure/nbm-flow-policy/attr

# ip

```
{ [ no ] <seqnum> <permitdeny> { ip { <src_prefix> | <src_any> } { <dst_prefix> | <dst_any> } } } | { no <seqnum> }
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
seqnum	Sequence number
ip	ip
permitdeny	permitdeny
src_prefix	A.B.C.D/nn Source network prefix
src_any	Any source address
dst_prefix	A.B.C.D/nn Destination network prefix
dst_any	Any destination address

## Command Mode

- /exec/configure/config-int-watchlist

# 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
ipaddress	(Optional) Virtual IP address
ipprefix	(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

```
{ { ip <dstip> <srcip> | ipv6 <dstipv6> <srcipv6> } }
```

## Syntax Description

ip	ip address
dstip	Destination ipv4 address
srcip	source ipv4 address
ipv6	ipv6 address

## Command Mode

- /exec/configure/configngoamccpayload

# ip

[no] ip <ipaddr>

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	ip address of redundancy group member
ipaddr	Redundancy-group node IP address

Command Mode

- /exec/configure/if-nve/rgrp

## ip

```
{ [ no ] <seqnum> <permitdeny> { ip { <src_prefix> | <src_any> } { <dst_prefix> | <dst_any> } } } | { no <seqnum> }
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
seqnum	Sequence number
ip	ip
permitdeny	permitdeny
src_prefix	A.B.C.D/nn Source network prefix
src_any	Any source address
dst_prefix	A.B.C.D/nn Destination network prefix
dst_any	Any destination address

## Command Mode

- /exec/configure/config-postcard-watchlist



# 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
gaddr	IPv4 group address
group-range	Multicast Group address range
gaddr_start	First Group address
to	Range
gaddr_end	Last Group address

## Command Mode

- /exec/configure/nbm-vrf/nbm-flow-policy/attr

## 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
name	List name
inout	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
name	List name
inout	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
name	List name
client	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
clienttype	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
clientID	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

### 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
ip-addr	(Optional) IP address in format i.i.i.i
ip-mask	(Optional) IP network mask in format m.m.m.m
ip-prefix	(Optional) IP prefix and network mask length in format x.x.x.x/m
route-preference	(Optional) URIB route preference for local/direct routes
pref	(Optional) Local/direct route preference
tag	(Optional) URIB route tag value for local/direct routes
tag	(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 ipv6 address port

[no] { ip address <ip4> | ipv6 address <ip6> } port <portnum> [ protocol <proto> encoding <encoder> ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Set destination IPv4 address
ipv6	Set destination IPv6 address
address	IP address
port	Set destination port
protocol	(Optional) Set transport protocol
encoding	(Optional) Set encoding format
ip4	Destination IPv4 Address
portnum	Destination port
proto	(Optional)
encoder	(Optional) Set encoding type for this destination

### Command Mode

- /exec/configure/telemetry/destination-group



## 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
ip-addr	IP address in format i.i.i.i
ip-mask	IP network mask in format m.m.m.m
ip-prefix	IP prefix and network mask length in format x.x.x.x/m
secondary	Configure additional IP addresses on interface
route-preference	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
pref	(Optional) Local/direct route preference
tag	(Optional) URIB route tag value for local/direct routes
tag	(Optional) Local/direct tag value

### Command Mode

- /exec/configure/if-igp /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 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
pref	preference

### Command Mode

- /exec/configure

## 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
prefix	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 join-policy

```
{ [ no ] { ip | ipv6 } amt join-policy <jroute-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
jroute-map	Route-map describing (S,G) entries allowed
gateway	(Optional) Configure join-policy per gateway
groute-map	(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
qqic-value	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
address	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
limit	Number of entries total or per AMT gateway
gateway	(Optional) Configure state limit per gateway
route-map	(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
limit	Number of tunnels

### Command Mode

- /exec/configure /exec/configure/vrf

# 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
ip-address	IP address
mac-address	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 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
max	Maximum number of ARP entries
syslog	(Optional) Syslog messages
rate	(Optional) Syslogs per second

## 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
cosval	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
time-out	Refresh value in milliseconds

## Command Mode

- /exec/configure/if-vlan-common

## ip arp evpn timeout

{ ip arp evpn timeout <time-out> } | { no ip arp evpn timeout }

### Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
arp	Configure ARP parameters
evpn	In EVPN topology
timeout	ARP timeout
time-out	Refresh in EVPN on host moves. supported range is (2000-30000) ms

### 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-igmp /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
arp-acl-name	Access list name
vlan	Vlan range
vlan-range	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
number1	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

logging	(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
vlan-id	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 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
time	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

[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
rate	RARP frames-per-second

Command Mode

- /exec/configure

## 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
vlan-id	(Optional) Vlan
ip-address	(Optional) IP address

### Command Mode

- /exec

## 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
time-out	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 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
time-out	Time-out value in seconds

### Command Mode

- /exec/configure/config-mgmt /exec/configure/if-igp



# 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
time-out	Time-out value in seconds

## Command Mode

- /exec/configure

## 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
aspl-name	AS path access list name
aspl-name	Known as-path access-list name
timeout	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
sec	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
deny	Specify packets to reject
permit	Specify packets to forward
line	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
eigrp-ptag	Process tag
chain	name of key-chain
mode	mode
eigrp	EIGRP interface configuration commands
md5	Keyed message digest
eigrp-ptag	

## 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
eigrp-ptag	Process tag
percent	Maximum bandwidth percentage that EIGRP may use
eigrp-ptag	

### 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
eigrp-ptag	Process tag
bw	Bandwidth in kilobits
eigrp-ptag	

### Command Mode

- /exec/configure/if-igp



## 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
name	Name of expanded community list
timeout	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
sec	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
deny	Specify community to reject
permit	Specify community to accept
line	Regular-expression(must

### Command Mode

- /exec/configure

## 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
eigrp-ptag	Process tag
delay	Throughput delay
picoseconds	(Optional) Delay units in picoseconds
eigrp-ptag	

### 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
addr	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
format-string	(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
ip-addr-val	(Optional) IP address
use-vrf	(Optional) helper address VRF membership
vrf-name	(Optional) VRF name

### Command Mode

- /exec/configure/if-igp /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-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
interface-name	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
format-string	(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 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
vlan-id10	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
format-string	(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
vlan-id10	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
acl-name	(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
eigrp-ptag	Process tag
route-map	Use a route-map for route filtering
map	Route-map name
prefix-list	Use a prefix-list for route filtering
list	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
ifnum	Source interface
vrf	(Optional) Configure VRF
vrf-name	(Optional) VRF name
vrf-known-name	(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
s0	Enter a domain
s1	Enter a domain
use-vrf	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
vrf-name	(Optional) VRF name
vrf-known-name	(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
s0	Enter the default domain
s1	Enter the default domain
use-vrf	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
vrf-name	(Optional) VRF name
vrf-known-name	(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.
dscp-val	Specify DSCP value for Locally Originated packets for IPv4 and IPv6
dscp-enum	

### Command Mode

- /exec/configure

# ip dscp

[no] ip dscp <dscp\_value>

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Set ERSPAN IP options
dscp	Set the IP DSCP value
dscp_value	

## Command Mode

- /exec/configure/config-monitor-erspan-src

## 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
eigrp-tag	Process tag
bfd	Enable BFD on this interface
disable	(Optional) Disable BFD on this interface

Command Mode

- /exec/configure/if-igp

# 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
eigrp-ptag	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
name	Name of expanded extcommunity list
deny	Specify extcommunity to reject
permit	Specify extcommunity to accept
line	Regular-expression(must

### Command Mode

- /exec/configure

# ip extcommunity-list standard permit 4byteas-generic transitive

```
{ { ip extcommunity-list standard <name> { permit | deny } { { 4byteas-generic { transitive
<ext-comm-gen-trans> | non-transitive <ext-comm-gen-nontrans> } } | { rmac <mac-addr> } | { 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> } } | { rmac
<mac-addr> } | { 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
name	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
rmac	Router MAC
rt	Router-Target
soo	Site-Of-Origin
mac-addr	MAC address
ext-comm-gen-trans	Extcommunity number aa4:nn format
ext-comm-gen-nontrans	Extcommunity number aa4:nn format
ext-comm-rt-aa2nn4	Extcommunity number
ext-comm-rt-aa4nn2	Extcommunity number
ext-comm-soo-aa2nn4	Extcommunity number
ext-comm-soo-aa4nn2	Extcommunity number

## 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
monitorname	Name of Flow Monitor
input	Apply Flow Monitor on input traffic

Command Mode

- /exec/configure/if-routing /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
monitorname	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
monitorname	Name of Flow Monitor
input	Apply Flow Monitor on input traffic

Command Mode

- /exec/configure/if-vlan-common

# ip flow rtp

[no] ip flow rtp [ <ipv4-acl> ]

Syntax Description

ip	ipv4 configuration
flow	Enable/Disable NetFlow configuration
rtp	configure rtp flows for packet loss monitoring
ipv4-acl	(Optional) ipv4 ACL name

Command Mode

- /exec/configure

# 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
ifnum	Source interface
vrf	(Optional) Configure VRF
vrf-name	(Optional) VRF name
vrf-known-name	(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
eigrp-ptag	Process tag
hello-interval	Seconds between hello transmissions
eigrp-ptag	

### 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
eigrp-ptag	Process tag
holdtime	Seconds before neighbor is considered down
eigrp-ptag	

### Command Mode

- /exec/configure/if-igp

# ip host

[no] ip host <s0> [ <ipv4\_0> ] | ip host <s0> <ipv4\_0>

## Syntax Description

no	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	(Optional) 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> } [ udf <udf_name> <udf_val>
<udf_mask> ] } } | { [ <seqnum> ] <permitdeny> udf <udf_name1> <udf_val1> <udf_mask1> } | { no
<seqnum> } }
```

## Syntax Description

no	Negate a command or set its defaults
seqnum	(Optional) Sequence number
ip	ip
permitdeny	permitdeny
src_addr	Source network address
src_wild	Source wildcard bits
src_prefix	A.B.C.D/nn Source network prefix
src_any	Any source address
host	A.B.C.D - A single source host
src_hostaddr	A.B.C.D - A single source host
dst_addr	Destination network address
dst_wild	Destination wildcard bits
dst_prefix	A.B.C.D/nn Destination network prefix
dst_any	Any destination address
host	A.B.C.D - A single destination host
dst_hostaddr	A.B.C.D - A single destination host
udf	(Optional) User defined field match
udf_name	(Optional) UDF name
udf_val	(Optional) UDF value to match
udf_mask	(Optional) Mask to apply to UDF value
udf_name1	UDF name
udf_val1	UDF value to match
udf_mask1	Mask to apply to UDF value

## 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 HTTP client
ifnum	Source interface
vrf	(Optional) Configure VRF
vrf-name	(Optional) VRF name
vrf-known-name	(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
interface	Interface to pick source-address from
icmp_type	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

### Command Mode

- /exec/configure /exec/configure/vrf

# 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 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 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
time	(Optional) Time in seconds

### Command Mode

- /exec/configure/if-igp



# ip igmp heavy-template

[no] ip igmp heavy-template

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
heavy-template	IGMP heavy for IGMP scale

Command Mode

- /exec/configure

## 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 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
group	Multicast group IP address
source	(Optional) Configures source address for IGMPv3 (S,G) Channel
source	(Optional) Source IP address
route-map	Join group policy
route-map-name	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
count	(Optional) Count value

### Command Mode

- /exec/configure/if-igp

## 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
interval	(Optional) Interval in seconds

### Command Mode

- /exec/configure/if-igmp

# ip igmp querier-elect strict

[no] ip igmp querier-elect strict

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
querier-elect	Querier election
strict	Consider subnet check for L3 igmp querier election

Command Mode

- /exec/configure

# 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
time	(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
interval	(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
time	(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
route-map-name	Route-map name
prefix-list	Prefix list policy
prefix-list-name	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
value	(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 global configuration commands
snooping	Configures IGMP Snooping

## Command Mode

- /exec/configure

# 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 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
route-map-name	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 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 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 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
timeout	Timeout in minutes
never	Never expire ports from group membership

Command Mode

- /exec/configure

## 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
timeout	Timeout in minutes
never	Never expire ports from group membership

### 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
interval	(Optional) Interval in seconds

### 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 global configuration commands
snooping	Configures IGMP Snooping
link-local-groups-suppression	Configures Global link-local groups suppression

Command Mode

- /exec/configure

## 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 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
count	Max number of GQ misses allowed

### Command Mode

- /exec/configure

## 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
interface	Interface name

### Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

## 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 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
mrt	(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
mrt	(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
time	(Optional) Time in seconds

### 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
querier	(Optional) Querier IP address

### 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
interval	(Optional) Interval 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
time	(Optional) Time in seconds

### Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

## 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
interface	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 global configuration commands
snooping	Configures IGMP Snooping
report-suppression	Configures Global IGMPv1/IGMPv2 Report Suppression

### Command Mode

- /exec/configure

## 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 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
pname	Policy Name Name
interface	Specify interface for filtering
interface	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
value	(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
count	(Optional) Count value

### 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
interval	(Optional) Interval in seconds

### 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 [ 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
group	Group IP Address
source	(Optional) Configures static (S,G) channel
source	(Optional) Source IP Address
interface	Specify interface for static-group
vsi	(Optional) Specify if this interface is a VSI
interface	Interface name

### Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

## 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
percentage	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 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 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 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
version	(Optional) Version number value

### Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

## 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
vlans-range	(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
group	IP Multicast group range
source	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
count	(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
interval	(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
max-states	Maximum states allowed
reserved	(Optional) Reserve the states using route-map
route-map-name	(Optional) Route-map name
max-reserved	(Optional) Maximum (*,G)/(S,G) entires allowed on the interface

### 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
percentage	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
version	(Optional) Version number value

### Command Mode

- /exec/configure/if-igp



## ip lisp alt-vrf

```
{ { [ no ] ip lisp alt-vrf { <vrf-name> | <vrf-known-name> } } | { [ no ] ipv6 lisp alt-vrf { <vrf-name> | <vrf-known-name> } } }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
lisp	LISP global configuration commands
alt-vrf	Activate LISP-ALT functionality in VRF
vrf-name	VRF name
vrf-known-name	Known VRF name

### Command Mode

- /exec/configure /exec/configure/vrf

## ip lisp database-mapping dynamic priority weight

```
{ [ no ] ip lisp database-mapping <eid-prefix> { <locator> | <locator6> | { dynamic <interface> } } priority
<priority> weight <weight> } | { no ip lisp database-mapping <eid-prefix> { <locator> | <locator6> | { dynamic
<interface> } } } | { [ no ] ipv6 lisp database-mapping <eid-prefix6> { <locator> | <locator6> | { dynamic
<interface> } } } priority <priority> weight <weight> } | { no ipv6 lisp database-mapping <eid-prefix6> {
<locator> | <locator6> | { dynamic <interface> } } }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
lisp	LISP global configuration commands
database-mapping	Configures Locator addresses for an ETR
eid-prefix	IP EID-prefix to advertise locators for
locator	IP address of loopback or other ETR loopback interface
dynamic	Get locator dynamically
interface	Interface to learn dynamic locator
priority	Configures which Locators from a set are preferred
priority	Lower priority Locator takes preference
weight	Traffic load-spreading among Locators
weight	Specified in a percentage from 0 to 100

### Command Mode

- /exec/configure /exec/configure/vrf

# ip lisp etr

[no] { ip | ipv6 } lisp etr

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
lisp	LISP global configuration commands
etr	Configures LISP Egress Tunnel Router (ETR) parameters

## Command Mode

- /exec/configure /exec/configure/vrf

## ip lisp etr accept-map-request-mapping

```
{ { [ no ] ip lisp etr accept-map-request-mapping [ verify ] } | { [ no ] ipv6 lisp etr accept-map-request-mapping [ verify ] } }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
etr	Configures LISP Egress Tunnel Router (ETR) parameters
lisp	LISP global configuration commands
accept-map-request-mapping	Configures an ETR to cache mappings received from Map-Request messages
verify	(Optional) Send Map-Request back to Map-Request originator of a Mapping Data Record

### Command Mode

- /exec/configure /exec/configure/vrf

## ip lisp etr glean-mapping

```
{ { [ no ] ip lisp etr glean-mapping [ verify ] } | { [ no ] ipv6 lisp etr glean-mapping } }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
etr	Configures LISP Egress Tunnel Router (ETR) parameters
lisp	LISP global configuration commands
glean-mapping	Glean locator mapping from outer DA for inner DA EID
verify	(Optional) Send Map-Request to ITR to verify data gleaning

### Command Mode

- /exec/configure /exec/configure/vrf

## ip lisp etr map-cache-ttl

```
{ [ no ] ip lisp etr map-cache-ttl <minutes> } | { no ip lisp etr map-cache-ttl } | { [ no ] ipv6 lisp etr map-cache-ttl <minutes> } | { no ipv6 lisp etr map-cache-ttl }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
etr	Configures LISP Egress Tunnel Router (ETR) parameters
lisp	LISP global configuration commands
map-cache-ttl	Configures TTL for Map-Reply messages
minutes	Time-to-Live in units of minutes

### Command Mode

- /exec/configure /exec/configure/vrf

## ip lisp etr map-register-ttl

{ [ no ] ip lisp etr map-register-ttl <minutes> } | { no ip lisp etr map-register-ttl } | { [ no ] ipv6 lisp etr map-register-ttl <minutes> } | { no ipv6 lisp etr map-register-ttl }

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
etr	Configures LISP Egress Tunnel Router (ETR) parameters
lisp	LISP global configuration commands
map-register-ttl	Configures TTL for Map-Register messages
minutes	Time-to-Live in units of minutes

### Command Mode

- /exec/configure /exec/configure/vrf

## ip lisp etr map-server key

```
{ { [ no ] ip lisp etr map-server { <ms> | <ms6> } [ key-type { sha1 | sha2 } ] key <key> } | { [ no ] ipv6 lisp
etr map-server { <ms> | <ms6> } [ key-type { sha1 | sha2 } ] key <key> } | { [ no ] ip lisp etr map-server {
<ms> | <ms6> } proxy-reply } | { [ no ] ipv6 lisp etr map-server { <ms> | <ms6> } proxy-reply } }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
lisp	LISP global configuration commands
etr	Configures LISP Egress Tunnel Router (ETR) parameters
map-server	To interact with Map-Server
ms	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
key	SHA-1 password key
proxy-reply	Request Map-Server to send Map-Replies on behalf of site

### Command Mode

- /exec/configure /exec/configure/vrf



# ip lisp hardware-forwarding

[no] { ip | ipv6 } lisp hardware-forwarding

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
lisp	LISP global configuration commands
hardware-forwarding	Enable/disable Nexus 7K hardware forwarding

Command Mode

- /exec/configure /exec/configure/vrf

## ip lisp itr-etr

[no] { ip | ipv6 } lisp itr-etr

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
lisp	LISP global configuration commands
itr-etr	Configures both LISP ITR and ETR functionality

### Command Mode

- /exec/configure /exec/configure/vrf

# ip lisp itr

[no] { ip | ipv6 } lisp itr

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
lisp	LISP global configuration commands
itr	Configures LISP Ingress Tunnel Router (ITR) parameters

## Command Mode

- /exec/configure /exec/configure/vrf

## ip lisp itr map-resolver

```
{ [ no ] { ip | ipv6 } lisp itr map-resolver { <mr> | <mr6> } }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
lisp	LISP global configuration commands
itr	Configures LISP Ingress Tunnel Router (ITR) parameters
map-resolver	To interact with Map-Resolver
mr	Address of IPv4 map-server

### Command Mode

- /exec/configure /exec/configure/vrf

## ip lisp itr send-data-probe

```
{ { [ no ] ip lisp itr send-data-probe } | { [ no ] ipv6 lisp itr send-data-probe } }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
lisp	LISP global configuration commands
itr	Configures LISP Ingress Tunnel Router (ITR) parameters
send-data-probe	Send a Data-Probe instead of Map-Request on the LISP-ALT topology

### Command Mode

- /exec/configure /exec/configure/vrf

## ip lisp locator-vrf

```
{ { [ no ] ip lisp locator-vrf { <vrf-name> | <vrf-known-name> } } | { [ no ] ipv6 lisp locator-vrf { <vrf-name> | <vrf-known-name> } } }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
lisp	LISP global configuration commands
locator-vrf	Configure what VRF to use for locator command references
vrf-name	VRF name
vrf-known-name	Known VRF name

### Command Mode

- /exec/configure /exec/configure/vrf

## ip lisp map-cache-limit

[no] { ip | ipv6 } lisp map-cache-limit <limit> [ reserve-list <prefix-list> ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
lisp	LISP global configuration commands
map-cache-limit	Configures maximum size of map-cache
limit	Maximum number of map-cache entries
reserve-list	(Optional) EID-prefixes guaranteed to be stored in map-cache
prefix-list	(Optional) Reference to prefix-list name

### Command Mode

- /exec/configure /exec/configure/vrf

# ip lisp map-cache drop native-forward map-request priority weight

```
{ { [ no ] ip lisp map-cache <eid-prefix> { drop | native-forward | map-request | { { <locator> | <locator6> }
priority <priority> weight <weight> [ down ] } } } | { [ no ] ipv6 lisp map-cache <eid-prefix6> { drop |
native-forward | map-request | { { <locator6> | <locator> } priority <priority> weight <weight> [ down ] } }
} }
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
lisp	LISP global configuration commands
map-cache	Configures static EID-to-RLOC mappings for an ITR
eid-prefix	IP EID-prefix for RLOC static mapping
locator	IP address of loopback or other ETR loopback interface
priority	Configures which Locators from a set are preferred
priority	Lower priority Locator takes preference
weight	Traffic load-spreading among Locators
weight	Specified in a percentage from 0 to 100
down	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
drop	Drop packets that match this map-cache entry
native-forward	Natively forward packets that match his map-cache entry
map-request	Send Map-Request for LISP destination EID

## Command Mode

- /exec/configure /exec/configure/vrf



## ip lisp map-request-source

{ [ no ] ip lisp map-request-source <source> } | { no ip lisp map-request-source } | { [ no ] ipv6 lisp map-request-source <source6> } | { no ipv6 lisp map-request-source }

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
lisp	LISP global configuration commands
map-request-source	Configures source address for Map-Request message
source	Source address for IPv4 Map-Request message

### Command Mode

- /exec/configure /exec/configure/vrf

## ip lisp map-resolver

{ [ no ] { ip | ipv6 } lisp map-resolver }

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
lisp	LISP global configuration commands
map-resolver	Configures LISP Map Resolver functionality

### Command Mode

- /exec/configure /exec/configure/vrf

## ip lisp map-server

{ [ no ] { ip | ipv6 } lisp map-server }

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
lisp	LISP global configuration commands
map-server	Configures LISP Map Server functionality

### Command Mode

- /exec/configure /exec/configure/vrf

## ip lisp multicast

[no] ip lisp multicast

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
lisp	LISP global configuration commands
multicast	Configures LISP to carry multicast traffic, when ITR or ETR function is enabled

Command Mode

- /exec/configure /exec/configure/vrf

# ip lisp nat-traversal

[no] { ip | ipv6 } lisp nat-traversal

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
lisp	LISP interface configuration commands
nat-traversal	Send Echo messages to Map-Server to get global locator

Command Mode

- /exec/configure/if-igp

## ip lisp ntr

[no] ip lisp ntr <locator>

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
lisp	LISP global configuration commands
ntr	Configures LISP NAT Tunnel Router (NTR)
locator	Local IP address in locator namespace

### Command Mode

- /exec/configure /exec/configure/vrf

## ip lisp proxy-etr

```
{ { [ no ] ip lisp proxy-etr } | { [ no ] ipv6 lisp proxy-etr } }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
lisp	LISP global configuration commands
proxy-etr	Configures a Proxy ETR (PETR)
lisp	

### Command Mode

- /exec/configure /exec/configure/vrf

## ip lisp proxy-itr

```
{ { [ no ] ip lisp proxy-itr { <local-rloc> | <local-rloc6> } + } | { [ no ] ipv6 lisp proxy-itr { <local-rloc> | <local-rloc6> } + } }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
lisp	LISP global configuration commands
proxy-itr	Configures a Proxy ITR (PTR)
local-rloc	Local IP address in locator namespace
lisp	

### Command Mode

- /exec/configure /exec/configure/vrf



## ip lisp shortest-eid-prefix-length

```
{ { [ no ] ip lisp shortest-eid-prefix-length <pl> } | { [ no ] ipv6 lisp shortest-eid-prefix-length <pl6> } }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
lisp	LISP global configuration commands
shortest-eid-prefix-length	Do not accept EID-prefixes shorter than configured value
pl	IPv4 EID-prefix length
pl6	IPv6 EID-prefix length

### Command Mode

- /exec/configure /exec/configure/vrf

## ip lisp source-locator

```
{ [ no ] { ip | ipv6 } lisp source-locator <interface> [ secondary ] }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
lisp	LISP interface configuration commands
source-locator	Select source locator when destination locator uses this interface
interface	Use primary address from interface as source locator
secondary	(Optional) Use secondary address on interface as source locator

### Command Mode

- /exec/configure/if-igp

## ip lisp translate inside outside

```
{ { [ no ] ip lisp translate inside <nrEID> outside <rEID> } | { [ no ] ipv6 lisp translate inside <nrEID6>
outside <rEID6> } }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
lisp	LISP global configuration commands
translate	Translate source address on ITR or destination address on ETR
inside	Site-based non-routable EID
nrEID	IPv4 inside address
outside	External-based routable EID
rEID	IPv4 outside address

### Command Mode

- /exec/configure /exec/configure/vrf

## ip lisp use-bgp-locators

[no] { ip | ipv6 } lisp use-bgp-locators [ route-map <rmap-name> ]

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
lisp	LISP global configuration commands
use-bgp-locators	Use next-hops from BGP as locators for map-cache entries
route-map	(Optional) Route-map applied to on-demand routes.
rmap-name	(Optional) Route-map name

Command Mode

- /exec/configure /exec/configure/vrf

## ip lisp use-petr priority weight

[no] { ip | ipv6 } lisp use-petr { <petr> | <petr6> } priority <priority> weight <weight>

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
lisp	LISP global configuration commands
use-petr	Encapsulate to Proxy ETR for matching forward-native entry
petr	IPv4 locator address of PETR
priority	Configures which Locators from a set are preferred
priority	Lower priority Locator takes preference
weight	Traffic load-spreading among Locators
weight	Specified in a percentage from 0 to 100

### Command Mode

- /exec/configure /exec/configure/vrf

## ip load-sharing address

```
[no] ip load-sharing address { source-destination [ port source-destination2 [ symmetric | inner { all | greheader
[ symmetric ] } ] | gre | gre-outer | gtpu ] | 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
symmetric	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
inner	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
all	(Optional) Use inner header for hashing for all the traffic
greheader	(Optional) Use GRE header fields for hashing
gre-outer	(Optional) Use outer IPv4 header fields for GRE tunnel hashing
gtpu	(Optional) Use GTPU TEID value for port source-destination
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
rotate	(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
random-seed	(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
route-map-name	Route-map name
route-map-name	(Optional) Route-map name
route-map-name	(Optional) Known route-map name

## Command Mode

- /exec/configure /exec/configure/vrf

# ip mfw mstatic register

[no] ip mfw mstatic register

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
mfw	Configures Global IP Multicast Forwarding
mstatic	Static Multicast Route
register	Register

Command Mode

- /exec/configure

# 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

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
mroute	Configure multicast RPF static route
ip-addr	IP prefix in format i.i.i.i
ip-mask	IP network mask in format m.m.m.m
ip-prefix	IP prefix and network mask length in format x.x.x.x/m
next-hop	IP next-hop address in format i.i.i.i
nh-prefix	IP next-hop prefix in format i.i.i.i/m
interface	Interface for interface static multicast routes
pref	(Optional) Route preference
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(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
peer-address	IP address of MSDP peer
text	Text description

Command Mode

- /exec/configure /exec/configure/vrf

## 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
limit	Limit on number of groups
source	Sources to limit groups to
sprefix	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
peer-address	IP address of MSDP peer
interval	Keepalive interval in seconds
timeout	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
name	Name of mesh-group
peer-address	IP address of MSDP peer in mesh-group

### 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
interface	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
peer-address	IP address of MSDP peer
password	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
peer-address	IP address of MSDP peer
connect-source	Configure local IP address for TCP connection
interface	Use IP address of interface for peer address
remote-as	(Optional) Configure remote Autonomous System Number
asn	(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
interval	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
route-map-name	(Optional) Route-map name
prefix-list	(Optional) Prefix list policy
prefix-list-name	(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
interval	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
limit	Number of (S,G) entries
peer-address	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
peer-address	IP address of MSDP peer for SA policy
route-map-name	Route-map name
prefix-list-name	Name of prefix-list
rtr_pol_name	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
peer-address	IP address of MSDP peer for SA policy
route-map-name	Route-map name
prefix-list-name	Name of prefix-list
rtr_pol_name	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
peer-address	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
eigrp-ptag	Process tag
mtu	Interface MTU
eigrp-ptag	

### Command Mode

- /exec/configure/if-igp

# ip multicast multipath resilient

[no] ip multicast multipath resilient

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
multicast	Configure IP multicast global parameters
multipath	Configure ECMP multicast load splitting
resilient	Configure resilient RPF interface

Command Mode

- /exec/configure /exec/configure/vrf

## 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 multicast rpf select vrf group-list

```
{ { ip multicast rpf select { vrf { <vrf-name> | <vrf-known-name> } group-list <prefix> } } | { no ip multicast rpf select { vrf { <vrf-name> | <vrf-known-name> } group-list <prefix> } } }
```

### Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
multicast	Configure IP multicast global parameters
rpf	Configure RPF check
select	Configure VRF for RPF check
vrf	VRF for RPF lookup
vrf-name	VRF name
vrf-known-name	Known VRF name
group-list	Group range for RPF select
prefix	Group range prefix

### Command Mode

- /exec/configure /exec/configure/vrf

## 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
ipv4_0	Enter an IPv4 address
ipv4_2	(Optional) Enter an IPv4 address
ipv4_4	(Optional) Enter an IPv4 address
ipv4_6	(Optional) Enter an IPv4 address
ipv4_8	(Optional) Enter an IPv4 address
ipv4_10	(Optional) Enter an IPv4 address
ipv4_12	Enter an IPv4 address
use-vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
ipv4_14	Enter an IPv4 address
ipv4_16	(Optional) Enter an IPv4 address
ipv4_18	Enter an IPv4 address
ipv4_20	(Optional) Enter an IPv4 address
ipv4_22	(Optional) Enter an IPv4 address
ipv4_24	Enter an IPv4 address



ipv4_26	(Optional) Enter an IPv4 address
ipv4_28	(Optional) Enter an IPv4 address
ipv4_30	(Optional) Enter an IPv4 address
ipv4_32	Enter an IPv4 address
ipv4_34	(Optional) Enter an IPv4 address
ipv4_36	(Optional) Enter an IPv4 address
ipv4_38	(Optional) Enter an IPv4 address
ipv4_40	(Optional) Enter an IPv4 address
ipv4_42	Enter an IPv4 address
ipv4_44	(Optional) Enter an IPv4 address
ipv4_46	(Optional) Enter an IPv4 address
ipv4_48	(Optional) Enter an IPv4 address
ipv4_50	(Optional) Enter an IPv4 address
ipv4_52	(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
insideLocalIP	Inside local IP address
insideLocalPort	Local UDP/TCP port
insideGlobalIP	Inside global IP address
insideGlobalPort	Global UDP/TCP port
group	(Optional) Specify group for the twice NAT
group-id	(Optional) Group ID for the twice NAT
acl-name	Access-list-name

pool-name	Pool name for global addresses
add-route	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
vrf-name	(Optional) vrf name
globalAddrInterface	interface type and number in module/slot format
overload	(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
outsideGlobalIP	Outside global IP address
outsideGlobalPort	Outside Global UDP/TCP port
outsideLocalIP	Outside local IP address
outsideLocalPort	Outside Local UDP/TCP port
group	(Optional) Specify group for the twice NAT
dynamic	(Optional) Dynamic twice NAT group
group-id	(Optional) Group ID for the twice NAT
acl-name	Access-list-name
vrf-name	(Optional) vrf name
pool-name	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> <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> } ]
```

### 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
pool-name	Pool name
start-ip	Start IP address
end-ip	End IP address
netmask	Network mask
prefix-length	Prefix length

### 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
pool-name	Pool name
netmask	Network mask
prefix-length	Prefix length

### Command Mode

- /exec/configure



## ip nat translation creation-delay

{ ip nat translation creation-delay <batch-timeout> } | { no ip nat translation creation-delay }

### Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
nat	NAT configuration commands
translation	NAT translation entry configuration
creation-delay	Translation entries creation delay due to batching before program to team
batch-timeout	0/250/500/750/1000

### 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
max	Number of entries

### 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
eigrp-ptag	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
eigrp-ptag	Process tag
route-map	Use a route-map for offset-list selection
map	Route-map name
prefix-list	Use a prefix-list for offset-list selection
list	Reference to prefix-list name
in	Perform offset on incoming updates
out	Perform offset on outgoing updates
offset	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
key	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-igmp /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
keychain	Key-chain name

### Command Mode

- /exec/configure/if-igmp /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
cost	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
interval	(seconds)

## 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
interval	(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)
keyid	Key ID
md5	Use MD5 algorithm
key	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 prefix-attributes n-flag-clear

[no] ip ospf prefix-attributes n-flag-clear

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ospf	OSPF configuration commands
prefix-attributes	Prefix attributes
n-flag-clear	Clear N-Flag for the interface prefixes

Command Mode

- /exec/configure/if-loopback

# 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
prio	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
interval	(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
delay	(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
eigrp-ptag	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)
anycast-rp	Address for the Anycast-RP address
rp-addr	Address of RP in the Anycast-RP set

### Command Mode

- /exec/configure /exec/configure/vrf



## 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
rate	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
route-map-name	Route-map name
rtr_pol_name	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
interface	Use IP address of interface for Auto-RP Announce messages
scope	(Optional) Configure the scope of Auto-RP Discovery messages
ttl	(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
route-map-name	Route-map name
rtr_pol_name	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
interface	Use IP address of interface for Auto-RP Announce messages
ipaddr	IP address of RP for group
group-list	Group range list
prefix	Prefix of group range
route-map	Group range policy for Auto-RP Candidate RP
route-map-name	Route-map name
prefix-list	Prefix List policy for Auto-RP Candidate RP
prefix-list-name	Name of prefix-list
scope	(Optional) Configure the scope of Auto-RP Announce messages
ttl	(Optional) TTL value for scope
interval	(Optional) Auto-RP Announce message transmission interval
interval	(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
limit	Set limit for Bidir RPs permitted in IPv4 PIM

### Command Mode

- /exec/configure /exec/configure/vrf

# 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
interface	Use IP address of interface for Bootstrap messages
hash-len	(Optional) Hash mask length used in Bootstrap messages
hash-len	(Optional) Hash mask length value
priority	(Optional) BSR priority used in Bootstrap messages
priority	(Optional) BSR priority value
interval	(Optional) Bootstrap message transmission interval
interval	(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
route-map-name	Route-map name
rtr_pol_name	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
route-map-name	Route-map name
rtr_pol_name	An existing routing-rules policy

### 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
delay	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
priority	Priority value

### Command Mode

- /exec/configure/if-igp

## ip pim evpn-border-leaf

[no] ip pim evpn-border-leaf

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
evpn-border-leaf	Configure this node as a border leaf

Command Mode

- /exec/configure

# ip pim extranet

[no] ip pim extranet

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
extranet	Support for Extranet RPF lookup

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
route-map-name	Route-map name
prefix-list	Prefix List policy
prefix-list-name	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
auth-key	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
interval	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-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
route-map-name	Route-map name
prefix-list	Prefix List policy for static RP
prefix-list-name	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 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
route-map-name	Route-map name
prefix-list	Prefix List policy for neighbor
prefix-list-name	Name of prefix-list

### Command Mode

- /exec/configure/if-igp

# 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
route-map-name	(Optional) Route-map name
prefix-list	(Optional) Prefix List policy for pre-build-spt
prefix-list-name	(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
route-map-name	Route-map name
prefix-list	Prefix List policy for Registers
prefix-list-name	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
rate	Packets per second

### Command Mode

- /exec/configure /exec/configure/vrf

## 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
src-interface	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 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
rp-address	IP address of router which is RP for group range
group-list	(Optional) Group range for static RP
prefix	(Optional) Group range prefix
route-map	(Optional) Route Map policy for static RP
route-map-name	(Optional) Route-map name
prefix-list	(Optional) Prefix List policy for static RP
prefix-list-name	(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
interface	Use IP address of interface for Candidate-RP messages
group-list	Group range list
prefix	Prefix of group range
route-map	Group range policy for Candidate RP
route-map-name	Route-map name
prefix-list	Prefix List policy for Candidate RP
prefix-list-name	Name of prefix-list
priority	(Optional) RP priority used in Candidate-RP messages
priority	(Optional) RP priority value
interval	(Optional) Bootstrap message transmission interval
interval	(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
expiry-time	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
route-map-name	(Optional) Route-map name
prefix-list	(Optional) Specifies prefix-list for (S,G)s to apply the expiry timer
prefix-list-name	(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
group	List of group range prefixes
route-map	Group range route-map policy for SSM range
route-map-name	Route-map name
prefix-list	Group range prefix-list policy for SSM range
prefix-list-name	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
max-states	Maximum (*,G)/(S,G) entries allowed in this VRF
reserved	(Optional) Configures Reserved limit
route-map-name	(Optional) Route-map name
max-reserved	(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 interface configuration commands
strict-rfc-compliant	Dont process joins from unknown neighbors on this interface

### Command Mode

- /exec/configure/if-igp



# 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 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
ifnum	Source interface
vrf	(Optional) Configure VRF
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name

### 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
route-map-name	Route-map name
route-map-name	(Optional) Route-map name
route-map-name	(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
name	List name
inout	Traffic direction

### Command Mode

- /exec/configure/if-set-acl-l2

## 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
name	List name
inout	Traffic direction

### Command Mode

- /exec/configure/system/acl

## 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
ipv4-pfl-name	Name of prefix-list
ipv4-pfl-name	Known prefix-list name
description	Description of the IP prefix list
line	IP prefix-list description string

### Command Mode

- /exec/configure

## ip prefix-list 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
ipv4-pfl-name	Name of prefix-list
ipv4-pfl-name	Name of prefix-list
ipv4-pfl-name	Known prefix-list name
seq	(Optional) Sequence number of an entry
seq	(Optional) Sequence number
permit	Specify routes to forward
deny	Specify routes to reject
prefix	IP prefix network/length, e.g., 35.0.0.0/8
eq	(Optional) Exact prefix length to be matched
equal	(Optional) Exact prefix length
ge	(Optional) Minimum prefix length to be matched
greater	(Optional) Minimum prefix length
le	(Optional) Maximum prefix length to be matched
lesser	(Optional) Maximum prefix length
mask	(Optional) Explicit match mask
mask	(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
interface	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 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
keychain	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
metric	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
map	Route-map name
list	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
ip-prefix	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
ip-addr	IP prefix in format i.i.i.i
ip-mask	IP network mask in format m.m.m.m
ip-prefix	IP prefix and network mask length in format x.x.x.x/m
pin-interface	Pin interface
next-hop	IP next-hop address in format i.i.i.i
nh-prefix	IP next-hop prefix in format i.i.i.i/m
interface	Interface for interface static routes
vlan-interface	vlan interface
track	(Optional) Specify the Object to be Tracked
object-num	(Optional) Track Object Number
name	(Optional) Specify name of the next hop
rt-name	(Optional) Name of next hop
pref	(Optional) Route preference
tag	(Optional) Supply tag value with static route
tag-value	(Optional) 32-bit value for tag
vrf	(Optional) VRF for next-hop if different from this vrf
vrf-name	(Optional) VRF name
vrf-known-name	(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
pin-interface	Interface on which bfd has to be enabled
next-hop	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
eigrp-ptag	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)
tag	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
tag	Process tag
area	Area associated with interface
area-id-ip	OSPF area ID in IP address format
area-id-int	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
tag	(Optional) Process tag
multi-area	Multi area associated with interface
area-id-ip	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)
tag	Process tag

## Command Mode

- /exec/configure/if-igp

## ip routing multicast holddown

[no] { ip | ipv4 } routing multicast holddown [ <route-holddown-sec> | [ disable-init-phase ] ]

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv4	Configure IP features
routing	Routing information
multicast	Configure multicast
holddown	Initial holddown period
route-holddown-sec	(Optional) Delay in seconds [70..3600], 0 to disable holddown
disable-init-phase	(Optional) Disable initial notification suppression phase

Command Mode

- /exec/configure

## ip routing multicast mfdm-buffer-route-count

{ ip | ipv4 } routing multicast mfdm-buffer-route-count { <size> } | no { ip | ipv4 } routing multicast mfdm-buffer-route-count [ <size> ]

### Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
ipv4	Configure IP features
routing	Routing information
multicast	Configure multicast
mfdm-buffer-route-count	mfdm buffer route size
size	size in numbers

### Command Mode

- /exec/configure

## ip routing multicast software-replicate

[no] ip routing multicast software-replicate [ iif ]

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
routing	Routing information
multicast	Configure multicast
software-replicate	Enable software replication of PIM ASM leak packets
iif	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

Command Mode

- /exec/configure

# ip routing multicast trace enable

[no] ip routing multicast trace enable

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
routing	Configure routing information
multicast	Configure multicast
trace	Bintrace related commands
enable	Enable bintrace

Command Mode

- /exec/configure

## ip routing multicast trace entries

ip routing multicast trace entries <num-entries>

Syntax Description

ip	Configure IP features
routing	Configure routing information
multicast	Configure multicast
trace	Bintrace related commands
entries	Number of bintrace entries
num-entries	Update number of bintrace entries

Command Mode

- /exec/configure

## ip routing multicast trace records

ip routing multicast trace records <num-rec>

Syntax Description

ip	Configure IP features
routing	Configure routing information
multicast	Configure multicast
trace	Bintrace related commands
records	Number of bintrace records per entry
num-rec	Update number of bintrace record per entry

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
ipaddress	Virtual IP address
ipprefix	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

ip sla <index>

Syntax Description

ip	
sla	Service Level Agreement (SLA)
index	Entry Number

Command Mode

- /exec/configure

# ip sla

[no] ip sla <index>

Syntax Description

no	
ip	
sla	Service Level Agreement (SLA)
index	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	
add	delete
start-time	(Optional) January
October	(Optional) November
operation-ids	<schedule-period-seconds>
random-frequency-range	(Optional) <ageout-seconds>
ip	
sla	Service Level Agreement (SLA)
group	Group Configuration or Group Scheduling
schedule	Group scheduling
group-id	Group schedule entry number
delete	Delete probes from existing group
reschedule	Reschedule the group using previous config
operation-ids	Multiple probe ID's to be group scheduled
schedule-period	Group schedule period range
schedule-period-seconds	seconds
frequency	(Optional) Group operation frequency
range	(Optional) Group operation frequency-range for random scheduling
frequency-seconds	(Optional) Specify frequency in seconds
ageout	(Optional) How long to keep this Entry when inactive
ageout-seconds	(Optional) Ageout Seconds
life	(Optional) Length of time to execute in seconds

life-seconds	(Optional) Life seconds (default 3600)
forever	(Optional) continue running forever
after	(Optional) Start after a certain amount of time from now
hhmm	(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
day	(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	
action-type	(Optional) threshold-value
falling-value	(Optional) <neverImmed>
consecutive-occurrences	(Optional) <x-value>
ip	
sla	Service Level Agreement (SLA)
reaction-configuration	IP SLAs Reaction-Configuration
react-cfg-entry-num	Entry Number
react	Reaction variable to be configured
monitored-element	monitored element
action	(Optional)
threshold-value	(Optional) Threshold Value
rising-value	(Optional) Upper limit for Threshold
threshold-type	(Optional) Threshold Type
neverImmed	(Optional)
consecutive	(Optional)
xOfy	(Optional)
average	(Optional)
x-value	(Optional) X value
y-value	(Optional) Y value
n-attempts	(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
entry-num	Entry Number
target-entry	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

tcp-connect	(Optional) ipaddress
no	(Optional)
ip	
sla	
responder	Enable IP SLAs Responder
ipaddress	(Optional) Permanent address
port	(Optional) Permanent port
tcp-port	(Optional) Port Number
udp-echo	(Optional) Setup udp-echo responder
udp-ip	(Optional) IP Address or IP HostName
udp-port	(Optional) Port Number

### Command Mode

- /exec/configure

## ip sla responder twamp

[no] ip sla responder twamp

Syntax Description

no	(Optional)
ip	
sla	
responder	Enable IP SLAs Responder
twamp	Setup TWAMP responder

Command Mode

- /exec/configure

## ip sla restart

ip sla restart <index>

Syntax Description

ip	
sla	Service Level Agreement (SLA)
restart	Restart An Active Entry
index	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	
life	(Optional) forever
August	(Optional) September
recurring	(Optional) <life-seconds>
ip	
sla	Service Level Agreement (SLA)
schedule	Entry Scheduling
index	Entry Number
life-seconds	(Optional) Life seconds (default 3600)
forever	(Optional) continue running forever
start-time	(Optional) When to start this entry
hhmm	(Optional) Start time (hh:mm:ss)
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
day	(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
ageout-seconds	(Optional) Ageout Seconds

## Command Mode

- /exec/configure

## ip sla server twamp

[no] ip sla server twamp

Syntax Description

no	(Optional)
ip	
sla	
server	IPSLA IPPM server configuration
twamp	IPSLA IPPM TWAMP server configuration

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
ipaddr1	IP address
macaddr	MAC address
vlan	VLAN
vlanid	VLAN id
interface	interface
interface1	interface

### Command Mode

- /exec/configure



## 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
eigrp-ptag	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
ifnum	Source interface
vrf	(Optional) Configure VRF
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name

### Command Mode

- /exec/configure

## 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
eigrp-ptag	Process tag
address	IP address
mask	IP network mask
prefix	IP prefix in slash format
distance	(Optional) Administrative distance
leak-map	(Optional) Allow dynamic prefixes based on the leak-map
leak-map	(Optional) leak-map name
eigrp-ptag	

### 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
interface	Interface Description

Command Mode

- /exec/configure

# ip tcp mss

```
{ { no ip tcp mss } | { ip tcp mss <bytes> } }
```

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
tcp	Global TCP parameters
mss	Maximum segment size for TCP connections in bytes
bytes	Maximum segment size

## Command Mode

- /exec/configure /exec/configure/config-mgmt

## 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
time	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
ifnum	Source interface
vrf	(Optional) Configure VRF
vrf-name	(Optional) VRF name
vrf-known-name	(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
ifnum	Source interface
vrf	(Optional) Configure VRF
vrf-name	(Optional) VRF name
vrf-known-name	(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
ifnum	Source interface
vrf	(Optional) Configure VRF
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name

### Command Mode

- /exec/configure

# ip ttl

[no] ip ttl <ttl\_value>

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Set ERSPAN IP options
ttl	Set the IP time-to-live value
ttl_value	

## Command Mode

- /exec/configure/config-monitor-erspan-src

## 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
obj-grp-name	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
interface	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> } ] ] | ip verify unicast source reachable-via { rx | any [ allow-default ] } [ policy { <policy-name> | <acl_pol_name> } ]
```

### Syntax Description

no	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	(Optional) Source is reachable via interface on which packet was received
any	(Optional) Source is reachable via any interface
allow-default	(Optional) Loose Default Route Unicast Reverse Path Forwarding
policy	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
policy-name	(Optional) An uRPF fail policy name
acl_pol_name	(Optional) An existing access-rules policy

### Command Mode

- /exec/configure/if-igp

# ipv4

[no] ipv4 <aclname>

Syntax Description

ipv4	Specify the ipv4 acl name
aclname	ACL name to be applied

Command Mode

- /exec/configure/nfm-filter

# ipv6

[no] ipv6 <aclname>

Syntax Description

ipv6	Specify the ipv6 acl name
aclname	ACL name to be applied

Command Mode

- /exec/configure/nfm-filter

## 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
name	List name
inout	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
name	List name
client	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
clienttype	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
clientID	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

### 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 ] [ aggregate-prefix-length <prefix-length> ] } }
```

### 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
pref	(Optional) Local/direct route preference
tag	(Optional) U6RIB route tag value for local/direct routes
tag	(Optional) Local/direct tag value
aggregate-prefix-length	(Optional) Prefix-Length for AM Route Aggregation
prefix-length	(Optional) Aggregation Prefix-Length Value

### Command Mode

- /exec/configure/if-igp /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 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-vsant

## 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
stale-time	Seconds after adjacency uptime

### 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
pref	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 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 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 guard

[no] ipv6 dhcp guard [ attach-policy <policy\_name> ]

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
policy_name	(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
policy_name	(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
policy_name	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
vrf-name	(Optional) VRF name
interface	(Optional) Destination interface for the relay address
interface-name	(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

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
vrf-name	(Optional) VRF name
interface	(Optional) Destination interface for the relay address
interface-name	(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

[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 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
interface-name	Source interface

Command Mode

- /exec/configure /exec/configure/if-igp



# 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
monitorname	Name of Flow Monitor
input	Apply Flow Monitor on input traffic

## Command Mode

- /exec/configure/if-vlan-common

## 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
monitorname	Name of Flow Monitor
input	Apply Flow Monitor on input traffic

Command Mode

- /exec/configure/if-routing /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
monitorname	Name of Flow Monitor
input	Apply Flow Monitor on input traffic

## Command Mode

- /exec/configure/vlan-config

## ipv6 flow rtp

[no] ipv6 flow rtp [ <ipv6-acl> ]

Syntax Description

ipv6	ipv6 configuration
flow	Enable/Disable NetFlow configuration
rtp	configure rtp flows for packet loss monitoring
ipv6-acl	(Optional) ipv6 ACL name

Command Mode

- /exec/configure

# 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> ] | ipv6 host <s0> <ipv6\_0>

## Syntax Description

no	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 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
route-map-name	Route-map name
route-map-name	(Optional) Route-map name
route-map-name	(Optional) Known route-map name

### Command Mode

- /exec/configure /exec/configure/vrf



## 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
time	(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
route-map-name	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
count	(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
interval	(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
time	(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
interval	(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
time	(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
route-map-name	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
value	(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
count	(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
interval	(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
max-states	Maximum states allowed
reserved	(Optional) Reserve the states using route-map
route-map-name	(Optional) Route-map name
max-reserved	(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
route-map-name	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
version	(Optional) Version number value

### Command Mode

- /exec/configure/if-igp

# 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
max	Max no of ND adjacencies configured
syslog	(Optional) Syslog messages
rate	(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
attempt	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
dadns_interval	Interval in milliseconds

### Command Mode

- /exec/configure/if-igp

## ipv6 nd delete-adj-on-mac-delete

ipv6 nd delete-adj-on-mac-delete | no ipv6 nd delete-adj-on-mac-delete

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
delete-adj-on-mac-delete	Delete the adjacency on MAC delete

Command Mode

- /exec/configure/if-vlan-common

## 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
hop-limit	Hop limit in IPv6 header

### Command Mode

- /exec/configure/if-igp

## ipv6 nd local-proxy no-hw-flooding

```
{ { ipv6 nd local-proxy <prefix> no-hw-flooding } | { no ipv6 nd local-proxy <prefix> no-hw-flooding } }
```

### Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
local-proxy	enable nd local proxy
no-hw-flooding	disable hardware flooding

### Command Mode

- /exec/configure/if-vlan-common

## ipv6 nd local-proxy no-hw-flooding

{ { ipv6 nd local-proxy <prefix> no-hw-flooding } | { no ipv6 nd local-proxy <prefix> no-hw-flooding } }

### Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
local-proxy	enable nd local proxy
no-hw-flooding	disable hardware flooding

### Command Mode

- /exec/configure/if-vlan-common



## 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
mtu	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
interval	Interval in milliseconds
retry-count	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

### 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
time	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
val-life	(Optional) Valid Lifetime (secs)
infinite	(Optional) Infinite Valid Lifetime
no-advertise	(Optional) Do not advertise prefix
perf-life	(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	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
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
val-life	(Optional) Valid Lifetime (secs)
infinite	(Optional) Infinite Valid Lifetime
no-advertise	(Optional) Do not advertise prefix
perf-life	(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	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
off-link	(Optional) Prefix is offlink

### Command Mode

- /exec/configure/if-igp



## 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
interval	Interval in seconds
min	(Optional) Minimum interval between sending RA messages
min-interval	(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
lifetime	Lifetime in seconds

### Command Mode

- /exec/configure/if-igp

## ipv6 nd ra bootfile-url

```
{ { ipv6 nd ra bootfile-url <url> } | { no ipv6 nd ra bootfile-url } }
```

### Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
ra	Router Advertisement
bootfile-url	Set boot-file-url option
url	url for boot file

### 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
dnssl	Configure DNS Search List to advertise in RA
dnssl_life	(Optional) Configure IPv6 DNS Search list life time
infinite	(Optional) Configure IPv6 DNS Search list life time with infinite
sequence	Sequence of Search List
seqno	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
rdnss_life	(Optional) Configure IPv6 DNS Server life time
infinite	(Optional) Configure IPv6 DNS Server life time with infinite
sequence	Sequence of Server
seqno	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 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

[no] ipv6 nd raguard [ attach-policy <policy\_name> ]

Syntax Description

no	(Optional) Negate a command or set its defaults
policy_name	(Optional) policy name for ipv6 raguard

Command Mode

- /exec/configure/vlan-config

## 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
policy_name	policy name for feature RA guard

Command Mode

- /exec/configure/if-switching

## ipv6 nd raguard policy

[no] ipv6 nd raguard policy <policy\_name>

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
policy_name	Name of the raguard 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
time	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
time	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
lifetime	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
interval	(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
interval1	(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

[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
mac-addr	(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 { { 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
reach-secs	Seconds
stale-secs	Seconds
down-secs	Seconds

### 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

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
vlanid	Number of entries
intf	Interface
mac-address	(Optional) 48-bit hardware address / <cr> for any mac address
interval	(Optional) seconds
reach-secs	(Optional) 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
box-lim	Number of entries
vlan-lim	(Optional) Number of entries
port-lim	(Optional) Number of entries
mac-lim	(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
interval	(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 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
limit	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
interface	Use IPV6 address of interface for Bootstrap messages
hash-len	(Optional) Hash mask length used in Bootstrap messages
hash-len	(Optional) Hash mask length value
priority	(Optional) BSR priority used in Bootstrap messages
priority	(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
route-map-name	A route-map name
rtr_pol_name	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
route-map-name	A route-map name
rtr_pol_name	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
priority	Priority value

### Command Mode

- /exec/configure/if-igp

## 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 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-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
route-map-name	A route-map name
rtr_pol_name	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
route-map-name	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/rcv

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
route-map-name	A route-map name
rtr_pol_name	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
rate	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
route-map-name	(Optional) route-map name
prefix-list	(Optional) Prefix List policy for static RP
prefix-list-name	(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
interface	IPv6 address of interface for Candidate-RP messages
group-list	Group range list
route-map	Group range policy for Candidate RP
route-map-name	route-map name
priority	(Optional) RP priority used in Candidate-RP messages
priority	(Optional) RP priority value
interval	(Optional) Bootstrap message transmission interval
interval	(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 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
max-states	Maximum (*,G)/(S,G) entries allowed in this VRF
reserved	(Optional) Configures Reserved limit
route-map-name	(Optional) Route-map name
max-reserved	(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
route-map-name	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
route-map-name	Route-map name
route-map-name	(Optional) Route-map name
route-map-name	(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
name	List name
inout	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
ipv6-pfl-name	Name of prefix-list
ipv6-pfl-name	Known prefix-list name
description	Description of the IPv6 prefix list
line	IPv6 prefix-list description string

Command Mode

- /exec/configure

## ipv6 prefix-list 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
ipv6-pfl-name	Name of prefix-list
ipv6-pfl-name	Name of prefix-list
ipv6-pfl-name	Known prefix-list name
seq	(Optional) Sequence number of an entry
seq	(Optional) Sequence number
permit	Specify routes to forward
deny	Specify routes to reject
eq	(Optional) Exact prefix length to be matched
equal	(Optional) Exact prefix length
ge	(Optional) Minimum prefix length to be matched
greater	(Optional) Minimum prefix length
le	(Optional) Maximum prefix length to be matched
lesser	(Optional) Maximum prefix length

### 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 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
interface	Interface for interface static routes
vlan-interface	vlan interface
name	(Optional) Specify name of the next hop
rt-name	(Optional) Name of next hop
pin-interface	Pin interface
interface-link-local	Interface for interface static routes
track	(Optional) Specify the Object to be Tracked
object-num	(Optional) Track Object Number
vrf	(Optional) VRF for next-hop if different from this vrf
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
pref	(Optional) Route preference
tag	(Optional) Supply tag value with static route
tag-value	(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
pin-interface	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)
tag	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
tag	Process tag
area	Area associated with interface
area-id-ip	OSPFv3 area ID in IP address format
area-id-int	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
tag	(Optional) Process tag
multi-area	Multi-Area associated with interface
area-id-ip	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 multicast holddown

ipv6 routing multicast holddown { <route-holddown-sec> | <none> } | no ipv6 routing multicast holddown [ <route-holddown-sec> | <none> ]

### Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
routing	Routing information
multicast	Configure multicast
holddown	Initial holddown period
route-holddown-sec	Delay in seconds
none	Disable holddown

### 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
policy_name	(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
policy_name	(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
name	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
vlanid	Number of entries

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
name	List name
inout	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 ] } ] | ipv6 verify unicast source reachable-via { rx | any [ allow-default ] }

### Syntax Description

no	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	(Optional) Source is reachable via interface on which packet was received
any	(Optional) Source is reachable via any interface
allow-default	(Optional) Loose Default Route Unicast Reverse Path Forwarding

### 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
is-type	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
component	(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
mode	(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
component	component
type	(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
pid	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-igp

# 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-igp

## 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-igp

## isis authentication-type cleartext

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

### Syntax Description

no	(Optional) 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-igp

## isis authentication-type cleartext level-1

[no] isis authentication-type { cleartext | md5 } level-1

### Syntax Description

no	(Optional) Negate a command or set its defaults
isis	IS-IS configuration commands
authentication-type	Set hello authentication type
cleartext	Cleartext
md5	HMAC-MD5
level-1	Specify authentication type for level-1 IIHs

### Command Mode

- /exec/configure/if-igp



## isis authentication-type cleartext level-2

[no] isis authentication-type { cleartext | md5 } level-2

### Syntax Description

no	(Optional) Negate a command or set its defaults
isis	IS-IS configuration commands
authentication-type	Set hello authentication type
cleartext	Cleartext
md5	HMAC-MD5
level-2	Specify authentication type for level-2 IIHs

### Command Mode

- /exec/configure/if-igp

## isis authentication key-chain

[no] isis authentication key-chain <auth-keychain>

### Syntax Description

no	(Optional) Negate a command or set its defaults
isis	IS-IS configuration commands
authentication	Set hello authentication keychain
key-chain	Set hello authentication keychain
auth-keychain	authentication keychain

### Command Mode

- /exec/configure/if-igp

# isis authentication key-chain level-1

[no] isis authentication key-chain <auth-keychain> level-1

## Syntax Description

no	(Optional) Negate a command or set its defaults
isis	IS-IS configuration commands
authentication	Set hello authentication keychain
key-chain	Set hello authentication keychain
auth-keychain	authentication keychain

## Command Mode

- /exec/configure/if-igp

## isis authentication key-chain level-2

[no] isis authentication key-chain <auth-keychain> level-2

### Syntax Description

no	(Optional) Negate a command or set its defaults
isis	IS-IS configuration commands
authentication	Set hello authentication keychain
key-chain	Set hello authentication keychain
auth-keychain	authentication keychain

### Command Mode

- /exec/configure/if-igp

# 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
circuit-type	IS-IS circuit type
isis	

### 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
sec	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 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
sec	Hello interval value

## Command Mode

- /exec/configure/if-igp



## 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
sec	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-igp

# 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
multi	Hello multiplier value

Command Mode

- /exec/configure/if-igp

## 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
multi	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-igp

## 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 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 level-1

[no] isis ipv6 metric <metric> level-1

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
metric	Default metric
level-1	Apply metric to level-1 links

Command Mode

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

## isis ipv6 metric level-2

[no] isis ipv6 metric <metric> level-2

### 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
metric	Default metric
level-2	Apply metric to level-2 links

### 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
msec	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
mesh-id	Mesh group number
blocked	Block LSPs on this interface

### Command Mode

- /exec/configure/if-igp

# isis metric level-1

[no] isis metric <metric> level-1

## Syntax Description

no	(Optional) Negate a command or set its defaults
isis	IS-IS configuration commands
metric	Configure the metric for interface
metric	Default metric
level-1	Apply metric to level-1 links

## Command Mode

- /exec/configure/if-igp /exec/configure/if-mpls-tunnel

## isis metric level-2

[no] isis metric <metric> level-2

### Syntax Description

no	(Optional) Negate a command or set its defaults
isis	IS-IS configuration commands
metric	Configure the metric for interface
metric	Default metric
level-2	Apply metric to level-2 links

### 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-igp

# isis mtu-check level-1

[no] isis mtu-check level-1

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

Command Mode

- /exec/configure/if-igp

## isis mtu-check level-2

[no] isis mtu-check 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-2	Configure mtu-check for level-2

Command Mode

- /exec/configure/if-igp

## 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	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

### 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
level	Level to suppress
level_obsolete	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

### Command Mode

- /exec/configure/if-igp



## isis prefix-attributes n-flag-clear

[no] isis prefix-attributes n-flag-clear

Syntax Description

no	(Optional) Negate a command or set its defaults
isis	IS-IS configuration commands
prefix-attributes	Segment routing attribute
n-flag-clear	Clear N flag for prefix

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
priority	Priority value
level-1	Specify priority for level-1 routing
level-2	Specify priority for level-2 routing

### Command Mode

- /exec/configure/if-igp

# 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
sec	Interval between retransmissions of the same LSP (seconds)

## Command Mode

- /exec/configure/if-igp

# 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
msec	Delay between retransmitted LSPs (milliseconds)

Command Mode

- /exec/configure/if-igp

# 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 RIP perspective

Command Mode

- /exec/configure/router-rip

# 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 OSPFV3 perspective

Command Mode

- /exec/configure/router-ospf3

# 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 this router from OSPF perspective

Command Mode

- /exec/configure/router-ospf

# itd

{ itd <service-name> } | { no itd <service-name> }

## Syntax Description

no	Negate a command or set its defaults
itd	ITD service
service-name	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
svc-name	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 include access-list
acl-name	acl-name
refresh	Refresh ITD policies based on access-list changes

### 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
svc-name	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
service-name	ITD service-name

### Command Mode

- /exec/configure





## J Commands

---

- [job name](#), on page 2168
- [json-pretty](#), on page 2169
- [json-pretty](#), on page 2170
- [json](#), on page 2171
- [json](#), on page 2172

# 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-pretty

| json-pretty [ native ]

Syntax Description

	Pipe command output to filter
json-pretty	output in json pretty print format
native	(Optional) output in json format using native infra

Command Mode

- /output

# json

| json

Syntax Description

	Pipe command output to filter
json	output in json format

Command Mode

- /output

# json

| json [ native ]

Syntax Description

	Pipe command output to filter
json	output in json format
native	(Optional) output in json format using native infra

Command Mode

- /output



## K Commands

---

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- [key-octet-string 7 cryptographic-algorithm AES\\_128\\_CMAC](#), on page 2175
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# 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 <keysting> cryptographic-algorithm AES_128_CMAC }
```

## Syntax Description

key-octet-string	Set key octet string
7	Encryption Type - Proprietary
keysting	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
keystring	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)
keystring	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)
keystring	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
pri	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)
keystring	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
keystring	key string

## Command Mode

- /exec/configure/keychain-key

# key

[no] key <macsec\_keyid>

Syntax Description

no	(Optional) Negate a command or set its defaults
key	Configure a macsec key
macsec_keyid	MACsec Key identifier ranging from 1 octet to 32

Command Mode

- /exec/configure/macseckeychain



# key

[no] key <keyid>

Syntax Description

no	(Optional) Negate a command or set its defaults
key	Configure a key
keyid	Key identifier

Command Mode

- /exec/configure/keychain

# key chain

[no] key chain <keychain>

Syntax Description

no	(Optional) Negate a command or set its defaults
key	Key Management
chain	Keychain Management
keychain	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
keychain	macsec key-chain name
macsec	Macsec Keychain

Command Mode

- /exec/configure

# kill background

kill background <pid>

Syntax Description

kill	terminate processes
background	kill background processes (started with 'source background <file>' command)
pid	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
ip-addr	ip address of kubernetes Host
port	Port number of the host
s0	port number
vrf	(Optional) Display per-VRF information
vrf-name	(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
num-of-moves	Number of host moves to be allowed
duration	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
timeout	Unfreeze timeout (secs)
retry-count	Unfreeze retry count

### Command Mode

- /exec/configure

## 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 <pfx-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
pfx-list	IP prefix-list for destination prefixes

## Command Mode

- /exec/configure/ldp

# lACP graceful-convergence

lACP graceful-convergence | no lACP graceful-convergence

## Syntax Description

no	Negate a command or set its defaults
lACP	Set LACP parameters for the interface
graceful-convergence	Configure port-channel lACP graceful convergence. Disable this only with lACP ports connected to Non-Nexus peer. Disabling this with Nexus peer can lead to port suspension

## Command Mode

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

# lACP max-bundle

lACP max-bundle <max-bundle-number> | no lACP max-bundle [ <max-bundle-number> ]

## Syntax Description

no	Negate a command or set its defaults
lACP	Set LACP parameters for the interface
max-bundle	Configure the port-channel max-bundle
max-bundle-number	Enter the max-bundle number

## Command Mode

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

# lACP min-links

lACP min-links <min-links-number> | no lACP min-links [ <min-links-number> ]

## Syntax Description

no	Negate a command or set its defaults
lACP	Set LACP parameters for the interface
min-links	Configure the port-channel min-links
min-links-number	Enter the min-link number

## 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 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
port-pri	Enter port priority

## Command Mode

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

# 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 rate

lACP rate <rate\_type>

## Syntax Description

lACP	Set LACP parameters for the interface
rate	Configure rate at which PDUs are sent by LACP
rate_type	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 suspend-individual

lACP suspend-individual | no lACP suspend-individual

## Syntax Description

no	Negate a command or set its defaults
lACP	Set LACP parameters for the interface
suspend-individual	Configure lACP port-channel state. Disabling this will cause lACP to put the port to individual state and not suspend the port in case it does not get LACP BPDU from the peer ports in 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 system-mac

lACP system-mac <mac-address> [ role <role> ] | no lACP system-mac

## Syntax Description

no	Negate a command or set its defaults
lACP	Set LACP parameters for the interface
system-mac	Configure the MAC address to be used for the LACP Protocol exchanges
mac-address	MAC-address(FORMAT :xxxx.xxxx.xxxx)
role	(Optional) Configure the role for this Switch
role	(Optional) Role played by the Switch

## Command Mode

- /exec/configure

## 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
sys-pri	Enter System Priority

Command Mode

- /exec/configure

# lacp vpc-convergence

lacp vpc-convergence | no lacp vpc-convergence

Syntax Description

no	Negate a command or set its defaults
lacp	Set LACP parameters for the interface
vpc-convergence	Enable lacp convergence for vPC port channels.

Command Mode

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

# last

| last [ <lines> ]

## Syntax Description

	Pipe command output to filter
last	Display last lines
lines	(Optional) number of lines to print

## Command Mode

- /output

# latency

{ [ no ] latency <lat> | no latency }

## Syntax Description

latency	Provide the latency value for this POSTCARD queue_profile
lat	queue_profile latency (nano seconds). Default is 2048 ns

## Command Mode

- /exec/configure/config-postcard-q-prof

# latency

{ [ no ] latency <lat> | no latency }

## Syntax Description

latency	Provide the latency value for this INT queue_profile
lat	queue_profile latency (nano seconds). Default is 2048 ns

## Command Mode

- /exec/configure/config-int-q-prof



# latency quantization

{ [ no ] latency quantization <lat> | no latency quantization }

## Syntax Description

latency	Provide the latency value for this POSTCARD flow-profile
quantization	Provide the latency value for this POSTCARD flow-profile
lat	flow-profile latency quantization. This value will be converted to a power of 2 (nanoseconds). For example, value of 11 will be converted to 2 power 11 which is 2048. This means that if the difference between ingress timestamp and egress timestamp is more than 2048 nanosec at any postcard in the path, one upstream report or local report will be generated per flow. The allowed values are in range 0-28. Default is 11.

## Command Mode

- /exec/configure/config-postcard-flow-prof

# latency quantization

{ [ no ] latency quantization <lat> | no latency quantization }

## Syntax Description

latency	Provide the latency value for this INT flow-profile
quantization	Provide the latency value for this INT flow-profile
lat	flow-profile latency quantization. This value will be converted to a power of 2 (nanoseconds). For example, value of 11 will be converted to 2 power 11 which is 2048. This means that if the difference between ingress timestamp and egress timestamp is more than 2048 nanosec at any point in the path, one upstream report or local report will be generated per flow. The allowed values are in range 0-28 Default is 11.

## Command Mode

- /exec/configure/config-int-flow-prof

## 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
monitorname	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
syslog-interval	(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
s0	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
i0	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> | referral-disable } ]
```

## 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
hostipname	IPV4/IPV6 address or DNS name
enable-ssl	(Optional) LDAP server enable ssl
port	(Optional) LDAP server's port (default: global config)
i1	(Optional) port number
timeout	(Optional) LDAP server timeout period in seconds
i2	(Optional) LDAP server timeout in seconds (default: global config)
rootDN	(Optional) LDAP server root DN
s0	(Optional) root DN
password	(Optional) LDAP server root password
7	(Optional) LDAP root password (encrypted)
s1	(Optional) password (encrypted)
port1	(Optional) LDAP server's port (default: global config)
i3	(Optional) port number
timeout1	(Optional) LDAP server timeout period in seconds
i4	(Optional) LDAP server timeout in seconds (default: global config)
s2	(Optional) password (clear text)
port2	(Optional) LDAP server's port (default: global config)
i5	(Optional) port number
timeout2	(Optional) LDAP server timeout period in seconds
i6	(Optional) LDAP server timeout in seconds (default: global config)
timeout3	(Optional) LDAP server timeout period in seconds

i7	(Optional) LDAP server timeout in seconds (default: global config)
timeout4	(Optional) LDAP server timeout period in seconds
i8	(Optional) LDAP server timeout in seconds (default: global config)
timeout5	(Optional) LDAP server timeout period in seconds
i9	(Optional) LDAP server timeout in seconds (default: global config)
referral-disable	(Optional) LDAP server disable referrals

## 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

username	(Optional) <s0>
no	(Optional) Negate a command or set its defaults
ldap-server	Configure LDAP related parameters
host	LDAP server's IP address
hostipname	IPV4/IPV6 address or DNS name
test	Parameters to send test packets
7	(Optional) LDAP test password (encrypted)
s0	(Optional) user name
password	(Optional) user password in test packets
s1	(Optional) test password
s2	(Optional) test password (encrypted)
rootDN	rootDN in test packets
r1	root DN
idle-time	(Optional) time interval for monitoring the server
i1	(Optional) time period in minutes

### 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
i0	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



# 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
card-type	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
min-val	minimum monitor erspan-dst session value
maximum	maximum monitor erspan-dst session to allocate
max-val	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
min-val	minimum monitor inband source value
maximum	maximum monitor inband source to allocate
max-val	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
min-val	minimum monitor local session value
maximum	maximum monitor local session to allocate
max-val	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
min-val	
maximum	maximum port-channels to allocate
max-val	
equal-to-min	set maximum value equal to min

### Command Mode

- /exec/configure/vdc-template /exec/configure/vdc

## 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
min-val	minimum VLANs value
maximum	maximum VLANs to allocate
max-val	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
number1	minimum vrf resource value
maximum	maximum vrf resources to allocate
number2	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
addr_count	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

## 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
bw_seconds	seconds
periodic-flooding	Link Management periodic flooding interval
flood_seconds	seconds [0 to disable, minimum set to 30]

### Command Mode

- /exec/configure/te

# link-state-trap

[no] link-state-trap

Syntax Description

no	(Optional) Negate a command or set its defaults
link-state-trap	Enable/disable link state change traps

Command Mode

- /exec/configure/if-fc /exec/configure/if-bay /exec/configure/if-ext /exec/configure/if-fcip /exec/configure/if-iscsi

## link debounce

```
link debounce { [ link-up [ time <time_val_link_up> ] ] | [ time <time_val> ] } | no link debounce [ link-up ]
```

### Syntax Description

no	Negate a command or set its defaults
link	Configure link
debounce	Configure link debounce timer
link-up	(Optional) Timer for the link-up event
time	(Optional) Link debounce time
time_val	(Optional) Timer value (in milliseconds)
time_val_link_up	(Optional) Timer value (in milliseconds)

### Command Mode

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

# link rxlos

link rxlos [ algo <algo\_val> ] | no link rxlos [ algo <algo\_val> ]

## Syntax Description

no	Negate a command or set its defaults
link	Configure link
rxlos	Configure link rxlos algo
algo	(Optional) Link rxlos algo control
algo_val	(Optional) rxlos control options

## Command Mode

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

# list

list

Syntax Description

list	Re-list all of the attribute list entries
------	---

Command Mode

- /exec/configure/te/lsp-attr



# list

list [ <index> ]

## Syntax Description

list	Re-list all or part of the explicit path entries
index	(Optional) List starting at entry index number

## Command Mode

- /exec/configure/te/expl-path

# listobject-boolean not

listobject-boolean <object-id> not

Syntax Description

listobject-boolean	Configure Object as member of tracking list
object-id	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
object-id	Tracked Object
weight	Assign a weight to object
weight-val	Assign a weight to object
threshold-weight	Threshold parameters
weight-thresh	Weight threshold
weightup	Up threshold
up-weight	Up threshold weight
weightdown	(Optional) Down threshold
down-weight	(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
object-id	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
i0	holdtime in sec
reinit	Delay (in sec) for LLDP initialisation on any interface
i1	reinit in sec
timer	Specify the rate at which LLDP packets are sent (in sec)
i2	rate of packets in sec
portid-subtype	config portid subtype for LLDP TLV and SNMP MIBs
i3	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 dcbx version auto

lldp dcbx version auto

Syntax Description

lldp	Configure LLDP parameters
dcbx	Configure DCBX parameters
version	Change the DCBX protocol version
auto	Auto-detect the DCBX version

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 dcbx version cee

[no] lldp dcbx version { cee | ieee }

### Syntax Description

no	(Optional) Negate a command or set its defaults
lldp	Configure LLDP parameters
dcbx	Configure DCBX parameters
version	Change the DCBX protocol version
cee	The CEE version of DCBX
ieee	The IEEE 802.1 version of DCBX

### 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 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.
ip-addr	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.
vlan-id	(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> } } + } [ least-bit ]
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
load-balance	ITD Loadbalance
method	ITD Loadbalance method
src	Source based parameters
dst	Destination based parameters
ip	IP
ip-l4port	IP and L4 port
src-protocol	Protocol
range	Match only packets in the range of port numbers
src-x	
src-y	
ip-dst	IP
dst-protocol	Protocol
dst-x	
dst-y	
buckets	Used to create the buckets for traffic distribution, and it should be in powers of 2
num	Loadbalance bucket number
mask-position	Loadbalance mask position
mask	Loadbalance mask position number range 0-31 for IPv4 and 0-127 for IPv6
least-bit	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

### 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
src-protocol	(Optional) Protocol
range	(Optional) Match only packets in the range of port numbers
src-x	(Optional)
src-y	(Optional)
ip-dst	(Optional) IP
dst-protocol	(Optional) Protocol
dst-x	(Optional)
dst-y	(Optional)
buckets	(Optional) Used to create the buckets for traffic distribution, and it should be in powers of 2
num	(Optional) Loadbalance bucket number
mask-position	(Optional) Loadbalance mask position
mask	(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
src-protocol	(Optional) Protocol
range	(Optional) Match only packets in the range of port numbers
src-x	(Optional)
src-y	(Optional)
ip-dst	(Optional) IP
dst-protocol	(Optional) Protocol
dst-x	(Optional)
dst-y	(Optional)
buckets	(Optional) Used to create the buckets for traffic distribution, and it should be in powers of 2
num	(Optional) Loadbalance bucket number
mask-position	(Optional) Loadbalance mask position
mask	(Optional) Loadbalance mask position number range 0-23 for IPv4 and 0-127 for IPv6

### Command Mode

- /exec/configure/plb



# 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
interval	Load interval delay in seconds
interval l	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

## 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
interval	Load interval delay in seconds
interval1	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

## 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
counter_val	Specify counter for this load interval
interval	Load interval delay in seconds
interval1	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

## 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
interval	Load interval delay in seconds
counter_val	Specify counter for this load interval
interval1	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

### Command Mode

- /exec/configure/if-vlan-common

# load

load <uri0>

Syntax Description

load	Load system image
uri0	Enter image URI

Command Mode

- /exec

# load

load <uri0> [ <s0> ]

## Syntax Description

load	Load system image
uri0	Enter image URI
s0	(Optional) Options

## Command Mode

- /exec

# load

load <uri0> [ <s0> ]

## Syntax Description

load	Load system image
uri0	Enter image URI
s0	(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
asn	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
asn	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	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
local-label	Configure local label assignment and forwarding
static-inlabel	Label Value
prefix	For a given prefix
prefix	Destination prefix
mask	Destination prefix mask
prefix-mask	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	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
local-label	Configure local label assignment and forwarding
static-inlabel	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
module	please enter the module number
fan	blink Fan led
fan_num	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

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

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-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/l2mp-isis/l2mp-isis-vrf-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	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
log-neighbor-warnings	Enable/Disable IP-EIGRP neighbor warnings
interval	(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 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
i0	(Optional) 0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

# 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 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 [ 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

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 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

[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

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 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/sub-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

## logging ip access-list cache

```
[no] logging ip access-list cache { { interval <seconds> } }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
ip	IP configuration
access-list	Access-list
cache	logging
interval	Log-update interval (in sec)
seconds	Log-update interval in seconds

### Command Mode

- /exec/configure

## logging ip access-list cache entries

```
[no] logging ip access-list cache { { entries <num_entries> } | { threshold <num_packets> } }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
ip	IP configuration
access-list	Access-list
cache	logging
entries	Maximum number of log entries cached in software
num_entries	Number of entries
threshold	Log-update threshold
num_packets	Log-update threshold (number of hits)

### Command Mode

- /exec/configure

# logging ip access-list detailed

[no] logging ip access-list detailed

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Enable detailed logging
ip	configured IP
access-list	Access-list
detailed	Detailed ACL information

Command Mode

- /exec/configure

# logging ip access-list include sgt

[no] logging ip access-list include sgt

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
ip	IP configuration
access-list	Access-list
include	Include additional fields in syslogs
sgt	Include source group tag info in syslogs

Command Mode

- /exec/configure



# logging level

[no] logging level { { routing ipv6 multicast } | m6rib } <level>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
routing	Configure routing information
ipv6	Configure IPv6 features
multicast	Set syslog filter level for MRIB
m6rib	Set syslog filter level for MRIB
level	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
i1	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
authpriv	Set level for Authorization (Private) system
i2	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
cron	Set level for Cron/at facility
i3	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
daemon	Set level for System daemons
i4	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
ftp	Set level for File Transfer System
i5	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
kernel	Set level for kernel
i6	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
local0	Set level for Local use daemons
i7	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
local1	Set level for Local use daemons
i8	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
local2	Set level for Local use daemons
i9	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
local3	Set level for Local use daemons

i10	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
local4	Set level for Local use daemons
i11	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
local5	Set level for Local use daemons
i12	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
local6	Set level for Local use daemons
i13	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
local7	Set level for Local use daemons
i14	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
lpr	Set level for Line Printer System
i15	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
mail	Set level for Mail system
i16	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
news	Set level for USENET news
i17	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
syslog	Set level for Internal Syslog Messages
i18	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
user	Set level for User Process
i19	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
i20	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 { { routing [ ip | ipv4 ] multicast } | mrib } <level>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
routing	Configure routing information
ip	(Optional) Configure IP features
ipv4	(Optional) Configure IP features
multicast	Set syslog filter level for MRIB
mrib	Set syslog filter level for MRIB
level	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 } <i0>

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
i0	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
i0	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

### Command Mode

- /exec/configure

# logging level acllog

logging level acllog <i0> | no logging level acllog [ <i0> ]

## Syntax Description

no	Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
acllog	Set level for acllog syslog messages
i0	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
i0	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
i0	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
level	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
i0	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
level	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
level	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
i0	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

## logging level assoc\_mgr

[no] logging level assoc\_mgr <i0> | no logging level assoc\_mgr [ <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
assoc_mgr	Show Association Manager Logging Configuration
i0	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

### Command Mode

- /exec/configure

## logging level backup

[no] logging level { backup | flexlink } <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
backup	Set level for Switchport Backup syslog messages
flexlink	Set level for Switchport Backup syslog messages
i0	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
i0	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
level	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
i0	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
i0	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
i0	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
i0	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
i0	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
i0	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
i0	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
level	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
i0	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
i0	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
i0	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
i0	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
i0	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
i0	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
level	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
i0	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
i0	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
i0	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
level	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
eigrp-ptag	(Optional) Process tag
level	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
i0	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

## Command Mode

- /exec/configure

# logging level epp

[no] logging level epp <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
epp	Set level for EPP syslog messages
i0	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
i0	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
level	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
level	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
i0	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
i0	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
i0	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)
level	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

## Command Mode

- /exec/configure

## logging level fabricpath switch-id

[no] logging level fabricpath switch-id <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
fabricpath	fabricpath configuration
switch-id	switch-id submodule of fabricpath
i0	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure



# logging level fcoe\_mgr

[no] logging level fcoe\_mgr <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
fcoe_mgr	Set level for fcoe_mgr syslog messages
i0	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
i0	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
i0	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
i0	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

# logging level hardware-telemetry

[no] logging level hardware-telemetry <i0>

## Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
hardware-telemetry	Set level for hardware-telemetry syslog messages
i0	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
i0	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
i0	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
level	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
i0	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
i0	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
level	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
i0	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
i0	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

## logging level ip sla twamp-server

[no] logging level ip sla twamp-server <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)
twamp-server	Set level for sla-twamp-server syslog messages
i0	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
i0	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
i1	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
i0	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
i0	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
level	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
i0	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
i0	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
level	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

## Command Mode

- /exec/configure

# logging level l2fm

logging level l2fm <i0> | no logging level l2fm

Syntax Description

no	Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
l2fm	Set level for l2fm syslog messages
i0	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

# logging level l2rib

[no] logging level l2rib <level>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
l2rib	l2rib syslog
level	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

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
level	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
i0	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
i0	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
i0	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
level	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
i0	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

## logging level m2rib

[no] logging level m2rib <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
m2rib	Set level for m2rib syslog messages
i0	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

# logging level mfdm

logging level mfdm <i0> | no logging level mfdm

## Syntax Description

no	Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
mfdm	Set level for mfdm syslog messages
i0	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

## Command Mode

- /exec/configure

## logging level mfwd

[no] logging level { mfwd | mcastfwd } <level>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
mfwd	Configures Global IP Multicast Forwarding
mcastfwd	Configures Global IP Multicast Forwarding
level	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
i0	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
i0	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
i0	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
level	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
level	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
level	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
i0	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
level	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
i0	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
i0	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
i0	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

## Command Mode

- /exec/configure /exec/configure/nbm-vrf

# 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
level	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
level	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
level	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

# logging level ngmvpn

[no] logging level ngmvpn <level>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
ngmvpn	Set syslog filter level for NGMVPN
level	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
i0	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 npv

[no] logging level npv <i0>

## Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
npv	Set level for NPV syslog messages
i0	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

## Command Mode

- /exec/configure

# 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
i0	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
inp	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
level	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
i0	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
level	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
level	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
level	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
level	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
i0	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
i0	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
level	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
i0	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
i0	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
i0	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
i0	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
i0	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
i0	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>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
poed	Show PoE Daemon Logging Configuration
i0	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
i0	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

# logging level port-resources

[no] logging level port-resources <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
port-resources	Set level for prn syslog messages
i0	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
i0	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

# logging level port

[no] logging level port <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
port	Set level for port syslog messages
i0	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
i0	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure



# logging level port link-failure

[no] logging level port link-failure <level>

## Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
port	Set level for port syslog messages
link-failure	Configure logging level for link failure syslog messages
level	Logging Level

## 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
i0	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
i0	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
i0	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
i0	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
level	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
level	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
i0	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure



# logging level sal

[no] logging level sal <i0>

## Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
sal	Set level for sal syslog messages
i0	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 <i0>

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
i0	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

# logging level segment-routing

[no] logging level segment-routing <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
segment-routing	Set level for SR syslog messages
i0	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
i0	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
i0	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 <i0>

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
i0	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
level	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 <i0>

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
i0	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
i0	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
i0	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

# logging level spm

[no] logging level spm <i0>

## Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
spm	Set level for spm syslog messages
i0	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
log-level	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
i0	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
i0	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
i0	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
level	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure



# logging level template\_manager

[no] logging level template\_manager <i0>

## Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
template_manager	Set level for template manager syslog messages
i0	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
i0	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
i0	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

## Command Mode

- /exec/configure

# logging level u2rib

[no] logging level u2rib <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
u2rib	Set level for u2rib syslog messages
i0	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
level	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
i0	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

# logging level ufdm

[no] logging level ufdm <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
ufdm	Set level for ufdm syslog messages
i0	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
level	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
i0	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
i0	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

# logging level vlan\_mgr

logging level vlan\_mgr <i0> | no logging level vlan\_mgr [ <i0> ]

## Syntax Description

no	Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
vlan_mgr	Set level for VLAN syslog messages
i0	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
i0	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
i0	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
i0	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
cfg_level_num	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
vrrp-eng	Set level for vrrp engine
eng_level_num	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
level	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure



# logging level vsan

{ logging level vsan <i0> | no logging level vsan [ <i1> ] }

## Syntax Description

no	Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
i0	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
i1	(Optional) 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
i0	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

# logging level vtp

[no] logging level vtp <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
vtp	Set level for vtp syslog messages
i0	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

# logging level wwnm

[no] logging level wwnm <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
wwnm	Set WWN Manager syslog level
i0	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
i0	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
s0	Enter the logfile name
i0	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
size	(Optional) Set logfile size
i1	(Optional) Enter the logfile size in bytes

### Command Mode

- /exec/configure

# 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
info	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
i0	(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
i0	(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
ip0	Hostname/IPv4/IPv6 address
string	Use text string as origin-id of logging messages
s0	Enter string to append to the front of syslog msgs

### Command Mode

- /exec/configure

# logging rate-limit

[no] logging rate-limit

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
rate-limit	Enables rate limit for log messages

Command Mode

- /exec/configure

## logging rfc-strict 5424

[no] logging rfc-strict { 5424 }

### Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
rfc-strict	Set RFC to which messages should compliant
5424	Syslogs will be compliant to RFC 5424

### Command Mode

- /exec/configure

# logging server

```
[no] logging server <host0> [ [ <i1> ] [ port <port> ] [ secure [ trustpoint client-identity <trustpoint-label> ]
] [ 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
host0	Hostname/IPv4/IPv6 address of the Remote Syslog Server
i1	(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
port	(Optional) Range from 1 - 65535(Default 514)
secure	(Optional) Enable secure connection to remote server
trustpoint	(Optional) Trustpoint configuration
client-identity	(Optional) Client Identity certificate for mutual authentication
trustpoint-label	(Optional) trustpoint to use for client certificate authentication
use-vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(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 server dns-refresh-interval

[no] logging server dns-refresh-interval <i0>

## Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
server	Enable forwarding to Remote Syslog Server
dns-refresh-interval	DNS refresh interval for remote syslog server hostnames
i0	Configure DNS Refresh interval from 10 minutes to 24 hours Default:60 (will cancel any existing timers)

## 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
interface	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

# logout-warning

{ logout-warning <i0> | no logout-warning [ <i0> ] }

## Syntax Description

no	Negate a command or set its defaults
logout-warning	Configure logout warning
i0	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
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Command Mode

- /exec/configure/dot1x-cred

# 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
max-wait	Maximum wait between trigger and LSP generation (milli-secs)
initial-wait	(Optional) Initial wait between trigger and LSP generation (milli-secs)
second-wait	(Optional) Second wait used in LSP generation (milli-secs) during backoff

## Command Mode

- /exec/configure/l2mp-isis/l2mp-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
level	IS-IS level
max-wait	Maximum wait between trigger and LSP generation (milli-secs)
initial-wait	(Optional) Initial wait between trigger and LSP generation (milli-secs)
second-wait	(Optional) Second wait used in LSP generation (milli-secs) during backoff

## Command Mode

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



# 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
max-wait	Maximum wait between trigger and LSP generation (milli-secs)
initial-wait	(Optional) Initial wait between trigger and LSP generation (milli-secs)
second-wait	(Optional) Second wait used in LSP generation (milli-secs) during backoff

## 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
mtu	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
mtu	Maximum LSP size in bytes

## 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
mtu	Maximum LSP size in bytes

## Command Mode

- /exec/configure/l2mp-isis/l2mp-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
lsp-name	Name for this LSP

Command Mode

- /exec/configure/mpls\_static/ipv6

# 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
lsp-name	Name for this LSP

Command Mode

- /exec/configure/mpls\_static/ipv4

# 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
name	Name of LSP attribute list

Command Mode

- /exec/configure/te







## M Commands

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## m2rib debug log-size transactions

```
m2rib debug log-size transactions { { received | u2rib | mfdm | pixm | eltm } [ error-log ] | announced } {
<size> | small | medium | large } <size_bytes>
```

### Syntax Description

m2rib	Configure m2rib
debug	Configure m2rib debug
log-size	Set log sizes
transactions	Set transaction log sizes
received	Set received transaction log size
announced	Set announced transaction log size
u2rib	Set U2RIB transaction log size
mfdm	Set MFDM transaction log size
pixm	Set PIXM transaction log size
eltm	Set ELTM transaction log size
error-log	(Optional) errors only log
size	Size in number of transactions
small	Set number of transactions default small log size (0 disables limits)
medium	Set number of transactions default medium log size
large	Set number of transactions default large log size
size_bytes	Max log size in number of bytes

### Command Mode

- /exec/configure

# mac-addr

```
{ mac-addr <dstmac> <smac> [ dot1q <dot1q-id> ] }
```

## Syntax Description

mac-addr	Mac
dstmac	Destination mac address
smac	Source mac address
dot1q	(Optional) Encapsulation dot1q/bd
dot1q-id	(Optional) Encapsulation dot1q/bd on which the mac is learnt

## Command Mode

- /exec/configure/configngoamccpayload

# mac-address

mac-address <macaddress> | no mac-address [ <macaddress> ]

## Syntax Description

no	Negate a command or set its defaults
mac-address	Virtual MAC address
macaddress	MAC address(FORMAT:xxxx.xxxx.xxxx)

## Command Mode

- /exec/configure/if-eth-any/hsrp\_ipv4 /exec/configure/if-eth-any/hsrp\_ipv6



# 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
mac-addr	MAC address

## Command Mode

- /exec/configure/if-vlan-common

# 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)
mac_address_val	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 bpdu source version 2

[no] mac-address bpdu source version 2

### Syntax Description

no	(Optional) Negate a command or set its defaults
mac-address	change vpc mac address
bpdu	bpdu
source	source
version	version
2	use version 2 bpdu source mac-address

### Command Mode

- /exec/configure/vpc-domain

## 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
addr	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-learn disable

mac-learn disable | no mac-learn disable

Syntax Description

no	Negate a command or set its defaults
mac-learn	Mac Learning disable/enable
disable	Mac Learning disable to use switch as a HUB. Do a clear mac address-table dynamic after disabling mac learning

Command Mode

- /exec/configure

# mac-learn disable

mac-learn disable | no mac-learn disable

Syntax Description

no	Negate a command or set its defaults
mac-learn	Mac Learning disable/enable on vlan
disable	Mac Learning disable on vlan

Command Mode

- /exec/configure/vlan-config

## mac-list permit

```
{ mac-list <maclist-name> [ seq <seq> ] { permit | deny } <mac-addr> [ <mac-mask> ] } | { no mac-list {
<maclist-name> | <maclist-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
maclist-name	Name of mac-list
maclist-name	Name of mac-list
maclist-name	Known mac-list name
seq	(Optional) Sequence number of an entry
seq	(Optional) Sequence number
permit	Specify routes to forward
deny	Specify routes to reject
mac-addr	MAC address
mac-mask	(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
name	List name
client	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
clienttype	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
clientID	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

### Command Mode

- /exec/configure

## mac address-table aging-time

```
mac address-table aging-time { 0 | <seconds> } [ { vlan <vlan-id> } ] [ __readonly__ <info_str> ] | no mac
address-table aging-time [ [ 0 | <seconds> ] ]
```

### Syntax Description

no	Negate a command or set its defaults
mac	MAC configuration commands
address-table	MAC Address Table
aging-time	Aging time
0	0 disables aging
seconds	Aging time in seconds.
vlan	(Optional) VLAN
vlan-id	(Optional) VLAN ID
__readonly__	(Optional)
info_str	(Optional) Information

### Command Mode

- /exec/configure

## mac address-table guard-vpc-peergw-mac

[no] mac address-table guard-vpc-peergw-mac

Syntax Description

no	(Optional) Negate a command or set its defaults
mac	MAC configuration commands
address-table	MAC Address Table
guard-vpc-peergw-mac	Prevent vPC Peer gateway MAC Spoofing

Command Mode

- /exec/configure

## mac address-table loop-detect port-down

mac address-table loop-detect port-down | no mac address-table loop-detect port-down

### Syntax Description

no	Negate a command or set its defaults
mac	MAC configuration commands
address-table	MAC Address Table
loop-detect	Action for Mac loop detection
port-down	Take port-down action for mac loop detection

### 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
mac-address	mcast MAC Address, not in Unicast IP Range
vlan	VLAN
vlan	VLAN
bridge-domain	BD
bdid	BD
interface	Interface
vsi	(Optional) Specify if this interface is a VSI
interface	Interface name

### Command Mode

- /exec/configure

## mac address-table notification mac-move

mac address-table notification mac-move | no mac address-table notification mac-move

Syntax Description

no	Negate a command
mac	MAC configuration commands
address-table	MAC Address Table
notification	Notify of mac-move
mac-move	MAC move notification on syslog

Command Mode

- /exec/configure

## mac address-table notification threshold

mac address-table notification threshold [ limit <percentage> interval <seconds> ] | no mac address-table notification threshold

### Syntax Description

no	Negate a command
mac	MAC configuration commands
address-table	MAC Address Table
notification	Notify of mac-move
threshold	MAC Address Table threshold notification
limit	(Optional) Specify the percentage limit beyond which notifications are enabled
percentage	(Optional) Percentage of MAC Table Consumption
interval	(Optional) Minimum time in seconds between two notifications
seconds	(Optional) Interval time in seconds

### Command Mode

- /exec/configure

## mac address-table static vlan interface

```
mac address-table static <mac-address> vlan <vlan-id> { interface <interface-name> | drop } [ auto-learn ] [
__readonly__ <info_str> ] | no mac address-table static <mac-address> vlan <vlan-id>
```

### Syntax Description

no	Negate a command or set its defaults
mac	MAC configuration commands
address-table	MAC Address Table
static	Static Entry
mac-address	MAC Address
vlan	VLAN
vlan-id	VLAN ID
interface	Interface
interface-name	Interface name
drop	Drop all traffic
auto-learn	(Optional) Allow moving this MAC address
__readonly__	(Optional)
info_str	(Optional) Information

### Command Mode

- /exec/configure



# mac address-table static vni

mac address-table static <mac-address> vni <vni-id>

## Syntax Description

mac	MAC configuration commands
address-table	MAC Address Table
static	Static Entry
mac-address	MAC Address
vni	Virtual Network Identifier
vni-id	VNI ID

## 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
macaddr	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
macint	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
name	List name

Command Mode

- /exec/configure/if-set-acl-l2

## macsec keychain macsec keychain

```
[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>
]
```

### Syntax Description

macsec	Specify MKA keychain and MACsec policy
keychain	key chain
keychain_name	name of the keychain specified as a string
policy	(Optional) policy
policy_name	(Optional) name of the policy specified as a string
fallback-keychain	(Optional) fallback keychain
fallback_kc_name	(Optional) Name of fallback keychain specified as a string

### Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-ethernet-p2p /exec/configure/if-eth-base

# macsec policy

[no] macsec policy <policy\_name>

Syntax Description

macsec	Configure MACSEC
policy	Configure MACSEC policy
policy_name	Name of Policy

Command Mode

- /exec/configure



# macsec shutdown

[no] macsec shutdown

Syntax Description

macsec	Configure MACSEC
shutdown	shutdown / restart macsec

Command Mode

- /exec/configure

# managed-config-flag

[no] managed-config-flag <state>

Syntax Description

no	(Optional) Negate a command or set its defaults
state	

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
addr	IPv4 group address

### Command Mode

- /exec/configure/lisp-dynamic-aid /exec/configure/vrf/lisp-dynamic-aid

## 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
ms	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
key	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
ip	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 { [ 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
discard-class-list	List of discard-class values
class-map	Class map
cmmap-name	Match class-map name

## Command Mode

- /exec/configure/class-map



# 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> } | { ip roce <port-list> } } }
```

## Syntax Description

dscp-list	<dscp-enum>
cos-list	
precedence-list	<prec-enum>
no	(Optional) Negate a command or set its defaults
replace	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
match	Classification criteria
not	(Optional) Negate this match result
access-group	Access group
name	Named Access List
acl-name	Access List name
dscp	DSCP in IP(v4) and IPv6 packets
dscp-enum	
cos	IEEE 802.1Q Class of Service
qos-group	Qos-group
qos-group-list	List of qos-group values
precedence	Precedence in IP(v4) and IPv6 packets
prec-enum	
protocol	Protocol
protocol-enum	
packet	Packet
length	Length of IP datagram
len-list	List of IP packet length
ip	IP

rtp	Real Time Protocol
port-list	UDP port list that are using RTP
mpls	Match on MPLS label
experimental	Match on MPLS Experimental label
topmost	Match on topmost MPLS label
ip	IP
roce	Roce protocol. port to be used 3804
port-list	UDP port list that are using RoCE
exp-list	List of MPLS exp values

#### Command Mode

- /exec/configure/class-map

# 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-dest-port-addr> } | { udp-src-port <udp-src-port-addr> } | { udp-dst-port
<udp-dest-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 <cmmap-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
acl-name	Access List name
cos	IEEE 802.1Q class of service
dscp	DSCP in IP(v4) and IPv6 packets
dscp-list	List of DSCP values
dscp-enum	
precedence	Precedence in IP(v4) and IPv6 packets
precedence-list	List of precedence values
prec-enum	
discard-class	Discard class
discard-class-list	List of discard-class values
qos-group	Qos-group
qos-group-list	List of qos-group values
class-map	Class map
cmmap-name-plc	Match class-map name

protocol	Protocol
protocol-enum	
packet	Packet
length	Length of IP datagram
len-list	list of IP packet length
ip	IP
rtp	Real Time Protocol
port-list	UDP port list that are using RTP
mpls	Match on MPLS label
experimental	Match on MPLS Experimental label
topmost	Match on topmost MPLS label
exp-list	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

ipv6-flowlabel	Match on IPv6 Flowlabel
icmpv6-type	Match on ICMPv6 Message Type
icmpv6-code	Match on ICMPv6 Message Code
ipv4-dscp	Match on DSCP for IPV4 Packets
ipv6-dscp	Match on DSCP for IPV6 Packets
cos-value	class of service Value
mac_src	Source MAC address
mac_src_wild	Source MAC mask
mac_dest	Destination MAC address
mac_dest_wild	Destination MAC mask
eth-value	Ethernet type
vlan-number	Vlan number
tos-value	IPv4 TOS
tos-mask	IPV4 TOS Mask for DSCP
ip-protocol-value	IPV4 protocol
ip-s-addr	IPV4 address in format a.b.c.d
ip-d-addr	IPV4 address in format a.b.c.d
ip-s-mask	IPV4 address Mask in format a.b.c.d
ip-d-mask	IPV4 address Mask in format a.b.c.d
tcp-src-port-addr	Transport layer port number
tcp-dest-port-addr	Transport layer port number
udp-src-port-addr	Transport layer port number
udp-dest-port-addr	Transport layer port number
ifnum	Physical interface Name and Number
ipv6-protocol-value	IPv6 Protocol Value
ipv6-flowlabel-value	IPv6 Flowlabel
icmpv6-type-value	ICMPv6 Message Type
icmpv6-code-value	ICMPv6 Message Code
ipv4-dscp-list	List of IPV4 DSCP values

ipv6-dscp-list	List of IPV6 DSCP values
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**Command Mode**

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

## 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
acs-grp-name	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
ip_ipv6_mac	IP/IPv6/MAC
address	Match an access list
name	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
asnum	(Optional) <AA4> ,
asnum_range	(Optional) <AA4>-<AA4> ,
asnum_trail	<AA4> ,
asnum_range_trail	<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
aspl-name	AS path access list name
aspl-name	AS path access list name
aspl-name	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
aspl-name	AS path access list name
aspl-name	AS path access list name
aspl-name	Known as-path access-list name

## Command Mode

- /exec/configure/route-map

## match class-map

[no] match class-map <cmmap-name>

### Syntax Description

no	(Optional) Negate a command or set its defaults
match	Classification criteria
class-map	Class map
cmmap-name	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
name	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

no	(Optional) Negate a command or set its defaults
match	Classification criteria
cos	IEEE 802.1Q class of service
cos-list	List of class-of-service values

Command Mode

- /exec/configure/class-map/type/uf

# match cos

[no] match cos <cos-list>

## Syntax Description

cos-list	
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 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 datalink

[no] match datalink { mac source-address | mac destination-address | ethertype }

## 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

## Command Mode

- /exec/configure/config-fte-record

## 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

dscp-list	<dscp-enum>
no	(Optional) Negate a command or set its defaults
match	Classification criteria
dscp	DSCP in IP(v4) and IPv6 packets
dscp-enum	

## 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
dscp-list	List of DSCP values

## Command Mode

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

## match evpn route-type

[no] match evpn route-type { 1 | 2 | 2-mac-only | 2-mac-ip | 3 | 4 | 5 | 6 } +

Syntax Description

no	(Optional) Negate a command or set its defaults
match	Match values from routing table
evpn	Match BGP EVPN Routes
route-type	Match route type for evpn route
1	1

Command Mode

- /exec/configure/route-map

## 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
name	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
name	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
name	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
ipv4-pfl-name	Name of prefix-list
ipv4-pfl-name	Name of prefix-list
ipv4-pfl-name	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
iprp	IPv4 rendezvous prefix
rp-type	(Optional) Multicast rendezvous point type
iprptype	(Optional) IPv4 rendezvous point type
group	Multicast Group prefix
gprefix	IPv4 group prefix
group-range	Multicast Group address range
gaddr_start	First Group address
to	Range
gaddr_end	Last Group address
source	Multicast source address
ipsrc	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
ipv4-pfl-name	Name of prefix-list
ipv4-pfl-name	Name of prefix-list
ipv4-pfl-name	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 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
ipv4-pfl-name	Name of prefix-list
ipv4-pfl-name	Name of prefix-list
ipv4-pfl-name	Known prefix-list name

### Command Mode

- /exec/configure/route-map

# match ip source address

[no] match ip { source | destination } address

## Syntax Description

match	Specify a key field
ip	IP attributes
source	Source Address
destination	Destination Address
address	Address

## Command Mode

- /exec/configure/nfm-record

# match ipv4 protocol

[no] match ipv4 { protocol | tos }

## Syntax Description

match	Specify a key field
ipv4	IPv4 attributes
protocol	Protocol
tos	TOS

## Command Mode

- /exec/configure/config-fte-record



## 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/config-fte-record

## 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 ipv4 transport destination

[no] match ipv4 transport { destination-port | source-port }

### Syntax Description

match	Specify a key field
ipv4	IPv4 attributes
transport	Transport layer fields
destination-port	Transport destination port
source-port	Transport source port

### Command Mode

- /exec/configure/config-fte-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

```
[no] match ipv6 { { { source | destination } address } | { flow-label } }
```

## Syntax Description

match	Specify a key field
ipv6	IPv6 attributes
source	Source Address
destination	Destination Address
address	Address
flow-label	Flow label

## Command Mode

- /exec/configure/config-fte-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
name	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
ipv6-pfl-name	Name of prefix-list
ipv6-pfl-name	Name of prefix-list
ipv6-pfl-name	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
ipv6rptype	(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
ipv6-pfl-name	Name of prefix-list
ipv6-pfl-name	Name of prefix-list
ipv6-pfl-name	Known prefix-list name

## Command Mode

- /exec/configure/route-map

# match ipv6 protocol

[no] match ipv6 { protocol | tos }

## Syntax Description

match	Specify a key field
ipv6	IPv6 attributes
protocol	Protocol
tos	TOS

## Command Mode

- /exec/configure/config-fte-record

## 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
ipv6-pfl-name	Name of prefix-list
ipv6-pfl-name	Name of prefix-list
ipv6-pfl-name	Known prefix-list name

### Command Mode

- /exec/configure/route-map

## match ipv6 transport destination

[no] match ipv6 transport { destination-port | source-port }

### Syntax Description

match	Specify a key field
ipv6	IPv6 attributes
transport	Transport layer fields
destination-port	Transport destination port
source-port	Transport source port

### Command Mode

- /exec/configure/config-fte-record

# match mac-list

```
match mac-list [ dest ] <maclist-name> + | no match mac-list [ dest ] { <maclist-name> | <maclist-name> }  
+
```

## Syntax Description

no	Negate a command or set its defaults
match	Match values from routing table
mac-list	Match entries of mac-lists
dest	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
maclist-name	Name of mac-list
maclist-name	Name of mac-list
maclist-name	Known mac-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
plus-minus	(Optional) +/-
measure	Metric value
deviation	(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
area	area id

Command Mode

- /exec/configure/route-map

## 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
exp_value	(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
qos-group-list	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
qos-group-list	

### 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
qos-group-list	

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
qos-group-list	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
opt_match_redirect	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
src_prot	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
tagid	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

## 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)
maxbackoff-val	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)
maxbackoff-val	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
maximum-number	Set maximum number of non self-generated LSAs
threshold	(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
ignore-time-minutes	(Optional) ignore-time in minutes
ignore-count	(Optional) Set count on how many times adjacencies can be suppressed
ignore-count-number	(Optional) ignore-count
reset-time	(Optional) Set number of minutes after which ignore-count is reset to zero
reset-time-minutes	(Optional) reset-time in minutes

## Command Mode

- /exec/configure/router-ospf3 /exec/configure/router-ospf3/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
maximum-number	Set maximum number of non self-generated LSAs
threshold	(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
ignore-time-minutes	(Optional) ignore-time in minutes
ignore-count	(Optional) Set count on how many times adjacencies can be suppressed
ignore-count-number	(Optional) ignore-count
reset-time	(Optional) Set number of minutes after which ignore-count is reset to zero
reset-time-minutes	(Optional) reset-time in minutes

### Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/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
lifetime	Maximum LSP lifetime in seconds

## Command Mode

- /exec/configure/l2mp-isis/l2mp-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
lifetime	Maximum LSP lifetime in seconds

### Command Mode

- /exec/configure/router-isis/router-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
lifetime	Maximum LSP lifetime in seconds

## Command Mode

- /exec/configure/otv-isis/otv-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
max-metric-extlsa	(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
timeout	(Optional) Wait period in seconds after startup
wait-for	(Optional) Wait for an event to advertise normal metric
bgp	(Optional) BGP Convergence
as	(Optional) ASN of BGP to wait for
summary-lsa	(Optional) Summary LSAs
max-metric-sumlsa	(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
max-metric-extlsa	(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
timeout	(Optional) Wait period in seconds after startup
wait-for	(Optional) Wait for an event to advertise normal metric
bgp	(Optional) BGP Convergence
as	(Optional) ASN of BGP to wait for
inter-area-prefix-lsa	(Optional) Inter-area-prefix LSAs
max-metric-sumlsa	(Optional) Max metric value for summary LSAs

### Command Mode

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

## max-ports

[no] [ vmware ] max-ports

Syntax Description

no	Negate a command or set its defaults
vmware	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
max-ports	Max ports on which this profile can be inherited

Command Mode

- /exec/configure/port-profile

# max-ports

[ vmware ] max-ports <i0>

## Syntax Description

vmware	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
max-ports	Max ports on which this profile can be inherited
i0	Enter the max-number of ports

## 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
as-limit	Number of ASes in the AS-PATH attribute

## Command Mode

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

# 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
max-paths	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

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
max-paths	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	Set maximum paths per destination
max-paths	Maximum paths per destination

## Command Mode

- /exec/configure/router-isis/router-isis-af-ipv4

# 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
num-paths	Number of paths

## Command Mode

- /exec/configure/router-igrp/router-igrp-vrf-common /exec/configure/router-igrp/router-igrp-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
max-paths	Maximum paths per destination

## Command Mode

- /exec/configure/router-ospf

## 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
mpath-count	Number of parallel paths

### Command Mode

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

# 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
max-paths	Maximum paths per destination

## Command Mode

- /exec/configure/l2mp-isis/l2mp-isis-vrf-common /exec/configure/l2mp-isis/l2mp-isis-l2-topo

## 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
mpath-count	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-paths mixed

maximum-paths mixed <mpath-count> | no maximum-paths mixed [ <mpath-count> ]

### Syntax Description

no	Negate a command or set its defaults
maximum-paths	Forward packets over multipath paths
mixed	Configure multipath for local and remote paths
mpath-count	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-ipv4 /exec/configure/router-bgp/router-bgp-af-ipv6  
/exec/configure/router-bgp/router-bgp-af-l2vpn-evpn

# 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
limit	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
limit	Max. prefix limit
percent	(Optional) Threshold percentage at which to generate a warning
restart	(Optional) Restart bgp connection after limit is exceeded
restart-time	(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
limit	Max. prefix limit
percent	(Optional) Threshold percentage at which to generate a warning
restart	(Optional) Restart bgp connection after limit is exceeded
restart-time	(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 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
limit	Maximum number of routes allowed
warnlevel	(Optional) Threshold value (%) at which to generate a warning msg
reinstall	(Optional) Reinstall previous rejected route due to over maximum route limit
threshold	(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
maddr1	Multicast IP Prefix
maddr2	(Optional) Multicast IP Prefix

### Command Mode

- /exec/configure/if-nve/vni

# 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
prefix	List of group range prefixes
threshold	(Optional) Data MDT switching threshold
immediate-switch	(Optional) Move to data mdt immediately if remote receiver exists
value	(Optional) Threshold in kilobits per sec
route-map	(Optional) Specify policy for creating Data MDTs
policy-name	(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 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
mdt-default	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
mtu-value	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
interval	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
interval	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
interface	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

# media

media <vlanshowinfo-media-type> | no media

Syntax Description

no	Negate a command or set its defaults
media	Media type of the VLAN
vlanshowinfo-media-type	Select media type

Command Mode

- /exec/configure/vlan

# medium

medium <medium-type> | no medium <medium-type>

## Syntax Description

no	Negate a command or set its defaults
medium	Configure Interface medium mode
medium-type	

## 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/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 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 /exec/configure/if-ethernet-all

## 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

# 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 /exec/configure/if-ethernet-all

## member vlan

{ member vlan <vlan-range> } | { no member vlan [ <vlan-range> ] }

### Syntax Description

no	Negate a command or set its defaults
member	Set fabricpath topology VLAN membership
vlan	Configure VLANs for Fabricpath Topology
vlan-range	VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19

### Command Mode

- /exec/configure/fp-topology



# member vni

{ member vni <vni-range> } | { no member vni [ <vni-range> ] }

## Syntax Description

no	Negate a command or set its defaults
member	Set fabricpath topology VNI membership
vni	Configure VNIs for L2MP Topology
vni-range	vni range, Example: 4096, 4099-5013, 5019

## Command Mode

- /exec/configure/fp-topology

## 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
vni-range	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
vni-range	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
vni-range	vni range, Example: 5000 or 5001-5008
mcast-group	NVE Multicast Group
maddr1	Multicast IP Prefix
maddr2	(Optional) Multicast IP Prefix

### Command Mode

- /exec/configure/if-nve

## 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)
keyid	Key ID
md5	Use MD5 algorithm
key	OSPF password (key)

### Command Mode

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

## 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)
keyid	Key ID
md5	Use MD5 algorithm
key	The OSPF password (key)

### Command Mode

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

# 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

```
{ [ no ] metric } | { metric <metric_num> }
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
metric	Specify the interface metric
metric_num	SR TE Metric

## Command Mode

- /exec/configure/sr/te/if



# metric

[no] metric

Syntax Description

no	(Optional) Negate a command or set its defaults
metric	Candidate path-option metric entry

Command Mode

- /exec/configure/sr/te/color/cndpaths/pref/dyn

# metric

[no] metric

Syntax Description

no	(Optional) Negate a command or set its defaults
metric	Candidate path-option metric entry

Command Mode

- /exec/configure/sr/te/pol/cndpaths/pref/dyn

# 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
hops	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
rib-scale	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
tos	Type Of Service (Only TOS 0 supported)
k1	K1
k2	K2
k3	K3
k4	K4
k5	K5
k6	(Optional) K6

## Command Mode

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

# mkdir

mkdir <uri0>

Syntax Description

mkdir	Create new directory
uri0	Directory name

Command Mode

- /exec



# mode

[no] mode <vmode>

Syntax Description

no	(Optional) Negate a command or set its defaults
mode	Operational mode of the VLAN
vmode	

Command Mode

- /exec/configure/vlan

# mode

[no] mode <mode-id>

Syntax Description

no	(Optional) Negate a command or set its defaults
mode	Hot-standby mode
mode-id	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
mode-id	Mode of node

Command Mode

- /exec/configure/plb-dg-node

## mode tap-aggregation

[no] mode tap-aggregation [ { vlan <vlan\_id> } ]

### 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
vlan	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
vlan_id	(Optional) Vlan ID

### Command Mode

- /exec/configure/if-switching

# module transceiver-frequency

[no] module <module> transceiver-frequency { <xcvr\_frequency> }

## Syntax Description

no	(Optional) Negate a command or set its defaults
module	Configure for module
module	Enter module number
transceiver-frequency	Configure X2 transceiver frequency type
xcvr_frequency	Enter transceiver frequency type

## 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
ip	
global	(Optional) Configure in default VDC across all VDCs

### Command Mode

- /exec/configure

# monitor input

[no] monitor <monitorname> input

Syntax Description

monitor	Specify the monitor to be applied
monitorname	Monitor name to be applied
input	Specify the direction

Command Mode

- /exec/configure/nfm-system

# monitor session

monitor session <session\_number> [ type local ]

## Syntax Description

monitor	Configure Ethernet SPAN sessions
session	Configure session preferences
session_number	
type	(Optional) Specify a session type
local	(Optional) Create a local session

## Command Mode

- /exec/configure



## monitor session shut

[no] monitor session { all | <session\_range> } [ shut ] | monitor session { all | <session\_range> } shut

### Syntax Description

no	Negate a command or set its defaults
monitor	Configure Ethernet SPAN sessions
session	Configure session preferences
all	All sessions
session_range	
shut	(Optional) Shut the selected session

### Command Mode

- /exec/configure

## monitor session type acl-capture

monitor session <session\_number> type acl-capture

### Syntax Description

monitor	Configure Ethernet SPAN sessions
session	Configure session preferences
session_number	
type	Specify a session type
acl-capture	Create an acl-capture session

### Command Mode

- /exec/configure

## monitor session type erspan-destination

monitor session <session\_number> type erspan-destination

### Syntax Description

monitor	Configure Ethernet SPAN sessions
session	Configure session preferences
session_number	
type	Specify a session type
erspan-destination	Create an erspan destination session

### Command Mode

- /exec/configure

## monitor session type erspan-source

monitor session <session\_number> type erspan-source

### Syntax Description

monitor	Configure Ethernet SPAN sessions
session	Configure session preferences
session_number	
type	Specify a session type
erspan-source	Create an erspan source session

### 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
uri0	Source file path
uri1	Destination file path

## Command Mode

- /exec

# mpls

[no] mpls

Syntax Description

no	(Optional) Negate a command or set its defaults
mpls	Enable Segment Routing MPLS

Command Mode

- /exec/configure/config-sr

# mpls access-list

[no] mpls access-list <name>

## Syntax Description

no	(Optional) Negate a command or set its defaults
mpls	MPLS access-list configuration commands
access-list	Configure access list
name	List name

## Command Mode

- /exec/configure



# 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 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
labels	(Optional) Number of labels

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
min-label	Minimum label value
max-label	Maximum label value
static	(Optional) Specify block of labels for static bindings
min-static-label	(Optional) Minimum static label value
max-static-label	(Optional) Maximum static label value

## Command Mode

- /exec/configure

## mpls load-sharing label-ip

[no] mpls load-sharing label-ip

Syntax Description

no	(Optional) Negate a command or set its defaults
mpls	Configure Load sharing for Portchannel and ECMP based on labels
load-sharing	Load sharing for Portchannel and ECMP based on labels
label-ip	Load sharing based on label and IP

Command Mode

- /exec/configure



## mpls load-sharing label-only

[no] mpls load-sharing label-only

Syntax Description

no	(Optional) Negate a command or set its defaults
mpls	Configure Load sharing for Portchannel and ECMP based on labels
load-sharing	Load sharing for Portchannel and ECMP based on labels
label-only	Load sharing based on label only

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 port access-group

[no] mpls port access-group <name> <inout>

### Syntax Description

no	(Optional) Negate a command or set its defaults
mpls	MPLS access-list configuration commands
port	Port policy
access-group	Specify access control for packets
name	List name
inout	Traffic direction

### Command Mode

- /exec/configure/if-ethernet-switch /exec/configure/if-eth-port-channel-switch

## 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
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
prefix	Destination prefix
mask	Destination prefix mask
prefix-mask	Destination prefix/mask
input	(Optional) Incoming (local) label
static-inlabel	Label Value
output	Outgoing (remote) label
next-hop	Destination next hop
static-outlabel	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 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

[no] mpls strip [ { mode dot1q } ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
mpls	MPLS information
strip	Stripping of MPLS headers
mode	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
dot1q	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

## 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	MPLS information
strip	Stripping of MPLS headers
label	Add a static label in database
value	20 bit value for label
all	Delete all static labels
interface	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
interface-name	(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)
level	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
num	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
area-id-ip	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
value	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
tunnel-num	(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
percentage	(Optional) Percentage of bandwidth
bw-kbps	(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 flooding thresholds up

```
mpls traffic-eng flooding thresholds { up <up_p> [ <up_p> [ <up_p> [ <up_p> [ <up_p> [ <up_p> [ <up_p>
[ <up_p> [ <up_p> [ <up_p> [ <up_p> [ <up_p> [ <up_p> [ <up_p> [ <up_p> [ <up_p> [ <up_p> [ <up_p> [ <up_p>
] ] | down <dn_p> [ <dn_p> [ <dn_p> [ <dn_p> [ <dn_p> [ <dn_p> [ <dn_p> [ <dn_p> [ <dn_p> [ <dn_p> [ <dn_p> [ <dn_p>
[ <dn_p> [ <dn_p> [ <dn_p> [ <dn_p> [ <dn_p> [ <dn_p> [ <dn_p> [ <dn_p> [ <dn_p> [ <dn_p> [ <dn_p> [ <dn_p>
] ] ] } | no mpls traffic-eng
flooding thresholds { up | down }
```

### Syntax Description

no	Negate a command or set its defaults
mpls	MPLS configuration commands
traffic-eng	Configure Traffic Engineering parameters
flooding	Set flooding parameters
thresholds	Set flooding thresholds
up	Set the thresholds for increased resource availability
up_p	increased bandwidth usage (percent)
down	Set the thresholds for decreased resource availability
dn_p	decreased bandwidth usage (percent)

### Command Mode

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



# **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
tunnel-num	(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	OSPF MPLS configuration commands
traffic-eng	OSPF MPLS Traffic Engineering commands
router-id	Router ID associated with TE
interface	Routable Interface

Command Mode

- /exec/configure/router-ospf

## 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)
interface	IS-IS interface

### Command Mode

- /exec/configure/router-isis

## 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

# mpls ttl-mode php uniform

[no] mpls ttl-mode php uniform

Syntax Description

no	(Optional) Negate a command or set its defaults
mpls	mpls

Command Mode

- /exec

## 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
mst-id	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
prio	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
mst-id	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
prio	bridge priority in increments of 4096

## Command Mode

- /exec/configure/spanning-tree/pseudo

# mtrace

```
mtrace <source> [ <receiver> ] [ <group> ] [ vrf <vrf-known-name> ]
```

## Syntax Description

mtrace	Trace
source	IP
receiver	(Optional) IP
group	(Optional) IP
vrf	(Optional) VRF
vrf-known-name	(Optional) Known VRF name

## Command Mode

- /exec

# mtu

[no] mtu <mtu>

Syntax Description

mtu	MTU
mtu	MTU port to be configured

Command Mode

- /exec/configure/config-ssx-exporter

# mtu1

[no] mtu1 <value>

Syntax Description

no	(Optional) Negate a command or set its defaults
mtu1	MTU for the CoS
value	MTU value

Command Mode

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

# mtu

mtu <mtu\_value> | no mtu

## Syntax Description

no	Negate a command or set its defaults
mtu	Set the MTU size for SPAN packets
mtu_value	

## Command Mode

- /exec/configure/monitor-local-src

# mtu

mtu <mtu\_value> | no mtu

## Syntax Description

no	Negate a command or set its defaults
mtu	Set the MTU size for ERSPAN packets
mtu_value	

## Command Mode

- /exec/configure/monitor-erspan-src

# mtu

mtu <mtu-val> | no mtu [ <mtu-val> ]

## Syntax Description

no	Negate a command or set its defaults
mtu	Configure MTU
mtu-val	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
value	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)
mtu_val	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 for the port
mtu_val	

## 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

# mtu

mtu <mtu\_val> | no mtu [ <mtu\_val> ]

## Syntax Description

no	Negate a command or set its defaults
mtu	Configure mtu for the port
mtu_val	Enter MTU

## Command Mode

- /exec/configure/if-mgmt-ether

# multi-topology

[no] multi-topology [ transition ]

Syntax Description

no	(Optional) Negate a command or set its defaults
multi-topology	Enable multitopology for IPV6
transition	(Optional) Configure multitopology transition mode

Command Mode

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

# multicast

[no] multicast <mode\_enum>

Syntax Description

no	(Optional) Negate a command or set its defaults
multicast	Enable multicast best-effort
mode_enum	

Command Mode

- /exec/configure/monitor-local-src /exec/configure/config-monitor  
/exec/configure/config-monitor-erspan-src

## 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
interface	

Command Mode

- /exec/configure/if-nve

# multisite ingress-replication

multisite ingress-replication [ optimized ] | no multisite ingress-replication

Syntax Description

no	Negate a command or set its defaults
multisite	multisite ingress replication
ingress-replication	Configure ingress replication
optimized	(Optional) Switch to optimized IR mode

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	Enable Name Lookup for OSPF Neighbors

Command Mode

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

# 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

name <vlan-name> | no name

Syntax Description

no	Negate a command or set its defaults
name	Ascii name of the VLAN
vlan-name	The ascii name for the VLAN

Command Mode

- /exec/configure/vlan

# name

name [ <name> ] | no name

## Syntax Description

no	Negate a command or set its defaults
name	Redundancy name string
name	(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
name-val	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

## nbm external-link

[no] nbm external-link

Syntax Description

no	(Optional) Negate a command or set its defaults
nbm	Non Blocking Multicast
external-link	link connected to external router. Configuring this will flap the interface

Command Mode

- /exec/configure/if-igp

# nbm flow-definition

[no] nbm flow-definition <group> [ <source> ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
nbm	Non Blocking Multicast
flow-definition	Define a multicast flow
group	Multicast Group Address
source	(Optional) Source IP address to use

## Command Mode

- /exec/configure

## nbm flow-definition

[no] nbm flow-definition <group> [ <source> ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
nbm	Non Blocking Multicast
flow-definition	Define a multicast flow
group	Multicast Group Address
source	(Optional) Source IP address to use

### Command Mode

- /exec/configure/nbm-vrf

# nbm flow-policy

[no] nbm flow-policy

Syntax Description

no	(Optional) Negate a command or set its defaults
nbm	Non Blocking Multicast
flow-policy	Flow Policy Characteristics

Command Mode

- /exec/configure

## nbm flow-policy

[no] nbm flow-policy

Syntax Description

no	(Optional) Negate a command or set its defaults
nbm	Non Blocking Multicast
flow-policy	Flow Policy Characteristics

Command Mode

- /exec/configure/nbm-vrf

## nbm flow asm range

[no] nbm flow asm range <group> +

### Syntax Description

no	(Optional) Negate a command or set its defaults
nbm	Non Blocking Multicast
flow	Flow Characteristics
asm	Any-Source Multicast (ASM) groups
range	Configure explicit group ranges
group	List of group range prefixes

### Command Mode

- /exec/configure/nbm-vrf

## nbm flow asm range

[no] nbm flow asm range <group> +

### Syntax Description

no	(Optional) Negate a command or set its defaults
nbm	Non Blocking Multicast
flow	Flow Characteristics
asm	Any-Source Multicast (ASM) groups
range	Configure explicit group ranges
group	List of group range prefixes

### Command Mode

- /exec/configure



## nbm flow bandwidth immediate-recovery

[no] nbm flow bandwidth immediate-recovery

Syntax Description

no	(Optional) Negate a command or set its defaults
nbm	Non Blocking Multicast
flow	Flow Characteristics
bandwidth	Bandwidth per flow
immediate-recovery	Free up used BW immediately on last OIF removal

Command Mode

- /exec/configure

## nbm flow bandwidth immediate-recovery

[no] nbm flow bandwidth immediate-recovery

Syntax Description

no	(Optional) Negate a command or set its defaults
nbm	Non Blocking Multicast
flow	Flow Characteristics
bandwidth	Bandwidth per flow
immediate-recovery	Free up used BW immediately on last OIF removal

Command Mode

- /exec/configure/nbm-vrf

## nbm flow bandwidth kbps mbps gbps

```
{ nbm flow bandwidth { <val_kbps> kbps | <val_mbps> mbps | <val_gbps> gbps } } | { no nbm flow bandwidth }
```

### Syntax Description

no	Negate a command or set its defaults
nbm	Non Blocking Multicast
flow	Flow Characteristics
bandwidth	Bandwidth per flow
val_kbps	Per Flow Bandwidth in Kbps
kbps	Bandwidth value in Kbps
val_mbps	Per Flow Bandwidth in Mbps
mbps	Bandwidth value in Mbps
val_gbps	Per Flow Bandwidth in Gbps
gbps	Bandwidth value in Gbps

### Command Mode

- /exec/configure

## nbm flow bandwidth kbps mbps gbps

```
{ nbm flow bandwidth { <val_kbps> kbps | <val_mbps> mbps | <val_gbps> gbps } } | { no nbm flow bandwidth }
```

### Syntax Description

no	Negate a command or set its defaults
nbm	Non Blocking Multicast
flow	Flow Characteristics
bandwidth	Bandwidth per flow
val_kbps	Per Flow Bandwidth in Kbps
kbps	Bandwidth value in Kbps
val_mbps	Per Flow Bandwidth in Mbps
mbps	Bandwidth value in Mbps
val_gbps	Per Flow Bandwidth in Gbps
gbps	Bandwidth value in Gbps

### Command Mode

- /exec/configure/nbm-vrf

# nbm flow dscp

{ nbm flow dscp <val\_dscp> } | { no nbm flow dscp }

## Syntax Description

no	Negate a command or set its defaults
nbm	Non Blocking Multicast
flow	Flow Characteristics
dscp	DSCP for the flow
val_dscp	Integer value

## Command Mode

- /exec/configure

## nbm flow dscp

```
{ nbm flow dscp <val_dscp> } | { no nbm flow dscp }
```

### Syntax Description

no	Negate a command or set its defaults
nbm	Non Blocking Multicast
flow	Flow Characteristics
dscp	DSCP for the flow
val_dscp	Integer value

### Command Mode

- /exec/configure/nbm-vrf

# nbm flow policer

[no] nbm flow policer

Syntax Description

no	(Optional) Negate a command or set its defaults
nbm	Non Blocking Multicast
flow	Flow Characteristics
policer	Flow rate limiter installed in hardware

Command Mode

- /exec/configure/nbm-vrf

# nbm flow policer

[no] nbm flow policer

Syntax Description

no	(Optional) Negate a command or set its defaults
nbm	Non Blocking Multicast
flow	Flow Characteristics
policer	Flow rate limiter installed in hardware

Command Mode

- /exec/configure



# nbm host-policy

[no] nbm host-policy

Syntax Description

no	(Optional) Negate a command or set its defaults
nbm	Non Blocking Multicast
host-policy	NBM SW Host Admission Policy

Command Mode

- /exec/configure/nbm-vrf

# nbm host-policy

[no] nbm host-policy

Syntax Description

no	(Optional) Negate a command or set its defaults
nbm	Non Blocking Multicast
host-policy	NBM SW Host Admission Policy

Command Mode

- /exec/configure

## nbm mode pim-active

nbm mode pim-active [ \_\_readonly\_\_ <output> ]

Syntax Description

nbm	Non Blocking Multicast
mode	Set pmn mode
pim-active	Bandwidth engine running in fabric
__readonly__	(Optional)
output	(Optional)

Command Mode

- /exec/configure /exec/configure/nbm-vrf

## nbm reserve unicast fabric bandwidth

nbm reserve unicast fabric bandwidth <percentage> | no nbm reserve unicast fabric bandwidth

Syntax Description

no	Negate a command or set its defaults
nbm	Non Blocking Multicast
reserve	reserve bandwidth
unicast	unicast
fabric	fabric
bandwidth	percentage of bandwidth for unicast flow
percentage	percentage value

Command Mode

- /exec/configure /exec/configure/nbm-vrf

# nbm vrf

[no] nbm vrf <vrf-name>

## Syntax Description

no	(Optional) Negate a command or set its defaults
nbm	Non Blocking Multicast
vrf	Display per-VRF information
vrf-name	VRF name

## Command Mode

- /exec/configure

## nbm vrf default

[no] nbm vrf default

Syntax Description

no	(Optional) Negate a command or set its defaults
nbm	Non Blocking Multicast
vrf	Display per-VRF information
default	Default VRF

Command Mode

- /exec/configure /exec/configure/nbm-vrf

# 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

## negotiate auto 25000

[no] negotiate auto 25000

Syntax Description

no	(Optional) Negate a command or set its defaults
negotiate	Configure link negotiation parameters
auto	Configure auto-negotiation
25000	Force auto-negotiate to only 25000 and change fec to auto

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
neighbor-id	IP address of the neighbor
remote-as	(Optional) Specify Autonomous System Number of the neighbor
asn	(Optional) Autonomous System Number

## Command Mode

- /exec/configure/router-bgp

# 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
vrf-name	(Optional) VPN Routing/Forwarding instance name
vrf-known-name	(Optional) Known VRF name
ipaddr	IP address for LDP neighbor
implicit-withdraw	Enable LDP Implicit Withdraw Label
labels	Configure label binding exchange controls
accept	Specify label bindings to accept
pfx-list	Name of prefix list
targeted	Establish targeted session

## Command Mode

- /exec/configure/ldp

# 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
neighbor-id	IP address of the neighbor
remote-as	(Optional) Specify Autonomous System Number of the neighbor
asn	(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
neighbor-prefix	IP prefix for neighbors
remote-as	(Optional) Specify Autonomous System Number of the neighbor
asn	(Optional) Autonomous System Number
route-map	(Optional) Route-map to match prefix peer AS number
rmap-name	(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
neighbor-prefix	IP prefix for neighbors
remote-as	(Optional) Specify Autonomous System Number of the neighbor
asn	(Optional) Autonomous System Number
route-map	(Optional) Route-map to match prefix peer AS number
rmap-name	(Optional) Route-map name

## Command Mode

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

## nemo config address port interval

[no] nemo config address <ip\_address> port <portnum> interval <interval-num>

### Syntax Description

no	(Optional) Negate a command or set its defaults
nemo	Nemo switch onboarding enabler
config	Configure Nemo for switch onboarding
address	IP address of the Nemo platform
ip_address	IP Address
port	Port number of the Nemo platform
portnum	Port number
interval	Config interval in millisecond
interval-num	Config interval in millisecond

### Command Mode

- /exec/configure

# net

[no] net <net>

## Syntax Description

no	(Optional) Negate a command or set its defaults
net	Configure Network Entity Title for IS-IS
net	NET in form of XX.XXXX. ... .XXXX[.00]

## Command Mode

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



# net

[no] net <net>

## Syntax Description

no	(Optional) Negate a command or set its defaults
net	Configure Network Entity Title for IS-IS
net	NET in form of XX.XXXX. ... .XXXX[.00]

## Command Mode

- /exec/configure/otv-isis

# 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
rmap-name	(Optional) Route-map name
summarize	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

## Command Mode

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

# 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
ip-addr	IP network to advertise
mask	Configure the mask of the IP prefix to advertise
ip-mask	Dotted 4-octet mask
ip-prefix	IP prefix in CIDR format
route-map	(Optional) Apply route-map to modify attributes
rmap-name	(Optional) Route-map name
summarize	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
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

## 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
ipaddr	Enter IP address (A.B.C.D)

### Command Mode

- /exec/configure/te/expl-path

# next-hop-self

[ no | default ] next-hop-self [ all ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
next-hop-self	Set our address as nexthop (non-reflected)
all	(Optional) Set our address as nexthop for all 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-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  
/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

## nexthop route-map

[no] nexthop route-map <rmap-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
nexthop	Nexthop tracking
route-map	Route map for valid nexthops
rmap-name	Route-map name

Command Mode

- /exec/configure/router-bgp/router-bgp-af /exec/configure/router-bgp/router-bgp-af-l2vpn-evpn  
/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 suppress-default-resolution

[no] nexthop suppress-default-resolution

Syntax Description

no	(Optional) Negate a command or set its defaults
nexthop	Nexthop resolution options
suppress-default-resolution	Prohibit use of default route for nexthop address resolution

Command Mode

- /exec/configure/router-bgp

## 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
noncriticaldelay	Delay value (milliseconds)
criticaldelay	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-vpn4 /exec/configure/router-bgp/router-bgp-af-vpn6 /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
value	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
id	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 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
profile-id	ngoam profile id

Command Mode

- /exec/configure

## ngoam xconnect hb-interval

{ ngoam xconnect hb-interval <ms> } | { no ngoam xconnect hb-interval [ <ms> ] }

### Syntax Description

no	Negate a command or set its defaults
ngoam	Configure ngoam
xconnect	Configure xconnect parameters
hb-interval	Configure xconnect heartbeat interval
ms	interval in ms, 3 failures triggers failure default is 190

### 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

```
{ [ <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

seqno	(Optional) Sequence number
no	Negate a command or set its defaults
permitdeny	Permit/deny
proto_igmp	Protocol
src_any	Any
src_addr	Source network address
src_wild	Source wildcard bits
src_prefix	Source network prefix
src_key_host	A single source host
src_host	Source address
src_key_addrgrp	Source address group
src_addrgrp_name	Address group name
dst_any	Any
dst_addr	Destination network address
dst_wild	Destination wildcard bits

dst_prefix	Destination network prefix
dst_key_host	A single destination host
dst_host	Destination address
dst_key_addrgrp	Destination address group
dst_addrgrp_name	Address group name
dscp	(Optional) Match packets with given dscp value
dscp_num	(Optional) Differentiated services codepoint value
dscp_str	(Optional) Differentiated services codepoint label
tos	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
tos_num	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
tos_str	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
precedence	(Optional) Match packets with given precedence value
prec_num	(Optional) Precedence value
prec_str	(Optional) Precedence label
fragments	(Optional) Check non-initial fragments
log	(Optional) Log matches against this entry
time-range	(Optional) Specify a time range
time_range_name	(Optional) Time range name
packet-length	(Optional) Match packets based on layer 3 packet length
plen_op	(Optional) Packet-length operator
plen_range	(Optional) Packet-length range
plen0	(Optional) Packet length
plen1	(Optional) Lower packet length
plen2	(Optional) Higher packet length
ttl	(Optional) Match Packets with a given TTL value
ttl_num	(Optional)
igmp_num	(Optional) IGMP message type
igmp_str	(Optional) IGMP type
capture	(Optional) Enable packet capture on this filter for session

session	(Optional) Session ID <1-48> for this session
session-id	(Optional) Session ID <1-48> for this session
action	(Optional) Action
actionid	(Optional) redirect: Ethernet1/1,port-channel1 set-erspan-dscp: <1-63> set-erspan-gre-proto: <1-65535>

## Command Mode

- /exec/configure/ipacl

## 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
seqno	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
seqno	Sequence number

Command Mode

- /exec/configure/macac1

# no

[no] <seqno>

## Syntax Description

no	Negate a command or set its defaults
seqno	Sequence number

## Command Mode

- /exec/configure/mplsac1

# no

[no] <seqno>

Syntax Description

no	Negate a command or set its defaults
seqno	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

seqno	(Optional) Sequence number
no	Negate a command or set its defaults
permitdeny	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
ethertypeid	Configure the ethertype value
vlanid	(Optional) VLAN number
intfid	(Optional) Interface index
intfname	(Optional) Interface name
vlanpriorityid	(Optional) Vlan Priority
ip	Any IP protocol
proto	A protocol number
ip_other_proto	ip_other_proto
src_any	Any
src_addr	Source network address
src_wild	Source wildcard bits
src_prefix	Source network prefix

src_key_host	A single source host
src_host	Source address
src_key_addrgrp	Source address group
src_addrgrp_name	Address group name
dst_any	Any
dst_addr	Destination network address
dst_wild	Destination wildcard bits
dst_prefix	Destination network prefix
dst_key_host	A single destination host
dst_host	Destination address
dst_key_addrgrp	Destination address group
dst_addrgrp_name	Address group name
dscp	(Optional) Match packets with given dscp value
dscp_num	(Optional) Differentiated services codepoint value
dscp_str	(Optional) Differentiated services codepoint label
tos	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
tos_num	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
tos_str	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
precedence	(Optional) Match packets with given precedence value
prec_num	(Optional) Precedence value
prec_str	(Optional) Precedence label
fragments	(Optional) Check non-initial fragments
log	(Optional) Log matches against this entry
time-range	(Optional) Specify a time range
time_range_name	(Optional) Time range name
packet-length	(Optional) Match packets based on layer 3 packet length
plen_op	(Optional) Packet-length operator
plen_range	(Optional) Packet-length range
plen0	(Optional) Packet length

plen1	(Optional) Lower packet length
plen2	(Optional) Higher packet length
ttl	(Optional) Match Packets with a given TTL value
ttl_num	(Optional)
capture	(Optional) Enable packet capture on this filter for session
session	(Optional) Session ID <1-48> for this session
session-id	(Optional) Session ID <1-48> for this session
udf	(Optional) User defined field match
udf_name	(Optional) UDF name
udf_val	(Optional) UDF value to match
udf_mask	(Optional) Mask to apply to UDF value
action	(Optional) Action
actionid	(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

seqno	(Optional) Sequence number
no	Negate a command or set its defaults
permitdeny	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
ethertypeid	Configure the ethertype value
vlanid	(Optional) VLAN number

intfid	(Optional) Interface index
intfname	(Optional) Interface name
vlanpriorityid	(Optional) Vlan Priority
proto_tcp	Protocol
src_any	Any
src_addr	Source network address
src_wild	Source wildcard bits
src_prefix	Source network prefix
src_key_host	A single source host
src_host	Source address
src_key_addrgrp	Source address group
src_addrgrp_name	Address group name
src_port_op	(Optional) Port operator
src_port_range	(Optional) Port range
src_port0	(Optional) Port number
src_port0_str	(Optional) TCP port
src_port1	(Optional) Port number
src_port1_str	(Optional) TCP port
src_port2	(Optional) Port number
src_port2_str	(Optional) TCP port
src_portgroup	(Optional) src port group
src_port_group	(Optional) Port group name
dst_any	Any
dst_addr	Destination network address
dst_wild	Destination wildcard bits
dst_prefix	Destination network prefix
dst_key_host	A single destination host
dst_host	Destination address
dst_key_addrgrp	Destination address group

dst_addrgrp_name	Address group name
dst_port_op	(Optional) Port operator
dst_port_range	(Optional) Port range
dst_port0	(Optional) Port number
dst_port0_str	(Optional) TCP port
dst_port1	(Optional) Port number
dst_port1_str	(Optional) TCP port
dst_port2	(Optional) Port number
dst_port2_str	(Optional) TCP port
dst_portgroup	(Optional) dst port group
dst_port_group	(Optional) Port group name
dscp	(Optional) Match packets with given dscp value
dscp_num	(Optional) Differentiated services codepoint value
dscp_str	(Optional) Differentiated services codepoint label
tos	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
tos_num	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
tos_str	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
precedence	(Optional) Match packets with given precedence value
prec_num	(Optional) Precedence value
prec_str	(Optional) Precedence label
fragments	(Optional) Check non-initial fragments
log	(Optional) Log matches against this entry
time-range	(Optional) Specify a time range
time_range_name	(Optional) Time range name
packet-length	(Optional) Match packets based on layer 3 packet length
plen_op	(Optional) Packet-length operator
plen_range	(Optional) Packet-length range
plen0	(Optional) Packet length
plen1	(Optional) Lower packet length

plen2	(Optional) Higher packet length
ttl	(Optional) Match Packets with a given TTL value
ttl_num	(Optional)
tcp-option-length	(Optional) Specify TCP Options size
tcp_opt_len	(Optional) TCP option length (multiples of 4 bytes)
tcp-flags-mask	(Optional) Specify TCP Flags
tcp_flags_mask	(Optional) TCP flags mask
http-method	(Optional) Match packets based on http-method
opt_num	(Optional) http_option value
opt_str	(Optional) http_option_param
packet-length	(Optional) Match packets based on layer 3 packet length
plen_op	(Optional) Packet-length operator
plen_range	(Optional) Packet-length range
plen0	(Optional) Packet length
plen1	(Optional) Lower packet length
plen2	(Optional) Higher packet length
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
udf	(Optional) User defined field match
udf_name	(Optional) UDF name
udf_val	(Optional) UDF value to match
udf_mask	(Optional) Mask to apply to UDF value
capture	(Optional) Enable packet capture on this filter for session
session	(Optional) Session ID <1-48> for this session

session-id	(Optional) Session ID <1-48> for this session
action	(Optional) Action
actionid	(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> } + } ] # 2308 ../feature/acl_mgr/cli/aclmgr.cmd [ capture
session <session-id> ] { [ <action> <actionid> ] } + [ log ]

```

## Syntax Description

seqno	(Optional) Sequence number
no	Negate a command or set its defaults
permitdeny	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
ethertypeid	Configure the ethertype value
vlanid	(Optional) VLAN number
intfid	(Optional) Interface index
intfname	(Optional) Interface name

vlanpriorityid	(Optional) Vlan Priority
proto_udp	Protocol
src_any	Any
src_addr	Source network address
src_wild	Source wildcard bits
src_prefix	Source network prefix
src_key_host	A single source host
src_host	Source address
src_key_addrgrp	Source address group
src_addrgrp_name	Address group name
src_port_op	(Optional) Port operator
src_port_range	(Optional) Port range
src_port0	(Optional) Port number
src_port0_str	(Optional) UDP port
src_port1	(Optional) Port number
src_port1_str	(Optional) UDP port
src_port2	(Optional) Port number
src_port2_str	(Optional) UDP port
src_portgroup	(Optional) src port group
src_port_group	(Optional) Port group name
dst_any	Any
dst_addr	Destination network address
dst_wild	Destination wildcard bits
dst_prefix	Destination network prefix
dst_key_host	A single destination host
dst_host	Destination address
dst_key_addrgrp	Destination address group
dst_addrgrp_name	Address group name
dst_port_op	(Optional) Port operator

dst_port_range	(Optional) Port range
dst_port0	(Optional) Port number
dst_port0_str	(Optional) UDP port
dst_port1	(Optional) Port number
dst_port1_str	(Optional) UDP port
dst_port2	(Optional) Port number
dst_port2_str	(Optional) UDP port
dst_portgroup	(Optional) dst port group
dst_port_group	(Optional) Port group name
dscp	(Optional) Match packets with given dscp value
dscp_num	(Optional) Differentiated services codepoint value
dscp_str	(Optional) Differentiated services codepoint label
tos	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
tos_num	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
tos_str	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
precedence	(Optional) Match packets with given precedence value
prec_num	(Optional) Precedence value
prec_str	(Optional) Precedence label
fragments	(Optional) Check non-initial fragments
log	(Optional) Log matches against this entry
time-range	(Optional) Specify a time range
time_range_name	(Optional) Time range name
packet-length	(Optional) Match packets based on layer 3 packet length
plen_op	(Optional) Packet-length operator
plen_range	(Optional) Packet-length range
plen0	(Optional) Packet length
plen1	(Optional) Lower packet length
plen2	(Optional) Higher packet length
ttl	(Optional) Match Packets with a given TTL value

ttl_num	(Optional)
nve	(Optional) VNI ID <0-16777215>
vni	(Optional) VNI ID <0-16777215>
vni-id	(Optional) VNI ID <0-16777215>
udf	(Optional) User defined field match
udf_name	(Optional) UDF name
udf_val	(Optional) UDF value to match
udf_mask	(Optional) Mask to apply to UDF value
capture	(Optional) Enable packet capture on this filter for session
session	(Optional) Session ID <1-48> for this session
session-id	(Optional) Session ID <1-48> for this session
action	(Optional) Action
actionid	(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

seqno	(Optional) Sequence number
no	Negate a command or set its defaults
permitdeny	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
ethertypeid	Configure the ethertype value
vlanid	(Optional) VLAN number
intfid	(Optional) Interface index
intfname	(Optional) Interface name
vlanpriorityid	(Optional) Vlan Priority
proto_icmp	Protocol
src_any	Any

src_addr	Source network address
src_wild	Source wildcard bits
src_prefix	Source network prefix
src_key_host	A single source host
src_host	Source address
src_key_addrgrp	Source address group
src_addrgrp_name	Address group name
dst_any	Any
dst_addr	Destination network address
dst_wild	Destination wildcard bits
dst_prefix	Destination network prefix
dst_key_host	A single destination host
dst_host	Destination address
dst_key_addrgrp	Destination address group
dst_addrgrp_name	Address group name
dscp	(Optional) Match packets with given dscp value
dscp_num	(Optional) Differentiated services codepoint value
dscp_str	(Optional) Differentiated services codepoint label
tos	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
tos_num	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
tos_str	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
precedence	(Optional) Match packets with given precedence value
prec_num	(Optional) Precedence value
prec_str	(Optional) Precedence label
fragments	(Optional) Check non-initial fragments
log	(Optional) Log matches against this entry
time-range	(Optional) Specify a time range
time_range_name	(Optional) Time range name
packet-length	(Optional) Match packets based on layer 3 packet length

plen_op	(Optional) Packet-length operator
plen_range	(Optional) Packet-length range
plen0	(Optional) Packet length
plen1	(Optional) Lower packet length
plen2	(Optional) Higher packet length
tfl	(Optional) Match Packets with a given TTL value
tfl_num	(Optional)
icmp_type	(Optional) ICMP message type
icmp_code	(Optional) ICMP message code
icmp_str	(Optional) ICMP label
capture	(Optional) Enable packet capture on this filter for session
session	(Optional) Session ID <1-48> for this session
session-id	(Optional) Session ID <1-48> for this session
action	(Optional) Action
actionid	(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> { { 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> ] + [ { udf { <udf_name> <udf_val> <udf_mask> } + } ] [
capture session <session-id> ] [ { <actionv6> <actionidv6> } ] | { udf { <udf_name> <udf_val> <udf_mask>
} + } }
```

## Syntax Description

seqno	(Optional) Sequence number
no	Negate a command or set its defaults
permitdeny	Permit/deny
ipv6	Any IPV6 protocol
proto	A protocol number
ipv6_other_proto	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
udf_name	(Optional) UDF name
udf_val	(Optional) UDF value to match
udf_mask	(Optional) Mask to apply to UDF value
vlanid	(Optional) VLAN number
intfid	(Optional) Interface index
intfname	(Optional) Interface name
vlanpriorityid	(Optional) Vlan Priority
src_any	Any
src_key_host	A single source host
src_key_addrgrp	Source address group
src_addrgrp_name	Address group name



dst_any	Any
dst_key_host	A single destination host
dst_key_addrgrp	Destination address group
dst_addrgrp_name	Address group name
dscp	(Optional) Match packets with given dscp value
dscp_num	(Optional) Differentiated services codepoint value
dscp_str	(Optional) Differentiated services codepoint label
flow-label	(Optional) Flow label
flow_num	(Optional) Flow label value
fragments	(Optional) Check non-initial fragments
log	(Optional) Log matches against this entry
time-range	(Optional) Specify a time range
time_range_name	(Optional) Time range name
packet-length	(Optional) Match packets based on layer 3 packet length
plen_op	(Optional) Packet-length operator
plen_range	(Optional) Packet-length range
plen0	(Optional) Packet length
plen1	(Optional) Lower packet length
plen2	(Optional) Higher packet length
capture	(Optional) Enable packet capture on this filter for session
session	(Optional) Session ID <1-48> for this session
session-id	(Optional) Session ID <1-48> for this session
actionv6	(Optional) ActionV6
actionidv6	(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_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>
} ] ] + [ { 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>
} } [ { { 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

seqno	(Optional) Sequence number
no	Negate a command or set its defaults
permitdeny	Permit/deny
proto_tcp	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
udf_name	(Optional) UDF name
udf_val	(Optional) UDF value to match
udf_mask	(Optional) Mask to apply to UDF value
vlanid	(Optional) VLAN number
intfid	(Optional) Interface index
intfname	(Optional) Interface name
vlanpriorityid	(Optional) Vlan Priority
src_any	Any
src_key_host	A single source host

src_key_addrgrp	Source address group
src_addrgrp_name	Address group name
src_port_op	(Optional) Port operator
src_port_range	(Optional) Port range
src_port0	(Optional) Port number
src_port0_str	(Optional) TCP port
src_port1	(Optional) Port number
src_port1_str	(Optional) TCP port
src_port2	(Optional) Port number
src_port2_str	(Optional) TCP port
src_portgroup	(Optional) src port group
src_port_group	(Optional) Port group name
dst_any	Any
dst_key_host	A single destination host
dst_key_addrgrp	Destination address group
dst_addrgrp_name	Address group name
dst_port_op	(Optional) Port operator
dst_port_range	(Optional) Port range
dst_port0	(Optional) Port number
dst_port0_str	(Optional) TCP port
dst_port1	(Optional) Port number
dst_port1_str	(Optional) TCP port
dst_port2	(Optional) Port number
dst_port2_str	(Optional) TCP port
dst_portgroup	(Optional) dst port group
dst_port_group	(Optional) Port group name
dscp	(Optional) Match packets with given dscp value
dscp_num	(Optional) Differentiated services codepoint value
dscp_str	(Optional) Differentiated services codepoint label

flow-label	(Optional) Flow label
flow_num	(Optional) Flow label value
fragments	(Optional) Check non-initial fragments
log	(Optional) Log matches against this entry
time-range	(Optional) Specify a time range
time_range_name	(Optional) Time range name
packet-length	(Optional) Match packets based on layer 3 packet length
plen_op	(Optional) Packet-length operator
plen_range	(Optional) Packet-length range
plen0	(Optional) Packet length
plen1	(Optional) Lower packet length
plen2	(Optional) Higher packet length
tcp-flags-mask	Specify TCP Flags
tcp_flags_mask	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
session-id	(Optional) Session ID <1-48> for this session
actionv6	(Optional) ActionV6
actionidv6	(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_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> } ] ] + [ { 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> } } [ { { 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

seqno	(Optional) Sequence number
no	Negate a command or set its defaults
permitdeny	Permit/deny
proto_udp	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
udf_name	(Optional) UDF name
udf_val	(Optional) UDF value to match
udf_mask	(Optional) Mask to apply to UDF value
vlanid	(Optional) VLAN number
intfid	(Optional) Interface index
intfname	(Optional) Interface name
vlanpriorityid	(Optional) Vlan Priority
src_any	Any
src_key_host	A single source host

src_key_addrgrp	Source address group
src_addrgrp_name	Address group name
src_port_op	(Optional) Port operator
src_port_range	(Optional) Port range
src_port0	(Optional) Port number
src_port0_str	(Optional) UDP port
src_port1	(Optional) Port number
src_port1_str	(Optional) UDP port
src_port2	(Optional) Port number
src_port2_str	(Optional) UDP port
src_portgroup	(Optional) src port group
src_port_group	(Optional) Port group name
dst_any	Any
dst_key_host	A single destination host
dst_key_addrgrp	Destination address group
dst_addrgrp_name	Address group name
dst_port_op	(Optional) Port operator
dst_port_range	(Optional) Port range
dst_port0	(Optional) Port number
dst_port0_str	(Optional) UDP port
dst_port1	(Optional) Port number
dst_port1_str	(Optional) UDP port
dst_port2	(Optional) Port number
dst_port2_str	(Optional) UDP port
dst_portgroup	(Optional) dst port group
dst_port_group	(Optional) Port group name
dscp	(Optional) Match packets with given dscp value
dscp_num	(Optional) Differentiated services codepoint value
dscp_str	(Optional) Differentiated services codepoint label

flow-label	(Optional) Flow label
flow_num	(Optional) Flow label value
fragments	(Optional) Check non-initial fragments
log	(Optional) Log matches against this entry
time-range	(Optional) Specify a time range
time_range_name	(Optional) Time range name
packet-length	(Optional) Match packets based on layer 3 packet length
plen_op	(Optional) Packet-length operator
plen_range	(Optional) Packet-length range
plen0	(Optional) Packet length
plen1	(Optional) Lower packet length
plen2	(Optional) Higher packet length
capture	(Optional) Enable packet capture on this filter for session
session	(Optional) Session ID <1-48> for this session
session-id	(Optional) Session ID <1-48> for this session
nve	(Optional) VNI ID <0-16777215>
vni	(Optional) VNI ID <0-16777215>
vni-id	(Optional) VNI ID <0-16777215>
actionv6	(Optional) ActionV6
actionidv6	(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

seqno	(Optional) Sequence number
no	Negate a command or set its defaults
permitdeny	Permit/deny
proto_sctp	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
udf_name	(Optional) UDF name
udf_val	(Optional) UDF value to match
udf_mask	(Optional) Mask to apply to UDF value
vlanid	(Optional) VLAN number
intfid	(Optional) Interface index
intfname	(Optional) Interface name
vlanpriorityid	(Optional) Vlan Priority
src_any	Any
src_key_host	A single source host



src_key_addrgrp	Source address group
src_addrgrp_name	Address group name
src_port_op	(Optional) Port operator
src_port_range	(Optional) Port range
src_port0	(Optional) Port number
src_port0_str	(Optional) SCTP port
src_port1	(Optional) Port number
src_port1_str	(Optional) SCTP port
src_port2	(Optional) Port number
src_port2_str	(Optional) SCTP port
src_portgroup	(Optional) src port group
src_port_group	(Optional) Port group name
dst_any	Any
dst_key_host	A single destination host
dst_key_addrgrp	Destination address group
dst_addrgrp_name	Address group name
dst_port_op	(Optional) Port operator
dst_port_range	(Optional) Port range
dst_port0	(Optional) Port number
dst_port0_str	(Optional) SCTP port
dst_port1	(Optional) Port number
dst_port1_str	(Optional) SCTP port
dst_port2	(Optional) Port number
dst_port2_str	(Optional) SCTP port
dst_portgroup	(Optional) dst port group
dst_port_group	(Optional) Port group name
dscp	(Optional) Match packets with given dscp value
dscp_num	(Optional) Differentiated services codepoint value
dscp_str	(Optional) Differentiated services codepoint label

flow-label	(Optional) Flow label
flow_num	(Optional) Flow label value
fragments	(Optional) Check non-initial fragments
log	(Optional) Log matches against this entry
time-range	(Optional) Specify a time range
time_range_name	(Optional) Time range name
packet-length	(Optional) Match packets based on layer 3 packet length
plen_op	(Optional) Packet-length operator
plen_range	(Optional) Packet-length range
plen0	(Optional) Packet length
plen1	(Optional) Lower packet length
plen2	(Optional) Higher packet length
capture	(Optional) Enable packet capture on this filter for session
session	(Optional) Session ID <1-48> for this session
session-id	(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

seqno	(Optional) Sequence number
no	Negate a command or set its defaults
permitdeny	Permit/deny
proto_icmpv6	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
udf_name	(Optional) UDF name
udf_val	(Optional) UDF value to match
udf_mask	(Optional) Mask to apply to UDF value
vlanid	(Optional) VLAN number
intfid	(Optional) Interface index
intfname	(Optional) Interface name
vlanpriorityid	(Optional) Vlan Priority
src_any	Any
src_key_host	A single source host
src_key_addrgrp	Source address group

src_addrgrp_name	Address group name
dst_any	Any
dst_key_host	A single destination host
dst_key_addrgrp	Destination address group
dst_addrgrp_name	Address group name
dscp	(Optional) Match packets with given dscp value
dscp_num	(Optional) Differentiated services codepoint value
dscp_str	(Optional) Differentiated services codepoint label
flow-label	(Optional) Flow label
flow_num	(Optional) Flow label value
fragments	(Optional) Check non-initial fragments
log	(Optional) Log matches against this entry
time-range	(Optional) Specify a time range
time_range_name	(Optional) Time range name
packet-length	(Optional) Match packets based on layer 3 packet length
plen_op	(Optional) Packet-length operator
plen_range	(Optional) Packet-length range
plen0	(Optional) Packet length
plen1	(Optional) Lower packet length
plen2	(Optional) Higher packet length
icmpv6_type	(Optional) ICMPv6 message type
icmpv6_code	(Optional) ICMPv6 message code
icmpv6_str	(Optional) ICMPv6 label
capture	(Optional) Enable packet capture on this filter for session
session	(Optional) Session ID <1-48> for this session
session-id	(Optional) Session ID <1-48> for this session
actionv6	(Optional) ActionV6
actionidv6	(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 } { <addr> <wild> | <prefix> | host <hostaddr> }

## Syntax Description

seqno	(Optional) Sequence number
no	Negate a command or set its defaults
addr	A.B.C.D Network address of object-group member
wild	A.B.C.D wildcard
prefix	A.B.C.D/nn Network prefix of the object-group member
host	Host address of the object-group member
hostaddr	A.B.C.D Host address

## Command Mode

- /exec/configure/ipgroup

# no

{ [ <seqno> ] | no } { <addr> <wild> | <prefix> | host <hostaddr> }

## Syntax Description

seqno	(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

seqno	(Optional) Sequence number
no	Negate a command or set its defaults
_port_op	Port operator
_port_range	Port range
port0_num	Port number
port1_num	Port number
port2_num	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> ] } + [ { udf {
<udf_name> <udf_val> <udf_mask> } + } ]
```

## Syntax Description

seqno	(Optional) Sequence number
no	Negate a command or set its defaults
permitdeny	Permit/deny
src_any	Any
src_addr	Source MAC address
src_wild	Source wildcard bits
dst_any	Any
dst_addr	Destination MAC address
dst_wild	Destination wildcard bits
mac_proto	(Optional) MAC protocol number
mac_proto_str	(Optional) MAC protocol name
vlan	(Optional) VLAN number
cos	(Optional) CoS value
vlan	(Optional) VLAN number
cos	(Optional) CoS value
time-range	(Optional) Specify a time range
time_range_name	(Optional) Time range name
capture	(Optional) Enable packet capture on this filter for session
session	(Optional) Session ID <1-48> for this session
session-id	(Optional) Session ID <1-48> for this session
macaction	(Optional) MAC ACL Action
macactionid	(Optional) redirect: Ethernet1/1,port-channel1
udf	(Optional) User defined field match

udf_name	(Optional) UDF name
udf_val	(Optional) UDF value to match
udf_mask	(Optional) Mask to apply to UDF value

## Command Mode

- /exec/configure/macac1

# no

no

Syntax Description

no	Negate a command or set its defaults
----	--------------------------------------

Command Mode

- /exec/configure/vsan-db

# 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
ip-addr	(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 ip

[no] node { ip <ip-addr> | IPv6 <ip-addrv6> }

## Syntax Description

no	(Optional) Negate a command or set its defaults
node	ITD node
ip	ITD node IPv4 address
ip-addr	ITD node IP4 prefix in format i.i.i.i
IPv6	ITD node IPv6 address

## Command Mode

- /exec/configure/itd-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	ITD node
ip	ITD node IPv4 address
ip-addr	ITD node IP4 prefix in format i.i.i.i
IPv6	ITD node IPv6 address

## Command Mode

- /exec/configure/itd-device-group

## npv auto-load-balance disruptive

[no] npv auto-load-balance disruptive

Syntax Description

no	(Optional) Negate a command or set its defaults
npv	Config commands for FC N_port Virtualizer
auto-load-balance	configure auto load balancing among preferred external links
disruptive	enable disruptive auto load balancing among external links

Command Mode

- /exec/configure

## npv traffic-map server-interface external-interface

[no] npv traffic-map server-interface <ifl> external-interface <interface>

Syntax Description

no	(Optional) Negate a command or set its defaults
npv	Config commands for FC N_port Virtualizer
traffic-map	Configure NPV traffic engineering
server-interface	Configure server interface based traffic engineering
ifl	
external-interface	Configure preferred external interface(s)
interface	

Command Mode

- /exec/configure



## 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
acl-name	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
delay	(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
number	authentication key number (range 1-65535)
md5	use md5 authentication scheme
md5	MD5 string
0	(Optional) clear text
7	(Optional) encrypted

### 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
stratum-no	(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
host0	Hostname/IP address of the NTP Peer
prefer	(Optional) Preferred Server
key	(Optional) Keyid to be used while communicating to this server
keyid	(Optional) Value of keyid 1-65535
use-vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
minpoll	(Optional) Minimum interval to poll a peer
minpoll	(Optional) Poll interval in secs to a power of 2 [default 4]
maxpoll	(Optional) Maximum interval to poll a peer
maxpoll	(Optional) Poll interval in secs to a power of 2 [default 6]

### 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
host0	Hostname/IP address of the NTP Server
prefer	(Optional) Preferred Server
key	(Optional) Keyid to be used while communicating to this server
keyid	(Optional) Value of keyid 1-65535
use-vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
minpoll	(Optional) Minimum interval to poll a server
minpoll	(Optional) Poll interval in secs to a power of 2 [default 4]
maxpoll	(Optional) Maximum interval to poll a server
maxpoll	(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
interface	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
ip-addr	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
number	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 interface remap-replication-servers

nve interface <nve-if> remap-replication-servers

Syntax Description

nve	Configure NVE information
interface	Interface
nve-if	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
nve-if	NVE interface
replication-server	Configure a replication server
rep-addr	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> [ password <passphrase> ] } } | { httpsert { certfile <uri1> } } | { enable } } }
```

## Syntax Description

nxapi	Configure nxapi
certificate	Https certificate configuration
httpskey	Https private key
httpsert	Https certificate
keyfile	Https key file
certfile	Https certificate file
password	(Optional) Https encrypted key passphrase
enable	Enable the current certificate
uri0	File containing https private key for the user
passphrase	(Optional) Https encrypted private key passphrase
uri1	File containing https certificate

## 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
http	Http configuration
https	Https configuration
port	Port number
s0	Port number. Please do not use well-known protocol ports

### Command Mode

- /exec/configure

# nxapi ssl ciphers weak

{ [ no ] nxapi ssl ciphers weak }

## Syntax Description

no	(Optional) Negate a command or set its defaults
nxapi	Configure nxapi
ssl	Configure ssl parameters
ciphers	Configure allowed ciphers for ssl
weak	Allow weak ciphers

## Command Mode

- /exec/configure

## nxapi ssl protocols

```
{ nxapi ssl protocols <prot_string> } | { no nxapi ssl protocols }
```

### Syntax Description

no	Negate a command or set its defaults
nxapi	Configure nxapi
ssl	Configure ssl parameters
protocols	Configure allowed ssl protocols
prot_string	String of supported protocols, Ex: TLSv1 TLSv1.1 TLSv1.2

### 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
vrf_name	name of the vrf

### Command Mode

- /exec/configure

## nxsdk profile

[no] nxsdk profile <nxsdk-profile-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
nxsdk	NXOS SDK
profile	service profile
nxsdk-profile-name	NxSDK service profile name

Command Mode

- /exec/configure

## nxsdk remote port

[no] nxsdk remote port <port> [ namespace { <vrf-name> | <vrf-known-name> } ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
nxsdk	NXOS SDK
remote	To run NX-SDK service as a remote service
port	Port to accept remote NX-SDK connections
port	Port
namespace	(Optional) Namespace to run the remote server on. Default is Vrf: Default
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name

### Command Mode

- /exec/configure

## nxsdk service-name

[no] nxsdk service-name <nxsdk-service-name> [ profile <nxsdk-profile-name> ]

### Syntax Description

nxsdk	NXOS SDK
service-name	Complete path and name of file to execute
nxsdk-service-name	Service name
profile	(Optional) Service profile
nxsdk-profile-name	(Optional) Name of the profile

### Command Mode

- /exec/configure



## O Commands

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- [object-group ip address](#), on page 2853
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- [object-group ipv6 address](#), on page 2855
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# oam-channel

{ oam-channel <val> } | { no oam-channel }

## Syntax Description

oam-channel	oam-channel used
val	2 - nvo3 tissa

## Command Mode

- /exec/configure/configngoamprofile

# 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
name	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)
name	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
name	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
obj-grp-name	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
obj-grp-name	object-group name

### Command Mode

- /exec/configure

# object-track

[no] object-track <object-number> [ decrement <value> ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
object-track	Associates track object to VRRP group
object-number	Set the object number to the group
decrement	(Optional) Decrements vrrp group priority when tracked object goes down
value	(Optional) Set the value to decrement from priority

## Command Mode

- /exec/configure/if-eth-any/vrrpv3

# 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
ifname	interface name

Command Mode

- /exec/configure/openflow/switch

## on-demand color

[no] on-demand color <color>

Syntax Description

no	(Optional) Negate a command or set its defaults
on-demand	Configure on-demand color
color	Color
color	Color

Command Mode

- /exec/configure/sr/te

# 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
time	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
time	Time in seconds

### Command Mode

- /exec/configure/nfm-exporter-v9

## 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
client-name	Client name registered to ORIB process
mac	VLAN-ID/MAC Address tuple in vvvv-aaaa.bbbb.cccc format
nh	(Optional) Next-hop IPv4 address
if-name	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
spi_id	SPI Value
md5	Use the MD5 algorithm
akey	Authentication Key
sha1	Use the SHA1 algorithm
akey	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
cost	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
interval	(seconds)

## 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
interval	(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
instance-id	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
prio	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
interval	(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
delay	(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
state	

Command Mode

- /exec/configure/config-ra-guard

# otv-isis

otv-isis <tag>

## Syntax Description

otv-isis	Intermediate System to Intermediate System (IS-IS)
tag	Routing process tag

## Command Mode

- /exec/configure

# 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
encap-type	Configure encapsulation type
tunnel-control-frames	(Optional) tunnel protocol
layer2-prot	(Optional) configure specific protocol

Command Mode

- /exec/configure/if-nve

# 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
ow-vlan-id	

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
text	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
packetsize	Size

## Command Mode

- /exec/configure/configngoamconnectcheck

## 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
plistname	Enter the name of the parameter list
cross-check	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

### 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 <parity-value>

Syntax Description

no	(Optional) Negate a command or set its defaults
parity	Set terminal parity
parity-value	terminal parity value

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 <level>

Syntax Description

no	(Optional) Negate a command or set its defaults
passive-interface	Suppress IS-IS PDU
default	Undo a command
level	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

# 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

# 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
vrf-name	(Optional) VPN Routing/Forwarding instance name
vrf-known-name	(Optional) Known VRF name
required	Password is required for the peer
req-for	(Optional) Prefix list specifying control on LDP peers
req-pfx-list	(Optional) Prefix list for LDP peers
fallback	Specifies a fallback password will follow
option	LDP password option
seq-num	Sequence number of the LDP password option
opt-for	Prefix list specifying control on LDP peers
opt-pfx-list	Prefix list for LDP peers
key-chain	Specifies a key-chain name will follow
name	Key-chain name

## Command Mode

- /exec/configure/ldp

# 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
password-string	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

{ [ no ] password <passwd> }

## Syntax Description

password	password
passwd	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
pref	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
id-num	Number of ip explicit path
name	Specify an IP explicit path by name
name	Name of ip explicit path
attributes	(Optional) Specify an LSP attribute list
attr-name	(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
kbps	(Optional) bandwidth requirement in kbps
lockdown	(Optional) not a candidate for reoptimization
kbps	(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

[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 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 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 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
path-num	Path identifier
next-hop	Nexthop
next-hop	Destination IPv4 next hop
out-label-stack	Series of output labels
static-outlabel	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> | <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 <dstip6> <srcip6> ] [ 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
numeric10	Peer vtep ip address
unknown	Peer vtep ip is unknown, will be derived from payload
intfid	(Optional) Name of the interface for ngoam pathtrace on which dot1q is configured
payload	(Optional) Enter customer payload
mac-addr	(Optional) Mac
dstmac	(Optional) Destination mac address
smac	(Optional) Source mac address
dot1q	(Optional) Encapsulation dot1q/bd
dot1q-id	(Optional) Encapsulation dot1q/bd on which the mac is learnt
ip	ip address
dstip	(Optional) Destination ipv4 address
srcip	(Optional) source ipv4 address
ipv6	(Optional) ipv6 address
port	(Optional) L4 port info
sport	(Optional) Source port
dport	(Optional) Destination port
proto	(Optional) Protocol
proto-id	(Optional) IANA Protocol id
src-intf	(Optional) Interface on which the host with src ip of the payload is connected
src_if	(Optional) Interface

payload-end	(Optional) End payload info input
profile	(Optional) NGOAM profile to use
pid	(Optional) NGOAM profile id
mac	Mac
dmac	Destination mac address
dot1qid	Encapsulation dot1q/bd on which the mac is learnt
dot1qid1	(Optional) Encapsulation dot1q/bd on which the mac is learnt
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
copy-to	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
copy-to-ip	(Optional) IPv4 addr to send responses to
ext-id	(Optional) Identifier passed from caller
ext_id	(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 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
priority-group-number	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

# pcc

[no] pcc

Syntax Description

no	(Optional) Negate a command or set its defaults
pcc	PCC related configuration

Command Mode

- /exec/configure/sr/te

## pce-address ipv4

[no] pce-address ipv4 <ip-address> [ precedence <precedence> ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
pce-address	Configure the address of the PCE
ipv4	Configure v4 address of the PCE
precedence	(Optional) Precedence of the PCE
ip-address	PCE address
precedence	(Optional) Path-option preference

### Command Mode

- /exec/configure/sr/te/pcc

# pcep

[no] pcep

Syntax Description

no	(Optional) Negate a command or set its defaults
pcep	Dynamic path needs to be computed externally via PCEP

Command Mode

- /exec/configure/sr/te/color/cndpaths/pref/dyn

# pcep

[no] pcep

Syntax Description

no	(Optional) Negate a command or set its defaults
pcep	Dynamic path needs to be computed externally via PCEP

Command Mode

- /exec/configure/sr/te/pol/cndpaths/pref/dyn



## 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
vlan-list	(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
addr	Remote Peer IP Address

Command Mode

- /exec/configure/if-nve/vni/ingr-rep

## peer-keepalive destination

```
peer-keepalive destination [ <dst-ip> | <dst-ipv6> ] [ [ source [ <src-ip> | <src-ipv6> ] | 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> | <src-ipv6> ] | 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> | <src-ipv6> ] | 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
dst-ip	(Optional) IPv4 address (A.B.C.D) of destination
source	(Optional) source interface for hello
src-ip	(Optional) IPv4 address (A.B.C.D) of source
udp-port	(Optional) enter UDP port number used for hello
udp-port-num	(Optional) udp port number for hellos
vrf	(Optional) vrf to be used for hello messages
vrf-name	(Optional) vrf to be used for hellos
vrf-known-name	(Optional) Known VRF name
interval	(Optional) enter interval in milleseconds
interval-ms	(Optional) Enter interval in milleseconds
timeout	(Optional) enter timeout in seconds
time-out	(Optional) enter timeout in seconds
precedence	(Optional) Precedence
prec-vlaue	(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(IPV4)/Traffic Class(IPV6)
tos-value	(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 (IPv4)/Traffic Class Octet(IPv6)
tos-byte-value	(Optional) Enter 8-bit TOS value
hold-timeout	(Optional) hold timeout to ignore stale peer alive messages
hold-time-out	(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 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
service-name	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
svc-name	peer smart channel name
num	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
i0	(Optional) pid of process to record events
s0	(Optional) id of perf record session to stop
s1	(Optional) id to use for perf record session
s2	(Optional) id of perf dataset to create an archive
s3	(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
i0	Time period in days (default is 7 days)
timeofday	Configure the timeofday for periodic inventory in HH:MM format
s0	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

seqno	(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
stime	Starting time
to	Ending day and time
etime	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

seqno	(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
eday	Day of the week
stime	Starting time
to	Ending day and time
etime	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
if0	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
vlan-mrange	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
vrf-name	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
vsan-mrange	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
uri_local	Personality backup local destination
uri_remote	Personality backup remote destination
password	(Optional) Password for SCP username
vrf-known-name	(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
uri	Personality file
user-name	(Optional) The username for downloads
user	(Optional) The username
password	(Optional) The password for downloads
password	(Optional) The password
hostname	(Optional) The hostname for downloads
hostname	(Optional) The hostname
vrf	(Optional) The VRF for downloads
vrf_name	(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

# pim

[no] pim

Syntax Description

no	(Optional) Negate a command or set its defaults
pim	Policies for a Remote Receiver

Command Mode

- /exec/configure/nbm-vrf/nbm-host-policy

# pim

[no] pim

Syntax Description

no	(Optional) Negate a command or set its defaults
pim	Policies for a Remote Receiver

Command Mode

- /exec/configure/nbm-host-policy

# 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
count	(Optional) Number
packet-size	(Optional) Packet
packetsize	(Optional) Size
source-interface	(Optional) Select source interface
src-intf	(Optional) Specify interface
interval	(Optional) Wait
interval	(Optional) Interval
numeric	(Optional) IP address of remote system
numeric1	(Optional) IP
alpha	(Optional) Enter
multicast	(Optional) Multicast
group	(Optional) Multicast
interface	(Optional) Interface
interface	(Optional) Interface
loopback	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
source	(Optional) Source
df-bit	(Optional) Enable
timeout	(Optional) Specify
timeout	(Optional) Timeout
vrf	(Optional) Display per-VRF information



vrf-name	(Optional) VRF name
vrf-known-name	(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
count	(Optional) Number
unlimited	(Optional) unlimited
packet-size	(Optional) Packet
packetsize	(Optional) Size
source-interface	(Optional) Select source interface
src-intf	(Optional) Specify interface
interval	(Optional) Wait
interval	(Optional) Interval
hostname	Enter
multicast	Multicast
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
source	(Optional) Source
timeout	(Optional) Specify
timeout	(Optional) Timeout

## Command Mode

- /exec

## ping mpls

```
ping mpls { nil-fec { { labels <comma-separated-labels> } } output { ointerface <tx-interface> } nexthop
<nexthop-ip-addr> } | { policy { { name <srte-policy-name> } | { endpoint <srte-policy-endpoint> color
<srte-policy-color> } } [ { 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-trlv } } } + | { force-explicit-null } | { dsmap [ hashkey { none | { hash-ipv4 { bitmap <bitmap-size> } }
} ] } | { flags { fec } } ] +
```

### Syntax Description

ping	need
mpls	Test
nil-fec	Target
labels	A
comma-separated-labels	A
repeat	(Optional) Repeat
count	(Optional) Repeat
size	(Optional) Packet
size	(Optional) Datagram
sweep	(Optional) Sweep
min-size	(Optional)
max-size	(Optional)
increment	(Optional) Sweep
timeout	(Optional) Timeout
seconds	(Optional) Timeout
interval	(Optional) Send
milliseconds	(Optional) Send
destination	(Optional) Destination
addr-start	(Optional) Destination
addr-end	(Optional) Destination

addr-incr-mask	(Optional) Destination
addr-incr	(Optional) Destination
source	(Optional) Source
addr	(Optional) Source
exp	(Optional) EXP
exp-value	(Optional) EXP
pad	(Optional) Pad
pattern	(Optional) Pad
ttl	(Optional) Time
ttl	(Optional) TTL
verbose	(Optional) verbose
reply	(Optional) Reply
mode	(Optional) Reply
reply-mode-ipv4	(Optional) Send
router-alert	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
control-channel	(Optional) Send
no-reply	(Optional) Send
dscp	(Optional) DSCP
dscp-bits	(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
tx-interface	Echo
nexthop	Next
nexthop-ip-addr	Next
dsmap	(Optional) Request
hashkey	(Optional) Downstream
none	(Optional) Hash
hash-ipv4	(Optional) IPv4
bitmap	(Optional) Hash
bitmap-size	(Optional) Multipath
flags	(Optional) Flag
fec	(Optional) Request
policy	Derive
name	Specify
color	Specify

endpoint	Specify
srte-policy-name	The
srte-policy-color	The
srte-policy-endpoint	The

## 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

{	<count>
ping	Test
nve	network virtualization edge
numeric10	Ipv4 address of remote host / VTEP
unknown	Peer vtep ip is unknown, Applicable only for channel Nv03
dot1qid	Encapsulation dot1q/bd on which the mac is learnt
intfid	(Optional) Name of the interface for ngoam ping on which dot1q is configured
payload	(Optional) Enter customer payload
port	(Optional) L4 port info
sport	(Optional) Source port
dport	(Optional) Destination port
proto	(Optional) Protocol
proto-id	(Optional) IANA Protocol id
src-intf	(Optional) Interface on which the host with src ip of the payload is connected
src_if	(Optional) Interface
payload-end	(Optional) End of payload info
profile	(Optional) NGOAM profile to use
pid	(Optional) NGOAM profile id
mac	Mac
mac-addr	(Optional) Mac
ip	ip address
dstip	(Optional) Destination ipv4 address

srcip	(Optional) source ipv4 address
ipv6	(Optional) ipv6 address
dmac	Destination mac address
dstmac	(Optional) Destination mac address
smac	(Optional) Source mac address
dot1q	(Optional) Encapsulation dot1q/bd
dot1q-id	(Optional) Encapsulation dot1q/bd on which the mac is learnt
dot1qid1	(Optional) Encapsulation dot1q/bd on which the mac is learnt
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
source	(Optional) Source
numeric1	(Optional) IP

## Command Mode

- /exec



## ping sr-mpls

```
ping sr-mpls { <sr-ipv4-prefix> fec-type { { igp isis } | { bgp } | { generic } } } [ { 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
sr-mpls	Test
sr-ipv4-prefix	IP
fec-type	Type
igp	Kind
isis	ISIS
bgp	BGP
generic	Generic
repeat	(Optional) Repeat
count	(Optional) Repeat
size	(Optional) Packet
size	(Optional) Datagram
sweep	(Optional) Sweep
min-size	(Optional)
max-size	(Optional)
increment	(Optional) Sweep
timeout	(Optional) Timeout
seconds	(Optional) Timeout
interval	(Optional) Send
milliseconds	(Optional) Send
destination	(Optional) Destination

addr-start	(Optional) Destination
addr-end	(Optional) Destination
addr-incr-mask	(Optional) Destination
addr-incr	(Optional) Destination
source	(Optional) Source
addr	(Optional) Source
exp	(Optional) EXP
exp-value	(Optional) EXP
pad	(Optional) Pad
pattern	(Optional) Pad
ttl	(Optional) Time
ttl	(Optional) TTL
verbose	(Optional) verbose
reply	(Optional) Reply
mode	(Optional) Reply
reply-mode-ipv4	(Optional) Send
router-alert	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
control-channel	(Optional) Send
no-reply	(Optional) Send
dscp	(Optional) DSCP
dscp-bits	(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	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
dsmap	(Optional) Request
hashkey	(Optional) Downstream
none	(Optional) Hash
hash-ipv4	(Optional) IPv4
bitmap	(Optional) Hash
bitmap-size	(Optional) Multipath
flags	(Optional) Flag
fec	(Optional) Request

## Command Mode

- /exec

## 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
rate	value in kbit per sec
module	(Optional) Specify a module number
module	(Optional) Specify a module number

### Command Mode

- /exec/configure

# plb

[no] plb [ <svc-name> ] [ service <service-name> ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
plb	Configure PLB
svc-name	(Optional) Specify PLB service name [Deprecated]
service	(Optional) Configure PLB service [Preferred]
service-name	(Optional) Specify PLB service name

## Command Mode

- /exec/configure

# plb analytics

[no] plb analytics <service-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
plb	Configure PLB
analytics	Enable PLB service analytics
service-name	PLB service name

Command Mode

- /exec/configure

# plb device-group

[no] plb device-group <group-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
plb	Configure PLB
device-group	Configure PLB device group
group-name	Specify device-group name

Command Mode

- /exec/configure

## pnp startup-vlan

[no] pnp startup-vlan <vlan>

Syntax Description

no	(Optional) disable pnp startup vlan configured. default value is vlan 1
pnp	plug and play
startup-vlan	PnP startup-vlan
vlan	PNP vlan id. Default vlan is 1

Command Mode

- /exec/configure



## 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
opt_kbps_mbps_gbps_pps_cir	(Optional) Units
percent	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
pir	(Optional) Specify peak information rate
opt_kbps_mbps_gbps_pps_pir	(Optional) Units
percent1	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
be	(Optional) Specify extended burst
opt_kbytes_mbytes_gbytes_be	(Optional) Units
bc	(Optional) Specify committed burst
opt_kbytes_mbytes_gbytes_bc	(Optional) Units
conform	(Optional) Specify a conform action
opt_drop_transmit_conform	(Optional) Set the action
set-cos-transmit	(Optional) Set conform action cos val
set-cos-val	(Optional) 802.1Q Class of Service value
set-dscp-transmit	(Optional) Set conform action dscp val
set-dscp-val	(Optional) DSCP value
opt_set_dscp	(Optional)
set-prec-transmit	(Optional) Set conform action precedence val
set-prec-val	(Optional) IP Precedence value
opt_set_prec	(Optional)

exceed	(Optional) Specify a exceed action
opt_drop_transmit_exceed	(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
opt_drop_transmit_violate	(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 ] | 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
cir-perc	Percentage
pir-perc	(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
prec-val	(Optional) Precedence value
prec-val1	(Optional) Precedence value
prec-val2	(Optional) Precedence value
prec-enum	(Optional)
prec-enum1	(Optional)
prec-enum2	(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
dscp-val	(Optional) DSCP value
dscp-val1	(Optional) DSCP value
dscp-val2	(Optional) DSCP value
dscp-enum	(Optional)
dscp-enum1	(Optional)
dscp-enum2	(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
cos-val	(Optional) new cos value
cos-val1	(Optional) new cos value
cos-val2	(Optional) new cos value
set-discard-class-transmit	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
set-discard-class-transmit1	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
set-discard-class-transmit2	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
disc-class-val	(Optional) new discard-class value
disc-class-val1	(Optional) new discard-class value
disc-class-val2	(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
qos-grp-val	(Optional) QoS group value
qos-grp-val1	(Optional) QoS group value
qos-grp-val2	(Optional) QoS group value
set-mpls-exp-imposition-transmit	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
set-mpls-exp-imposition-transmit1	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
set-mpls-exp-imposition-transmit2	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
exp-value-imp	(Optional) MPLS imposition value

exp-value-imp1	(Optional) MPLS imposition value
exp-value-imp2	(Optional) MPLS imposition value
set-mps-exp-topmost-transmit	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
set-mps-exp-topmost-transmit1	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
set-mps-exp-topmost-transmit2	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
exp-value-top	(Optional) MPLS topmost value
exp-value-top1	(Optional) MPLS topmost value
exp-value-top2	(Optional) MPLS topmost value
set	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
exc-frn-field	(Optional)
exc-to-field	(Optional)
vio-frn-field	(Optional)
vio-to-field	(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
policer-name	Enter aggregate-policer name

#### Command Mode

- /exec/configure/policy-map/class

# policer

[no] policer

Syntax Description

no	(Optional) Negate a command or set its defaults
policer	Flow rate limiter installed in hardware

Command Mode

- /exec/configure/nbm-vrf/nbm-flow-policy/attr

# policer

[no] policer

Syntax Description

no	(Optional) Negate a command or set its defaults
policer	Flow rate limiter installed in hardware

Command Mode

- /exec/configure/nbm-flow-policy/attr



# 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
pmap-name-qos	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
pmap-name	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
pmap-name-nq	Policy-map name

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
pmap-name-que	Policy-map name (alphanumeric)

### Command Mode

- /exec/configure

# policy

[no] policy { <cfg-pol-name> | <unknown-pol-name> }

## Syntax Description

no	(Optional) Negate a command or set its defaults
policy	NBM Flow policy
cfg-pol-name	Policy name
unknown-pol-name	Policy name

## Command Mode

- /exec/configure/nbm-flow-policy

# 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
device-id	peer's device-id
static	configure static policy
sgt	SGT tag for pkts from this device
sgt	sgt value
trusted	(Optional) specify trust state of the link

## Command Mode

- /exec/configure/cts-manual

# policy

[no] policy <pol-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
policy	Identifying name for policy with max 128 characters
pol-name	Configure Policy name

Command Mode

- /exec/configure/sr/te

# policy

[no] policy { <cfg-pol-name> | <unknown-pol-name> }

## Syntax Description

no	(Optional) Negate a command or set its defaults
policy	NBM Flow policy
cfg-pol-name	Policy name
unknown-pol-name	Policy name

## Command Mode

- /exec/configure/nbm-vrf/nbm-flow-policy



# pop

pop [ <name> ]

Syntax Description

pop	pop mode from stack or restore from name
name	(Optional) name

Command Mode

- /global

## port-channel bfd destination

port-channel bfd destination <dest-ip> | no port-channel bfd destination [ <dest-ip> ]

### Syntax Description

no	Negate a command or set its defaults
port-channel	Configure port channel parameters
bfd	BFD parameters
destination	Configure IP address of BFD peer
dest-ip	BFD peer IPv4 address

### Command Mode

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

## port-channel bfd start

port-channel bfd start <start-timer-value> | no port-channel bfd start [ <start-timer-value> ]

### Syntax Description

no	Negate a command or set its defaults
port-channel	Configure port channel parameters
bfd	BFD parameters
start	Start timer timeout value
start-timer-value	BFD start timer timeout value in seconds (default off)

### Command Mode

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

## port-channel bfd track-member-link

port-channel bfd track-member-link | no port-channel bfd track-member-link

Syntax Description

no	Negate a command or set its defaults
port-channel	Configure port channel parameters
bfd	Enable BFD
track-member-link	Enable per-member-link BFD on the port-channel interface

Command Mode

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

# port-channel fast-convergence

port-channel fast-convergence | no port-channel fast-convergence

Syntax Description

no	Negate a command or set its defaults
port-channel	Configure port channel parameters
fast-convergence	Enable/Disable port-channel fast convergence

Command Mode

- /exec/configure

## port-channel hash-distribution

port-channel hash-distribution <type> | no port-channel hash-distribution [ <type> ]

### Syntax Description

no	Negate a command or set its defaults
port-channel	Configure port channel parameters
hash-distribution	Configure port-channel hash-distribution
type	adaptive/fixed (default adaptive)

### Command Mode

- /exec/configure/

# 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
bndl_hash	bundle hash
bndl_sel	bundle select
rotate	(Optional) offset the hash-input
po-lb-rotate-range	(Optional) offset the hash-input
concatenation	(Optional) enable/disable concatenation
module	(Optional) Specify a module number
module	(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
algorithm	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

```
port-channel load-balance <bndl_hash> <bndl_sel> <encap> [ rotate <po-lb-rotate-range> ] [ symmetric ] |
no port-channel load-balance [ <bndl_hash> <bndl_sel> <encap> [ rotate <po-lb-rotate-range> ] [ symmetric
]]
```

### Syntax Description

no	Negate a command or set its defaults
port-channel	Configure port channel parameters
load-balance	Configure port-channel load balance
bndl_hash	bundle hash
bndl_sel	bundle select
encap	encapsulation
rotate	(Optional) offset the hash-input
po-lb-rotate-range	(Optional) offset the hash-input
symmetric	(Optional) symmetric load balancing

### Command Mode

- /exec/configure

## port-channel load-defer

port-channel load-defer <load-defer-timeout> | no port-channel load-defer [ <load-defer-timeout> ]

### Syntax Description

no	Negate a command or set its defaults
port-channel	Configure port channel parameters
load-defer	Load defer time interval
load-defer-timeout	Load defer time interval in seconds (default 120 seconds)

### Command Mode

- /exec/configure/

## port-channel port hash-distribution

port-channel port hash-distribution <type> | no port-channel port hash-distribution [ <type> ]

### Syntax Description

no	Negate a command or set its defaults
port-channel	Configure port channel parameters
port	Configure port-channel port hash-distribution
hash-distribution	Configure port-channel port hash-distribution
type	adaptive/fixed (default adaptive)

### Command Mode

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

## port-channel port load-defer

port-channel port load-defer | no port-channel port load-defer

Syntax Description

no	Negate a command or set its defaults
port-channel	Configure port channel parameters
port	Configure port-channel load-defer for member ports
load-defer	Configure port-channel load-defer

Command Mode

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

# port-channel scale-fanout

port-channel scale-fanout | no port-channel scale-fanout

Syntax Description

no	Negate a command or set its defaults
port-channel	Configure port channel parameters
scale-fanout	Enable/disable port-channel scale-fanout when ports span more than 16 ASIC units

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	smart channel port group
name	smart channel port group name

## Command Mode

- /exec/configure/smarte



# port-license

[no] port-license [ acquire ]

Syntax Description

no	(Optional) Negate a command or set its defaults
port-license	Enable port activation license
acquire	(Optional) Acquire port activation license

Command Mode

- /exec/configure/if-fc /exec/configure/if-bay /exec/configure/if-ext

# port-license

[no] port-license [ acquire ]

Syntax Description

no	(Optional) Negate a command or set its defaults
port-license	Enable port activation license
acquire	(Optional) Acquire port activation license

Command Mode

- /exec/configure/if-fc /exec/configure/if-bay /exec/configure/if-ext

# 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
profilename	Enter the name of the profile
s0	Enter the name of the profile
type	(Optional) configure type of the profile
typeval	(Optional)

## Command Mode

- /exec/configure

## port-type

[no] port-type <type>

Syntax Description

no	(Optional) Negate a command or set its defaults
port-type	Identifies if port is fabric-facing or not
type	Facing port-type

Command Mode

- /exec/configure/if-eth-non-member /exec/configure/if-port-channel /exec/configure/if-ethernet-all /exec/configure/if-ethernet-p2p /exec/configure/if-ether-sub-p2p

# port

```
{ port <sport> <dport> }
```

## Syntax Description

port	L4 port info
sport	Source port
dport	Destination port

## Command Mode

- /exec/configure/configngoamccpayload

# port

{ no port | port <value> }

## Syntax Description

no	
port	Port on which to listen
value	Max port value

## Command Mode

- /exec/configure/config-twamp-srvr

# port

{ { [ no ] port <i0> } | { no port } }

## Syntax Description

no	(Optional) Negate a command or set its defaults
port	Specify port on which local radius server listens
i0	Radius server port (default is 1700)

## Command Mode

- /exec/configure/locsvr-da-radius

# 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
port-control-name	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
port	port number

## Command Mode

- /exec/configure/configngoamprofileflow

## port type ethernet

[no] port <port-range> type { ethernet | fc }

### Syntax Description

no	(Optional) Negate a command or set its defaults
port	Configure a port
port-range	Enter a port range
type	Configure a port type
ethernet	Ethernet Port
fc	FC Port

### Command Mode

- /exec/configure/slot

# postcard-telemetry exporter

[no] postcard-telemetry exporter <exportername>

Syntax Description

postcard-telemetry	Enable/Disable postcard telemetry configuration
exporter	Define a events Exporter
exportername	Name of event Exporter

Command Mode

- /exec/configure/config-postcard

# postcard-telemetry flow-profile

[no] postcard-telemetry flow-profile

Syntax Description

postcard-telemetry	Enable/Disable postcard telemetry configuration
flow-profile	Define a POSTCARD flow-profile

Command Mode

- /exec/configure/config-postcard

# postcard-telemetry monitor

[no] postcard-telemetry monitor <monitorname>

Syntax Description

postcard-telemetry	Enable/Disable postcard telemetry configuration
monitor	Define a POSTCARD Monitor
monitorname	Name of POSTCARD Monitor

Command Mode

- /exec/configure/config-postcard

## postcard-telemetry queue-profile

[no] postcard-telemetry queue-profile [ <queue\_profilename> | queue-profile-default ]

Syntax Description

postcard-telemetry	Enable/Disable postcard telemetry configuration
queue-profile	Define a POSTCARD queue_profile
queue_profilename	(Optional) Name of POSTCARD queue_profile
queue-profile-default	(Optional) Queue Profile Default Configuration

Command Mode

- /exec/configure/config-postcard

# postcard-telemetry system monitor

[no] postcard-telemetry system monitor <monitorname>

Syntax Description

system	global config
postcard-telemetry	postcard global settings
monitor	postcard Monitor to be applied
monitorname	postcard Monitor to be applied

Command Mode

- /exec/configure/config-postcard

# postcard-telemetry watchlist ip

[no] postcard-telemetry watchlist ip <watchlistname>

Syntax Description

postcard-telemetry	Enable/Disable postcard telemetry configuration
watchlist	Define a POSTCARD watchlist
ip	Configure POSTCARD IP watchlist
watchlistname	Name of POSTCARD watchlist

Command Mode

- /exec/configure/config-postcard



# 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
port-mode-never	configure POE port mode
port-mode	configure POE port mode
max	(Optional) Configure the max power per interface
wattage	(Optional) milli-watts

## Command Mode

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

## power inline default\_consumption

{ power inline default\_consumption <wattage> } | { no power inline default\_consumption }

### Syntax Description

no	Negate a command or set its defaults
power	Power over Ethernet
default_consumption	POE port default consumption
wattage	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
police-action	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
port-priority	configure POE port priority

### Command Mode

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

## 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

## precision milliseconds

```
{ { no | default } precision | precision { milliseconds | microseconds } }
```

### Syntax Description

no	
precision	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

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

[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 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
secs	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  
 delay sync minimum preempt delay minimum reload preempt delay reload minimum preempt delay minimum preempt delay reload preempt delay sync preempt

# 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> | preempt delay sync <sync-delay> | preempt | no preempt [ { 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
min-delay	Number of seconds for minimum delay
reload	Delay after reload
rel-delay	Number of seconds for reload delay
sync	Wait for IP redundancy clients
sync-delay	Number of seconds for sync delay

## Command Mode

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

- /exec/configure/if-eth-any/hsrp\_ipv4 /exec/configure/if-eth-any/hsrp\_ipv6

# preference

[no] preference <pref>

Syntax Description

no	(Optional) Negate a command or set its defaults
preference	Policy path-option preference entry
pref	Path-option preference

Command Mode

- /exec/configure/sr/te/pol/cndpaths

# preference

[no] preference <pref>

Syntax Description

no	(Optional) Negate a command or set its defaults
preference	Candidate path-option preference entry
pref	Path-option preference

Command Mode

- /exec/configure/sr/te/color/cndpaths

## preference max

[no] preference max <pref-val>

Syntax Description

no	(Optional) Negate a command or set its defaults
pref-val	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
pref-val	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
prfxlist-name	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-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
val	Fixed multiplier value

### Command Mode

- /exec/configure

## priority-flow-control mode

[no] priority-flow-control mode { auto | on [ send-tlv ] | 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	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
send-tlv	(Optional) Send DCBX TLV for 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
if_list	List of interfaces
qos-group	(Optional) No-drop class to be recovered
qgrp-num	(Optional) qos-group number of the no-drop class
module	(Optional) Slot/module
module_idx	(Optional) Slot/module number
instance	(Optional) ASIC Instance Number
inst	(Optional) ASIC Instance Number in Decimal

### Command Mode

- /exec

## priority-flow-control watch-dog-interval on

```
[no] priority-flow-control watch-dog-interval { on [ disable-action ] [ interface-multiplier <multiplier-val> ]
| 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
disable-action	(Optional) Only generate syslog for stuck queue, no action
interface-multiplier	(Optional) Shutdown multiplier value
multiplier-val	(Optional) Shutdown mutlipler value
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 forced on

[no] priority-flow-control watch-dog forced { on | off }

### Syntax Description

no	(Optional) Negate the command
priority-flow-control	pfc related commands
watch-dog	watch dog interval
forced	Force enable watch-dog behaviour globally
on	Enable PFC watch-dog globally
off	Disable PFC watch-dog globally

### 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
interval-val	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	pfc related commands
watch-dog	watch dog interval
shutdown-multiplier	Shutdown multiplier
val	Shutdown multiplier

### Command Mode

- /exec/configure

# priority

[no] priority | priority <val>

Syntax Description

no	Negate a command or set its defaults
priority	Priority of this VRRP group
val	Priority level

Command Mode

- /exec/configure/if-eth-any/vrrpv3

# 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
value	(Optional) Strict-priority level (1=hi 2=med 3=lo)

## Command Mode

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

# 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
priority	Priority value
forwarding-threshold	(Optional) Set forwarding threshold
lower	(Optional) Set lower threshold value
lower-value	(Optional) Lower threshold value
upper	(Optional) Set upper threshold value
upper-value	(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
value	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
value	(Optional) Value of level, lower the number higher the priority

## Command Mode

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

# 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
priority_value	Configure the vr priority
forwarding-threshold	(Optional) Set forwarding threshold
lower	(Optional) Set lower threshold value
lower-value	(Optional) Lower threshold value
upper	(Optional) Set upper threshold value
upper-value	(Optional) Upper threshold value

## Command Mode

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

# priority

[no] priority | priority <setup\_prio> [ <hold\_prio> ]

## Syntax Description

no	Negate a command or set its defaults
priority	Specify LSP priority
setup_prio	setup priority
hold_prio	(Optional) hold priority

## Command Mode

- /exec/configure/te/lsp-attr

# priority

[no] priority | priority <setup\_pri> [ <hold\_pri> ]

## Syntax Description

no	Negate a command or set its defaults
priority	tunnel priority
setup_pri	setup priority
hold_pri	(Optional) hold priority

## Command Mode

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

# private-vlan

[no] private-vlan <pvlan-type>

Syntax Description

no	(Optional) Negate a command or set its defaults
private-vlan	Configure a private VLAN
pvlan-type	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
secondary_vlans	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
secondary_vlans	Secondary VLAN IDs of the private VLAN interface mapping

### Command Mode

- /exec/configure/if-vlan

# 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)
probeinterval-val	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)
probeinterval-val	probe interval timer value in secs

Command Mode

- /exec/configure/openflow/switch/sub-switch

# 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
probe-id-icmp	Service mode
frequency	(Optional) Frequency in seconds
freq-num	(Optional) Frequency in seconds
timeout	(Optional) Timeout in seconds
timeout	(Optional) Timeout in seconds
retry-down-count	(Optional) Retry-count when node goes down
count	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
up-count	(Optional) Count
ip	(Optional) ip address for probe
ip-addr	(Optional) IP4 prefix in format i.i.i.i

## Command Mode

- /exec/configure/itd-dg-node

# probe

```
{ probe <probe-id-icmp> [ frequency <freq-num> | timeout <timeout> | retry-down-count <count> |
retry-up-count <up-count> | source-interface <interface> | ip <ip-addr> ] + } | { no probe }
```

## Syntax Description

no	Negate a command or set its defaults
probe	Catena probe
probe-id-icmp	Service mode
frequency	(Optional) Frequency in seconds
freq-num	(Optional) Frequency in seconds
timeout	(Optional) Timeout in seconds
timeout	(Optional) Timeout in seconds
retry-down-count	(Optional) Retry-count when node goes down
count	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
up-count	(Optional) Count
source-interface	(Optional) catena probe Source-Interface
interface	(Optional) source interface for probe
ip	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
ip-addr	(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
probe-id-icmp	Service mode
frequency	(Optional) Frequency in seconds
freq-num	(Optional) Frequency in seconds
timeout	(Optional) Timeout in seconds
timeout	(Optional) Timeout in seconds
retry-down-count	(Optional) Retry-count when node goes down
count	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
up-count	(Optional) Count
ip	(Optional) ip address for probe
ip-addr	(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
probe-id-icmp	Service mode
frequency	(Optional) Frequency in seconds
freq-num	(Optional) Frequency in seconds
timeout	(Optional) Timeout in seconds
timeout	(Optional) Timeout in seconds
retry-down-count	(Optional) Retry-count when node goes down
count	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
up-count	(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
probe-id-icmp	Service mode
frequency	(Optional) Configure probe frequency for a node
freq-num	(Optional) Frequency in seconds
timeout	(Optional) Configure probe timeout for a node
timeout	(Optional) Timeout in seconds
retry-down-count	(Optional) Configure retry-count before node declared down
count	(Optional) Count
retry-up-count	(Optional) Configure retry-count after node declared up
up-count	(Optional) Count
ip	(Optional) Configure ip address for probe
ip-addr	(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
probe-id-icmp	Service mode
frequency	(Optional) Configure probe frequency for a node
freq-num	(Optional) Frequency in seconds
timeout	(Optional) Configure probe timeout for a node
timeout	(Optional) Timeout in seconds
retry-down-count	(Optional) Configure retry-count before node declared down
count	(Optional) Count
retry-up-count	(Optional) Configure retry-count after node declared up
up-count	(Optional) Count
ip	(Optional) Configure ip address for probe
ip-addr	(Optional) IP4 prefix in format i.i.i.i

## Command Mode

- /exec/configure/plb-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
probe-id-http	Service mode
get	Host name/Target address
url-name	(Optional) Specify only the user input text/filename. http://<node-ip>/<user input>
cache	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
frequency	(Optional) Frequency
freq-num	(Optional) Frequency in seconds
timeout	(Optional) Timeout
timeout	(Optional) Timeout in seconds
retry-down-count	(Optional) Retry-count when node goes down
count	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
up-count	(Optional) Count

## Command Mode

- /exec/configure/itd-device-group

# probe get

```
{ probe <probe-id-http> get [ <url-name> | cache | frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count> | source-interface <interface> | ip <ip-addr> ] + } | { no probe }
```

## Syntax Description

no	Negate a command or set its defaults
probe	Catena probe
probe-id-http	Service mode
get	Host name/Target address
url-name	(Optional) Specify only the user input text/filename. http://<node-ip>/<user input>
cache	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
frequency	(Optional) Frequency
freq-num	(Optional) Frequency
timeout	(Optional) Timeout
timeout	(Optional) Timeout
retry-down-count	(Optional) Retry-count when node goes down
count	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
up-count	(Optional) Count
source-interface	(Optional) catena probe Source-Interface
interface	(Optional) source interface for probe
ip	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
ip-addr	(Optional) IP4 prefix in format i.i.i.i

## Command Mode

- /exec/configure/catena-device-grp

# 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
probe-id-http	Service mode
get	Host name/Target address
url-name	(Optional) Specify only the user input text/filename. http://<node-ip>/<user input>
cache	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
frequency	(Optional) Frequency
freq-num	(Optional) Frequency in seconds
timeout	(Optional) Timeout
timeout	(Optional) Timeout in seconds
retry-down-count	(Optional) Retry-count when node goes down
count	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
up-count	(Optional) Count
ip	(Optional) ip address for probe
ip-addr	(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
probe-id-http	Service mode
get	Host name/Target address
url-name	(Optional) Specify only the user input text/filename. http://<node-ip>/<user input>
cache	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
frequency	(Optional) Frequency
freq-num	(Optional) Frequency in seconds
timeout	(Optional) Timeout
timeout	(Optional) Timeout in seconds
retry-down-count	(Optional) Retry-count when node goes down
count	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
up-count	(Optional) Count
ip	(Optional) ip address for probe
ip-addr	(Optional) IP4 prefix in format i.i.i.i

### Command Mode

- /exec/configure/itd-dg-node-standby

# probe host

```
{ probe <probe-id-dns> host <host-name> [ frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count> | source-interface <interface> | ip <ip-addr> ] + } | { no probe }
```

## Syntax Description

no	Negate a command or set its defaults
probe	Catena probe
probe-id-dns	Service mode
host	Host name/Target address
host-name	DNS Target IP Address or Hostname
frequency	(Optional) Frequency
freq-num	(Optional) Frequency
timeout	(Optional) Timeout
timeout	(Optional) Timeout
retry-down-count	(Optional) Retry-count when node goes down
count	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
up-count	(Optional) Count
source-interface	(Optional) catena probe Source-Interface
interface	(Optional) source interface for probe
ip	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
ip-addr	(Optional) IP4 prefix in format i.i.i.i

## Command Mode

- /exec/configure/catena-device-grp

# 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
probe-id-dns	Service mode
host	Host name/Target address
host-name	DNS Target IP Address or Hostname
frequency	(Optional) Frequency
freq-num	(Optional) Frequency
timeout	(Optional) Timeout
timeout	(Optional) Timeout
retry-down-count	(Optional) Retry-count when node goes down
count	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
up-count	(Optional) Count
ip	(Optional) ip address for probe
ip-addr	(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
probe-id-dns	Service mode
host	Host name/Target address
host-name	DNS Target IP Address or Hostname
frequency	(Optional) Frequency in seconds
freq-num	(Optional) Frequency in seconds
timeout	(Optional) Timeout in seconds
timeout	(Optional) Timeout in seconds
retry-down-count	(Optional) Retry-count when node goes down
count	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
up-count	(Optional) Count
ip	(Optional) ip address for probe
ip-addr	(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
probe-id-dns	Service mode
host	Host name/Target address
host-name	DNS Target IP Address or Hostname
frequency	(Optional) Frequency in seconds
freq-num	(Optional) Frequency in seconds
timeout	(Optional) Timeout in seconds
timeout	(Optional) Timeout in seconds
retry-down-count	(Optional) Retry-count when node goes down
count	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
up-count	(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
probe-id-dns	Service mode
host	Host name/Target address
host-name	DNS Target IP Address or Hostname
frequency	(Optional) Frequency in seconds
freq-num	(Optional) Frequency in seconds
timeout	(Optional) Timeout in seconds
timeout	(Optional) Timeout in seconds
retry-down-count	(Optional) Retry-count when node goes down
count	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
up-count	(Optional) Count
ip	(Optional) ip address for probe
ip-addr	(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
probe-id-dns	Service mode
host	Host name/Target address
host-name	DNS Target IP Address or Hostname
frequency	(Optional) Configure probe frequency for a node
freq-num	(Optional) Frequency in seconds
timeout	(Optional) Configure probe timeout for a node
timeout	(Optional) Timeout in seconds
retry-down-count	(Optional) Configure retry-count before node declared down
count	(Optional) Count
retry-up-count	(Optional) Configure retry-count after node declared down
up-count	(Optional) Count
ip	(Optional) Configure ip address for probe
ip-addr	(Optional) IP4 prefix in format i.i.i.i

## Command Mode

- /exec/configure/plb-dg-node-standby

# probe port

```
{ probe <probe-id> port <port-num> [ control <status> ] [ frequency <freq-num> | timeout <timeout> |
retry-down-count <count> | retry-up-count <up-count> | source-interface <interface> | ip <ip-addr> ] + } | {
no probe }
```

## Syntax Description

no	Negate a command or set its defaults
probe	Catena probe
probe-id	Service mode
port	Port
port-num	Port number
control	(Optional) control protocol
status	(Optional) control protocol status
frequency	(Optional) Frequency in seconds
freq-num	(Optional) Frequency in seconds
timeout	(Optional) Timeout in seconds
timeout	(Optional) Timeout in seconds
retry-down-count	(Optional) Retry-count when node goes down
count	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
up-count	(Optional) Count
source-interface	(Optional) catena probe Source-Interface
interface	(Optional) source interface for probe
ip	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
ip-addr	(Optional) IP4 prefix in format i.i.i.i

## Command Mode

- /exec/configure/catena-device-grp

## 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
probe-id	Service mode
port	Port
port-num	Port number
control	(Optional) control protocol
status	(Optional) control protocol status
frequency	(Optional) Frequency in seconds
freq-num	(Optional) Frequency in seconds
timeout	(Optional) Timeout in seconds
timeout	(Optional) Timeout in seconds
retry-down-count	(Optional) Retry-count when node goes down
count	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
up-count	(Optional) Count
ip	(Optional) ip address for probe
ip-addr	(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
probe-id	Service mode
port	Port
port-num	Port number
control	(Optional) control protocol
status	(Optional) control protocol status
frequency	(Optional) Frequency in seconds
freq-num	(Optional) Frequency in seconds
timeout	(Optional) Timeout in seconds
timeout	(Optional) Timeout in seconds
retry-down-count	(Optional) Retry-count when node goes down
count	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
up-count	(Optional) Count
ip	(Optional) ip address for probe
ip-addr	(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
probe-id	Service mode
port	Port
port-num	Port number
control	(Optional) control protocol
status	(Optional) control protocol status
frequency	(Optional) Frequency in seconds
freq-num	(Optional) Frequency in seconds
timeout	(Optional) Timeout in seconds
timeout	(Optional) Timeout in seconds
retry-down-count	(Optional) Retry-count when node goes down
count	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
up-count	(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
probe-id	Service mode
port	TCP/UDP Port
port-num	Port number
control	(Optional) control protocol
status	(Optional) control protocol status
frequency	(Optional) Configure probe frequency for a node
freq-num	(Optional) Frequency in seconds
timeout	(Optional) Configure probe timeout for a node
timeout	(Optional) Timeout in seconds
retry-down-count	(Optional) Configure retry-count before node declared down
count	(Optional) Count
retry-up-count	(Optional) Configure retry-count after node declared up
up-count	(Optional) Count
ip	(Optional) Configure ip address for probe
ip-addr	(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
probe-id	Service mode
port	TCP/UDP Port
port-num	Port number
control	(Optional) control protocol
status	(Optional) control protocol status
frequency	(Optional) Configure probe frequency for a node
freq-num	(Optional) Frequency in seconds
timeout	(Optional) Configure probe timeout for a node
timeout	(Optional) Timeout in seconds
retry-down-count	(Optional) Configure retry-count before node declared down
count	(Optional) Count
retry-up-count	(Optional) Configure retry-count after node declared up
up-count	(Optional) Count
ip	(Optional) Configure ip address for probe
ip-addr	(Optional) IP4 prefix in format i.i.i.i

### Command Mode

- /exec/configure/plb-dg-node-standby



# profile

[no] profile <profilename>

Syntax Description

profile	Specify the profile to be applied
profilename	profile name to be applied

Command Mode

- /exec/configure/nfm-system

# profile

{ profile <pid> | no profile }

## Syntax Description

no	Negate a command or set its defaults
profile	NGOAM profile to use
pid	NGOAM profile id

## Command Mode

- /exec/configure/configngoamconnectcheck

# profile

[no] profile <profile-name>

Syntax Description

no	(Optional) Negate the command
profile	Packet Drop Profile
profile-name	Profile name

Command Mode

- /exec/configure/pkt-drop

## 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

# protected

[no] { protected | unprotected }

Syntax Description

no	(Optional) Negate a command or set its defaults
protected	Candidate path-option protected
unprotected	Candidate path-option unprotected

Command Mode

- /exec/configure/sr/te/pol/cndpaths/pref/constraint/sgmnt

# protected

[no] { protected | unprotected }

Syntax Description

no	(Optional) Negate a command or set its defaults
protected	Candidate path-option protected
unprotected	Candidate path-option unprotected

Command Mode

- /exec/configure/sr/te/color/cndpaths/pref/constraint/sgmnt

# 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
proto-id	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

[no] protocol <proto> [ prefix-list <pflist-name> ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
proto	
pflist-name	(Optional) Name of the prefix-list to be matched

## Command Mode

- /exec/configure/config-snoop-policy

# protocol

{ protocol <num> } | { no protocol }

## Syntax Description

no	Negate a command or set its defaults
protocol	specify flow protocol number
num	flow protocol number

## Command Mode

- /exec/configure/configngoamprofileflow

# 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 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
val	
smpte-val	SMPTE-2059-2 val
aes-val	AES67-2015 val

### Command Mode

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

## 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 correction-range

[no] ptp correction-range <threshold-value>

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
correction-range	set correction range threshold value
threshold-value	correction threshold (ns) [-value, +value], default 100000 (100 us)

Command Mode

- /exec/configure



## ptp correction-range logging

[no] ptp correction-range logging

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
correction-range	set correction range threshold value
logging	enable logging for corrections exceeding threshold value

Command Mode

- /exec/configure

## ptp correction hardware

[no] ptp correction hardware

Syntax Description

no	(Optional) Negate a command or set its defaults
ptp	Precision Time Protocol (IEEE 1588) Subsystem
correction	Corrections for PTP
hardware	Frequency correction from hardware or software

Command Mode

- /exec/configure

# ptp device-type boundary

[no] ptp device-type { boundary-clock | generalized-ptp }

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
device-type	ptp device-type
boundary-clock	boundary-clock
generalized-ptp	Generalized PTP

Command Mode

- /exec/configure

## ptp domain

[no] ptp domain <domain-val>

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
domain	ptp clock domain
domain-val	Enter domain value

Command Mode

- /exec/configure

# ptp mean-path-delay

[no] ptp mean-path-delay <threshold-value>

## Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
mean-path-delay	set mean-path-delay threshold value
threshold-value	mean-path-delay threshold (ns), default 1000000000 (1 sec)

## 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 pdelay-req-interval

[no] ptp pdelay-req-interval <val>

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
pdelay-req-interval	Log mean peer delay request interval
val	value

Command Mode

- /exec/configure



# ptp priority1

[no] ptp priority1 <val>

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
priority1	priority1
val	priority1

Command Mode

- /exec/configure

## ptp priority2

[no] ptp priority2 <val>

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
priority2	Priority2
val	priority2

Command Mode

- /exec/configure

## 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
src-ip	IPv4 address (A.B.C.D) of source
vrf	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
vrf-name	(Optional) vrf to be used for hellos
vrf-cfg-name	(Optional) Configurable VRF name

### Command Mode

- /exec/configure

## ptp vlan

[no] ptp vlan <vlan>

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
vlan	vlan
vlan	vlan

Command Mode

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

# push

push [ <name> ]

Syntax Description

push	push current mode to stack or save it under name
name	(Optional) name

Command Mode

- /global

# pwd

pwd

Syntax Description

pwd	View current directory
-----	------------------------

Command Mode

- /exec

# python

python [ <uri> [ <pyargs> ] + ]

## Syntax Description

python	run a python command/script, or enter python mode (if no arg)
uri	(Optional) path to a python file
pyargs	(Optional) python command line arguments (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
inst	instance number
uri	(Optional) path to a python file
pyargs	(Optional) python command line arguments (maximum 32)

### Command Mode

- /exec/configure





## Q Commands

---

- [qos copy policy-map type network-qos prefix, on page 3104](#)
- [qos copy policy-map type queuing prefix, on page 3105](#)
- [qos qos-policies statistics, on page 3106](#)
- [qos statistics, on page 3107](#)
- [qualify udf, on page 3108](#)
- [queue-limit2, on page 3109](#)
- [queue-limit retransmit, on page 3110](#)
- [queue-limit retransmit, on page 3111](#)

## 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
pmap-nq-enum-name-dc3	
prefix	Policy map name prefix
suffix	Policy map name suffix
ix-name	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
pmap-name-que-temp	Policy-map name
prefix	Policy map name prefix
suffix	Policy map name suffix
ix-name	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 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
udf_tcam_type	Region type
qualify	Configure UDFs to be qualified for span region
udf	Configure UDF names
udf_name	UDF name

### Command Mode

- /exec/configure/tcam-templ

## 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
cos-val	(Optional) 802.1Q Class of Service value
percent2	Specify queue size in Percentage
perc-q-size	Queue size in percentage of total tx/rx buffer size
dynamic2	Queue size in dynamic alpha factor
alpha	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-limit retransmit

queue-limit retransmit { <qlimit> | unlimited } | no queue-limit retransmit [ <qlimit> | unlimited ]

### Syntax Description

no	Negate a command or set its defaults
queue-limit	Set maximum queue size
retransmit	Set maximum size of retransmit queue
qlimit	Maximum number of LSPs in retransmit queue
unlimited	Unlimited retransmit queue

### Command Mode

- /exec/configure/l2mp-isis/l2mp-isis-vrf-common



## queue-limit retransmit

queue-limit retransmit { <qlimit> | unlimited } | no queue-limit retransmit [ <qlimit> | unlimited ]

### Syntax Description

no	Negate a command or set its defaults
queue-limit	Set maximum queue size
retransmit	Set maximum size of retransmit queue
qlimit	Maximum number of LSPs in retransmit queue
unlimited	Unlimited retransmit queue

### Command Mode

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

queue-limit retransmit



## R Commands

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## radius-server deadtime

[no] radius-server deadtime <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
radius-server	Configure RADIUS related parameters
deadtime	duration for which non-reachable server is skipped
i0	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

key	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
hostipname	IPV4/IPV6 address or DNS name
key	RADIUS shared secret
pac	(Optional) Secure Radius Enable
0	RADIUS shared secret(clear text)
s0	RADIUS shared secret(clear text)
accounting	(Optional) Use for accounting
retransmit	(Optional) RADIUS server retransmit count
i5	(Optional) RADIUS server retransmit count
timeout	(Optional) RADIUS server timeout period in seconds
i4	(Optional) RADIUS server timeout period in seconds
retransmit1	(Optional) RADIUS server retransmit count
i7	(Optional) RADIUS server retransmit count
auth-port	(Optional) RADIUS server's port for authentication
i0	(Optional) port number
timeout1	(Optional) RADIUS server timeout period in seconds
i6	(Optional) RADIUS server timeout period in seconds
acct-port	(Optional) RADIUS server's port for accounting
i1	(Optional) port number
accounting1	(Optional) Use for accounting

authentication	(Optional) Use for authentication
6	Radius shared secret(type-6 encrypted)
s6	Tadius shared secret(encrypted)
7	RADIUS shared secret(encrypted)
s1	RADIUS shared secret(encrypted)
auth-port1	(Optional) RADIUS server's port for authentication
i2	(Optional) port number
s2	RADIUS shared secret(clear text)
acct-port1	(Optional) RADIUS server's port for accounting
i3	(Optional) port number

## Command Mode

- /exec/configure

## radius-server host test

```
[no] radius-server host { <hostname> } test { { username <s0> { [ password { <s1> | 0 <s2> | 7 <s7> } [
idle-time <i1> ] ] | [ idle-time <i1> ] } } { password { <s1> | 0 <s2> | 7 <s7> } [ idle-time <i1> ] } | { idle-time
<i1> } }
```

### Syntax Description

username	<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
hostname	IPV4/IPV6 address or DNS name
test	Parameters to send test packets
s0	user name
password	(Optional) user password in test packets
s1	(Optional) user password
0	(Optional) RADIUS shared secret(clear text)
s2	(Optional) RADIUS shared secret(clear text)
7	(Optional) RADIUS shared secret(encrypted)
s7	(Optional) RADIUS shared secret(encrypted)
idle-time	(Optional) time interval for monitoring the server
i1	(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)
s0	default RADIUS shared secret(clear text)
6	default RADIUS shared secret(type-6 encrypted)
s6	default RADIUS shared secret(type-6 encrypted)
7	default RADIUS shared secret(encrypted)
s1	default RADIUS shared secret(encrypted)
s2	default RADIUS shared secret(clear text)

### 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
i0	Global RADIUS server retransmit count

Command Mode

- /exec/configure

## radius-server test

```
[no] radius-server test { { username <s0> { [ password { <s1> | 0 <s2> | 7 <s7> } [ idle-time <i1> ] ] | [ idle-time <i1> ] } } | { password { <s1> | 0 <s2> | 7 <s7> } [ idle-time <i1> ] } | { idle-time <i1> } }
```

### Syntax Description

username	<s0>
no	(Optional) Negate a command or set its defaults
radius-server	Configure RADIUS related parameters
test	Parameters to send test packets
s0	user name
password	(Optional) user password in test packets
s1	(Optional) user password
0	(Optional) RADIUS shared secret(clear text)
s2	(Optional) RADIUS shared secret(clear text)
7	(Optional) RADIUS shared secret(encrypted)
s7	(Optional) RADIUS shared secret(encrypted)
idle-time	(Optional) time interval for monitoring the server
i1	(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
i0	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
max-thresh	(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
drop-prob	(Optional) Drop Probability Value
weight	(Optional) Queue length weight
weight	(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
drop-prob2	(Optional) Drop Probability Value
weight2	(Optional) Queue length weight
weight2	(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
drop-prob2	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
cos-list	List of class-of-service values
minimum-threshold	(Optional) Specify minimum threshold for WRED
maximum-threshold	(Optional) Specify maximum threshold for WRED
max-thresh	Maximum threshold value
percent	Specify thresholds in percent
percent1	Specify thresholds in percent
min-percent-of-qsize	Minimum threshold percent of queue size
max-percent-of-qsize	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
max-thresh	(Optional) Maximum threshold value
percent	(Optional) Specify thresholds in percent
percent1	(Optional) Specify thresholds in percent
min-percent-of-qsize	(Optional) Minimum threshold percent of queue size
max-percent-of-qsize	(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

rate-limit { auto | <rate\_value> } | no rate-limit

## Syntax Description

no	Negate a command or set its defaults
rate-limit	Set the Rate limit for SPAN packets
auto	Set the Rate limit using auto value
rate_value	Enter the percentage of the maximum rate for SPAN packets

## Command Mode

- /exec/configure/monitor-local-src /exec/configure/config-monitor  
/exec/configure/config-monitor-erspan-src

## rate-limit cpu direction input output both pps action log

```
{ rate-limit cpu direction { input | output | both } pps <pps-val> action log } | { no rate-limit cpu direction [
{ input | output | both } pps <pps-val> action log ] }
```

### Syntax Description

no	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
pps-val	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 cpu direction input output both pps action log

```
{ rate-limit cpu direction { input | output | both } pps <pps-val> action log } | { no rate-limit cpu direction [
{ input | output | both } pps <pps-val> action log ] }
```

### Syntax Description

no	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
pps-val	pps value
action	log action
log	write a syslog message if PPS hits rate-limit

### Command Mode

- /exec/configure

## 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)
packetin-val	packets per second
burst	Maximum number of packets to controller (pps)
burst-val	packets per second

### Command Mode

- /exec/configure/openflow/switch/sub-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)
packetin-val	packets per second
burst	Maximum number of packets to controller (pps)
burst-val	packets per second

### Command Mode

- /exec/configure/openflow/switch

## rd

```
{ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } } | { no rd [ { <ext-comm-rd-aa2nn4> |
<ext-comm-rd-aa4nn2> } ] }
```

## Syntax Description

no	Negate a command or set its defaults
rd	VPN Route Distinguisher
ext-comm-rd-aa4nn2	VPN route distinguisher in aa4:nn or ip:nn format
ext-comm-rd-aa2nn4	VPN route distinguisher in aa:nn format

## Command Mode

- /exec/configure/evpn/evi-sr

# 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
ext-comm-rd-aa4nn2	VPN route distinguisher in aa4:nn or ip:nn format
ext-comm-rd-aa2nn4	VPN route distinguisher in aa:nn format

## Command Mode

- /exec/configure/evpn/evi

## 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
ext-comm-rd-aa4nn2	VPN route distinguisher in aa4:nn or ip:nn format
ext-comm-rd-aa2nn4	VPN route distinguisher in aa:nn format

### Command Mode

- /exec/configure/vrf



# receiver

[no] receiver

Syntax Description

no	(Optional) Negate a command or set its defaults
receiver	Policies for a Local Receiver

Command Mode

- /exec/configure/nbm-host-policy

# receiver

[no] receiver

Syntax Description

no	(Optional) Negate a command or set its defaults
receiver	Policies for a Local Receiver

Command Mode

- /exec/configure/nbm-vrf/nbm-host-policy

# 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
interval	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 tunnel

Command Mode

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

# 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

[no] record <recordname>

Syntax Description

record	Specify FTE Record to use
recordname	Name of record

Command Mode

- /exec/configure/config-fte-monitor

# record

[no] record <recordname>

Syntax Description

record	Specify INT Record to use
recordname	Name of record

Command Mode

- /exec/configure/config-int-monitor

# record

[no] record <recordname>

Syntax Description

record	Specify Flow Record to use
recordname	Name of record

Command Mode

- /exec/configure/nfm-monitor



# record

[no] record <recordname>

Syntax Description

record	Record to be monitored
recordname	Record name to be configured

Command Mode

- /exec/configure/config-ssx-monitor

# record

[no] record <recordname>

Syntax Description

record	Specify Flow Record to use
recordname	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 { 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

[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 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 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
map-name	A 'routing-rules' route-map name
rtr_pol_name	An existing routing-rules policy

### Command Mode

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



## 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
map-name	A 'routing-rules' route-map name
rtr_pol_name	An existing routing-rules policy

### Command Mode

- /exec/configure/l2mp-isis/l2mp-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
maximum	Maximum number of IP prefixes redistributed
threshold	(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
retries	(Optional) Number of times to retry to get the redistributed routes again
timeout	(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
maximum	max number
threshold	(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
retries	(Optional) No of times to retry to get redistrib routes again
timeout	(Optional) Time between the retries

### Command Mode

- /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
maximum	max number
threshold	(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
retries	(Optional) No of times to retry to get redist routes again
timeout	(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
maximum	Maximum number of IP prefixes redistributed
threshold	(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
retries	(Optional) Number of times to retry to get the redistributed routes again
timeout	(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 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
maximum	max number
threshold	(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
retries	(Optional) Number of attempts to receive redistributed routes after max is reached
timeout	(Optional) Retry interval

### Command Mode

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

# 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
rmap-name	Route-map name
tag	Source protocol tag

## Command Mode

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

# 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
ref-bw-mbps	Bandwidth in Mbps (Default)
Mbps	(Optional) Specify in Mbps
ref-bw-gbps	Bandwidth in Gbps
Gbps	Specify in Gbps

## Command Mode

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

## 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
ref-bw-mbps	Bandwidth in Mbps (Default)
Mbps	(Optional) Specify in Mbps
ref-bw-gbps	Bandwidth in Gbps
Gbps	Specify in Gbps

### Command Mode

- /exec/configure/l2mp-isis/l2mp-isis-vrf-common /exec/configure/l2mp-isis/l2mp-isis-l2-topo

# 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 cancel

reload cancel

Syntax Description

reload	reboot the entire box
cancel	Cancel scheduling of the reload

Command Mode

- /exec

# reload in

reload in <secs>

Syntax Description

reload	reboot the entire box
in	Schedule a reload after some time
secs	Reload after n seconds

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 sync-adjacency

reload sync-adjacency

Syntax Description

reload	reboot the entire box
sync-adjacency	Reload with sync adjacency

Command Mode

- /exec

# reload timer

reload timer <secs>

Syntax Description

reload	reboot the entire box
timer	reboot after a delay <5-3600> seconds
secs	delay in seconds

Command Mode

- /exec

# reload vdc

reload vdc <d-vdc>

Syntax Description

vdc	Restart the current vdc
reload	Power cycle
d-vdc	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

no	Negate a command or set its defaults
seqno	(Optional) Sequence number
remark	Access list entry comment
comment	Comment, up to 100 characters

## Command Mode

- /exec/configure/macacl

# remark

```
{ [ <seqno> ] | no } remark <comment>
```

## Syntax Description

no	Negate a command or set its defaults
seqno	(Optional) Sequence number
remark	Access list entry comment
comment	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
seqno	(Optional) Sequence number
remark	Access list entry comment
comment	Comment, up to 100 characters

## Command Mode

- /exec/configure/ipacl /exec/configure/ipv6acl



## 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
asn	Autonomous System Number

### Command Mode

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

## 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

## 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
clean_sec	seconds to delay cleanup of replaced tunnel LSP
installation	Delay replacement of current LSP by reoptimized LSP
inst_sec	seconds to delay replacement of tunnel LSP
frequency	Interval between reoptimization scans
freq_sec	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

# report

report [ detail ]

Syntax Description

report	Show trigger report summary
detail	(Optional) Show detailed trigger report

Command Mode

- /exec/elamtah/insel7

# report

report [ detail ]

Syntax Description

report	Show trigger report summary
detail	(Optional) Show detailed trigger report

Command Mode

- /exec/elamtah/insel6

# report

report [ detail ]

Syntax Description

report	Show trigger report summary
detail	(Optional) Show detailed trigger report

Command Mode

- /exec/elamtah/inse18

# report

report [ detail ]

Syntax Description

report	Show trigger report summary
detail	(Optional) Show detailed trigger report

Command Mode

- /exec/elamta/insel9



# report

report [ detail ]

Syntax Description

report	Show trigger report summary
detail	(Optional) Show detailed trigger report

Command Mode

- /exec/elamtah/insel10

# report

report [ detail ]

Syntax Description

report	Show trigger report summary
detail	(Optional) Show detailed trigger report

Command Mode

- /exec/elamta/insel19

# report

report [ detail ]

Syntax Description

report	Show trigger report summary
detail	(Optional) Show detailed trigger report

Command Mode

- /exec/elamtah/outse10

# report

report [ detail ]

Syntax Description

report	Show trigger report summary
detail	(Optional) Show detailed trigger report

Command Mode

- /exec/elamtah/outsel1

# report

report [ detail ]

Syntax Description

report	Show trigger report summary
detail	(Optional) Show detailed trigger report

Command Mode

- /exec/elamtah/outsel2

# report

report

Syntax Description

report	Show trigger report
--------	---------------------

Command Mode

- /exec/elamns/se13

# report

report

Syntax Description

report	Show trigger report
--------	---------------------

Command Mode

- /exec/elanms/sel4

# report

report

Syntax Description

report	Show trigger report
--------	---------------------

Command Mode

- /exec/eramns/se15



# report

report

Syntax Description

report	Show trigger report
--------	---------------------

Command Mode

- /exec/elanms/sel6

# report

report

Syntax Description

report	Show trigger report
--------	---------------------

Command Mode

- /exec/elamns/se17

# report

report

Syntax Description

report	Show trigger report
--------	---------------------

Command Mode

- /exec/elanms/outse0

# report

report

Syntax Description

report	Show trigger report
--------	---------------------

Command Mode

- /exec/eramns/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
bytes-in-payload	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
bytes-in-payload	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
bytes-in-payload	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
ip_ipv6_mac_arp	IP/IPv6/MAC/ARP
access-list	Resequence an access list
time-range	Resequence a time-range
name	List name
number	Starting sequence number
increment	Step to increment the sequence number

### Command Mode

- /exec/configure



# reset

reset

Syntax Description

reset	Reset Trigger conditions
-------	--------------------------

Command Mode

- /exec/elanms/sel6

# reset

reset

Syntax Description

reset	Reset Trigger Filters
-------	-----------------------

Command Mode

- /exec/elamtah/insel6

# reset

reset

Syntax Description

reset	Reset Trigger Filters
-------	-----------------------

Command Mode

- /exec/elamtah/insel7

# reset

reset

Syntax Description

reset	Reset Trigger Filters
-------	-----------------------

Command Mode

- /exec/elamtah/insel8

# reset

reset

Syntax Description

reset	Reset Trigger Filters
-------	-----------------------

Command Mode

- /exec/elamtah/inse19

# reset

reset

Syntax Description

reset	Reset Trigger Filters
-------	-----------------------

Command Mode

- /exec/elamtah/insel10

# reset

reset

Syntax Description

reset	Reset Trigger Filters
-------	-----------------------

Command Mode

- /exec/elamtah/insel19

# reset

reset

Syntax Description

reset	Reset Trigger conditions
-------	--------------------------

Command Mode

- /exec/elamtah/outsel0



# reset

reset

Syntax Description

reset	Reset Trigger conditions
-------	--------------------------

Command Mode

- /exec/elamtah/outsell

# reset

reset

Syntax Description

reset	Reset Trigger conditions
-------	--------------------------

Command Mode

- /exec/elamta/outsel2

# reset

reset

Syntax Description

reset	Reset Trigger conditions
-------	--------------------------

Command Mode

- /exec/elanms/sel3

# reset

reset

Syntax Description

reset	Reset Trigger conditions
-------	--------------------------

Command Mode

- /exec/elamns/se14

# reset

reset

Syntax Description

reset	Reset Trigger conditions
-------	--------------------------

Command Mode

- /exec/alamns/sel5

# reset

reset

Syntax Description

reset	Reset Trigger conditions
-------	--------------------------

Command Mode

- /exec/elamns/se17

# reset

reset

Syntax Description

reset	Reset Trigger conditions
-------	--------------------------

Command Mode

- /exec/elanms/outsel0

# 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)
as	Autonomous

Command Mode

- /exec

# restart eigrp

restart eigrp <eigrp-ptag>

Syntax Description

restart	Manually restart a component
eigrp	Enhanced Interior Gateway Routing Protocol (EIGRP)
eigrp-ptag	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 fabricpath domain

restart fabricpath domain

Syntax Description

restart	Manually restart a component
fabricpath	Data Center Intermediate System to Intermediate System (L2MP-IS-IS)
domain	Fabricpath IS-IS domain

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)
tag	Routing process tag

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 ospf

restart ospf <tag>

Syntax Description

restart	Manually restart a component
ospf	Open Shortest Path First (OSPF)
tag	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)
tag	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)
tag	Routing process tag

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)
tag	Process ID

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
rmap-name	Route-map name

## Command Mode

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

## 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
rmap-name	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  
/exec/configure/router-bgp/router-bgp-af-ipv4-mvpn /exec/configure/router-bgp/router-bgp-af-ipv6-mvpn

# retransmit-interval

```
{ { retransmit-interval <interval> } | { no retransmit-interval [ <interval> ] } }
```

## Syntax Description

no	Negate a command or set its defaults
retransmit-interval	Packet retransmission interval
interval	(seconds)

## Command Mode

- /exec/configure/router-ospf3/router-ospf3-vlink /exec/configure/router-ospf3/vrf/router-ospf3-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
interval	(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
interval	(seconds)

## Command Mode

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

# revision

revision <rev-id> | no revision [ <rev-id> ]

## Syntax Description

no	Negate a command or set its defaults
revision	Set configuration revision number
rev-id	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

Command Mode

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



## rewrite-rt-asn

[ no | default ] rewrite-rt-asn

Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
rewrite-rt-asn	Auto generate RTs for EBGP neighbor

Command Mode

- /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

# 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
uri0	Delete a directory
uri1	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
i0	Alarm number
s0	MIB object to monitor
i1	Sample interval
absolute	Test each sample directly
delta	Test delta between samples
rising-threshold	Configure the rising threshold
i2	Rising threshold value
i3	(Optional) Event to fire on rising threshold crossing
falling-threshold	Configure the falling threshold
i4	Falling threshold value
i5	(Optional) Event to fire on falling threshold crossing
owner	(Optional) Specify an owner for the alarm
s1	(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
i0	Event number
log	(Optional) Generate RMON log when the event fires
trap	(Optional) Generate SNMP trap when event fires
s0	(Optional) SNMP community string
description	(Optional) Specify a description of the event
s1	(Optional) Event description
owner	(Optional) Specify an owner for the event
s2	(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
i0	Alarm number
s0	MIB object to monitor
i1	Sample interval
absolute	Test each sample directly
delta	Test delta between samples
startupalarm	Configure alarm type
i2	Startup alarm type, rising(1) falling(2) risingorfalling(3)
rising-threshold	Configure the rising threshold
i3	Rising threshold value in bytes
i4	Event to fire on rising threshold crossing
falling-threshold	Configure the falling threshold
i5	Falling threshold value in bytes
i6	Event to fire on falling threshold crossing
owner	Specify an owner for the alarm
s1	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
eid-prefix	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
arg6	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
arg2	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
priority_value	specify priority value

## Command Mode

- /exec/configure/vpc-domain

## 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
chkpoint_name	Checkpoint name
file	Rollback running configuration to configuration file
file_uri	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

# root-priority

[no] root-priority <root-pri>

Syntax Description

no	(Optional) Negate a command or set its defaults
root-priority	Set priority with which nodes becomes root
root-pri	Root priority value per topology

Command Mode

- /exec/configure/l2mp-isis/l2mp-isis-vrf-common /exec/configure/l2mp-isis/l2mp-isis-l2-topo

## 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
rtmap-name	Route-map name
rtmap-name	Known route-map name
permit	(Optional) Route map permits set operations
deny	(Optional) Route map denies set operations
seq	Sequence to insert to/delete from existing route-map entry

### Command Mode

- /exec/configure

# route-map

route-map <rtmap-name> [ permit | deny ]

## Syntax Description

route-map	Create route-map or enter route-map command mode
rtmap-name	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
rtmap-name	Route-map name
permit	(Optional) Route map permits set operations
deny	(Optional) Route map denies set operations
seq	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
rtmap-name	Route-map name
rtmap-name	Known route-map name
permit	(Optional) Route map permits set operations
deny	(Optional) Route map denies set operations

## 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
rmap-name	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
route-map-name	Route-map name
route-map-name	Route-map name
route-map-name	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
- /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
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- /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

```
{ route-target both { <ext-comm-rt-aa2nn4> | <ext-comm-rt-aa4nn2> } } | { no route-target both {
<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
both	Export and Import Target-VPN community
ext-comm-rt-aa4nn2	RT extcommunity in aa4:nn or ip:nn format
ext-comm-rt-aa2nn4	RT extcommunity in aa:nn format

### Command Mode

- /exec/configure/evpn/evi-sr

## 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
ext-comm-rt-aa4nn2	RT extcommunity in aa4:nn or ip:nn format
ext-comm-rt-aa2nn4	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
ext-comm-rt-aa4nn2	RT extcommunity in aa4:nn or ip:nn format
ext-comm-rt-aa2nn4	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> } } | { no route-target export { <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
export	Export Target-VPN community
ext-comm-rt-aa4nn2	RT extcommunity in aa4:nn or ip:nn format
ext-comm-rt-aa2nn4	RT extcommunity in aa:nn format

### Command Mode

- /exec/configure/evpn/evi-sr

## 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
ext-comm-rt-aa4nn2	RT extcommunity in aa4:nn or ip:nn format
ext-comm-rt-aa2nn4	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
ext-comm-rt-aa4nn2	RT extcommunity in aa4:nn or ip:nn format
ext-comm-rt-aa2nn4	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> } } | { no route-target import { <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
ext-comm-rt-aa4nn2	RT extcommunity in aa4:nn or ip:nn format
ext-comm-rt-aa2nn4	RT extcommunity in aa:nn format

### Command Mode

- /exec/configure/evpn/evi-sr

## 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
ext-comm-rt-aa4nn2	RT extcommunity in aa4:nn or ip:nn format
ext-comm-rt-aa2nn4	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
ext-comm-rt-aa4nn2	RT extcommunity in aa4:nn or ip:nn format
ext-comm-rt-aa2nn4	RT extcommunity in aa:nn format

### Command Mode

- /exec/configure/evpn/evi

## 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)
vlan_id	(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

```
{ { router-id <id> } | { no router-id [ <id> ] } }
```

## Syntax Description

no	Negate a command or set its defaults
router-id	Set OSPFv3 process router-id
id	Router ID Value

## Command Mode

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

# router-id

[no] router-id { <interface> | <rid> }

## Syntax Description

no	(Optional) Negate a command or set its defaults
router-id	Router-ID
interface	Interface to provide IP address for router-id
rid	IP address to become router-id

## Command Mode

- /exec/configure/router-isis/router-isis-af-ipv4

# router-id

```
{ { [ eigrp ] router-id <id> } | { no [ eigrp ] router-id [ <id> ] } }
```

## Syntax Description

no	Negate a command or set its defaults
eigrp	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
router-id	router-id for this EIGRP process
id	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 OSPF process router-id
id	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
vrf-name	(Optional) VPN Routing/Forwarding instance name
vrf-known-name	(Optional) Known VRF name
interface	
force	(Optional) Forcibly change the LDP router id

## Command Mode

- /exec/configure/ldp

# 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
router-id	Manually configured router identifier

Command Mode

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

# router-preference maximum

[no] router-preference maximum <prefopts>

Syntax Description

no	(Optional) Negate a command or set its defaults
prefopts	

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)
eigrp-ptag	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)
tag	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)
tag	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)
tag	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)
tag	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
vrf-known-name	Known VRF name

### Command Mode

- /exec

# 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
locator	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
seq	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

no	Negate a command or set its defaults
rule	Enter the rule number
number	Enter the rule number
action	Action
permission	Permission
featuretype	(Optional) Feature type
name	(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
number	Enter the rule number
action	Action
command	Command line
cmd_line	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
number	Enter the rule number
action	Action
permission	Permission
oid	SNMP oid (up to 32 elements)
snmp_oid	Enter snmp oid instance name

## Command Mode

- /exec/configure/role

# run-script

run-script <uri0>

Syntax Description

run-script	Run shell scripts
uri0	Enter script file name

Command Mode

- /exec

# run2 guestshell

```
run2 guestshell [ { <cmd_args> } ]
```

## Syntax Description

run2	execute/run program
guestshell	The guest shell Linux-bash
cmd_args	(Optional) The command to execute

## Command Mode

- /exec

# run bash

run bash [ <cmd> ]

Syntax Description

run	execute/run program
bash	linux-bash
cmd	(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
ts	time in seconds

Command Mode

- /exec/configure/macsec-policy

## sampling-rate prepost

[no] sampling-rate { pre-trigger <pre-sample-rate> } { post-trigger <post-sample-rate> }

### Syntax Description

no	(Optional) Negate the command
sampling-rate	Configure sampling-rate parameters
pre-trigger	Pre-trigger parameters
pre-sample-rate	Transactions to be captured out of 16 samples (1-16)
post-trigger	Post-trigger parameters
post-sample-rate	Transactions to be captured out of 16 samples (1-16)

### Command Mode

- /exec/configure/pkt-drop

# 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
mode_opt	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
pmk	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
mode_opt	(Optional) modelist options
modelist	(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
uri0	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
sf-value	Specify scale factor value from 0.10 to 2.00
module	Module
module-number	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 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
i0	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



# 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
uri0	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
limit	Specify limit

### 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
pattern	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
seclvl	

Command Mode

- /exec/configure/config-snoop-policy

# security-policy

[no] security-policy <policy>

Syntax Description

security-policy	Configure Security policy
policy	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
expr	Edition command (script)

## Command Mode

- /output

## segment-list name

[no] segment-list name <seg-list-name>

### Syntax Description

no	(Optional) Negate a command or set its defaults
segment-list	Explicit segment list configuration
name	Segment-list name
seg-list-name	Identifying name for the segment-list with max 128 characters

### Command Mode

- /exec/configure/sr/te



# segment-routing

[no] segment-routing

Syntax Description

no	(Optional) Negate a command or set its defaults
segment-routing	Enable Segment Routing

Command Mode

- /exec/configure

# segment-routing mpls

[no] segment-routing mpls

Syntax Description

no	(Optional) Negate a command or set its defaults
segment-routing	Segment-routing properties
mpls	Configure MPLS parameters

Command Mode

- /exec/configure/router-isis/router-isis-af-ipv4

## segment-routing mpls

[no] segment-routing mpls

Syntax Description

no	(Optional) Negate a command or set its defaults
segment-routing	Segment routing parameters
mpls	Enable segment routing MPLS

Command Mode

- /exec/configure/router-ospf

# segments

[no] segments

Syntax Description

no	(Optional) Negate a command or set its defaults
segments	Candidate path-option segments

Command Mode

- /exec/configure/sr/te/color/cndpaths/pref/constraint

# segments

[no] segments

Syntax Description

no	(Optional) Negate a command or set its defaults
segments	Candidate path-option segments

Command Mode

- /exec/configure/sr/te/pol/cndpaths/pref/constraint

# 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

[ 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 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
stime	HH:MM:SS Time to start <0-23>:<0-59>:<0-59>
etime	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	
sdays	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`

eday	Day of the month to end
syear	Year to start
eyear	Year to end
duration	Set key lifetime duration
dsec	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 } <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 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 } <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
send-lifetime	Set send lifetime of macsec key
local	(Optional) Specify time in local timezone
stime	HH:MM:SS Time to start <0-23>:<0-59>:<0-59>
etime	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	
sday	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

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

#### Command Mode

- /exec/configure/macseckeychain-key

# send

send <line>

## Syntax Description

send	Send message to open sessions
line	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
s0	Specify pts/tty device type
line	Enter a one line message

## Command Mode

- /exec

# sender

[no] sender

Syntax Description

no	(Optional) Negate a command or set its defaults
sender	Policies for a Sender

Command Mode

- /exec/configure/nbm-host-policy

# sender

[no] sender

Syntax Description

no	(Optional) Negate a command or set its defaults
sender	Policies for a Sender

Command Mode

- /exec/configure/nbm-vrf/nbm-host-policy



## sensor-group

[no] sensor-group <grp-id>

Syntax Description

no	(Optional) Negate a command or set its defaults
sensor-group	Create a sensor group
grp-id	Identifier

Command Mode

- /exec/configure/telemetry

# sequence

{ [ no ] sequence <seq> | no sequence }

## Syntax Description

sequence	Sequence Number
seq	Differentiated services codepoint value

## Command Mode

- /exec/configure/config-postcard-exporter

# sequence

{ [ no ] sequence <seq> | no sequence }

## Syntax Description

sequence	Sequence Number
seq	Sequence Number value

## Command Mode

- /exec/configure/config-int-exporter

## server-key 0 7

```
{ { [ no ] server-key { 0 <s0> | 7 <s1> | <s2> } } | { no server-key } }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
server-key	Encryption key shared with the radius clients
0	RADIUS shared secret(clear text)
s0	RADIUS shared secret(clear text)
7	RADIUS shared secret(encrypted)
s1	RADIUS shared secret(encrypted)
s2	RADIUS shared secret(clear text)(Max Size 63)

### Command Mode

- /exec/configure/locsvr-da-radius

# server

[no] server <host0>

Syntax Description

no	(Optional) Negate a command or set its defaults
server	LDAP server name
host0	LDAP server name

Command Mode

- /exec/configure/ldap

## server

[no] server <hostname>

Syntax Description

no	(Optional) Negate a command or set its defaults
server	RADIUS server name or IP address
hostname	IPV4/IPV6 address or DNS name

Command Mode

- /exec/configure/radius

# server

[no] server { <hostipname> }

Syntax Description

no	(Optional) Negate a command or set its defaults
server	TACACS+ server name or IP address
hostipname	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
ipaddr	Enter IP address of server
host	Hostname of server
hostname	Enter hostname of server
port	(Optional) Port
portnum	(Optional) Enter port number
vrf	(Optional) vrf context
vrf-name	(Optional) VRF name
vrf-known-name	(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
groupname	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
ipaddr	Enter IP address of server
host	Hostname of server
hostname	Enter hostname of server
port	(Optional) Port
portnum	(Optional) Enter port number
vrf	(Optional) vrf context
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name

### Command Mode

- /exec/configure/fabric-db

## service-name

[no] service-name <nxsdk-service-name> [ profile { <nxsdk-profile-name> | <profile-name> } ]

### Syntax Description

service-name	Complete path and name of file to execute
nxsdk-service-name	Service name
profile	(Optional) Service profile
nxsdk-profile-name	(Optional) Name of the profile
profile-name	(Optional) Name of the profile

### Command Mode

- /exec/configure/nxsdk-remote

## service-policy-dynamic input

[no] service-policy-dynamic input <policy\_name>

### Syntax Description

no	(Optional) Negate a command or set its defaults
service-policy-dynamic	Attach a policy to control-plane interface
input	Input the policy name
policy_name	Name of the policy

### Command Mode

- /exec/configure/ctrl-plane-dyn

# 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
inp-or-out	
pmap-name-qos	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 /exec/configure/if-san-port-channel /exec/configure/if-nve

# 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
pmap-name-qos	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
policy_name	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
pmap-name-nq	Policy-map name

### Command Mode

- /exec/configure/system/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
inp-only	
pmap-name-qos	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>

### 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
inp-or-out	
pmap-name-que	Policy-map name

### 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
inp-or-out	
pmap-name-que	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
pmap-name-que	Policy-map name __nil__ You must create a policy-map before using this command

Command Mode

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

# 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 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
i0	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 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
vrf-name	(Optional) VPN Routing/Forwarding instance name
vrf-known-name	(Optional) Known VRF name
for	(Optional) Prefix list to specify LDP peers
pfx-list	(Optional) Prefix list for LDP peers
duration	(Optional) Period to sustain session protection after loss of link discovery
secs	(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-af-ipv6

## set-overload-bit

```
{ no set-overload-bit | [ no ] set-overload-bit { always | on-startup { <secs> | <seconds> } } }
```

### 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
secs	Clear the overload bit after an elapsed time in seconds
seconds	Clear the overload bit after an elapsed time in seconds

### Command Mode

- /exec/configure/l2mp-isis/l2mp-isis-vrf-common

## 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
secs	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)
seconds	(Optional) Clear the overload bit after an elapsed time in seconds
as	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
paramname	Enter the name of the parameter
paramval	Enter the parameter value

## Command Mode

- /exec/configure/param-inst

# 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
cos-val	802.1Q Class of Service value
dscp	DSCP in IP(v4) and IPv6 packets
tunnel	(Optional) Set DSCP in tunnel encapsulation
dscp-val	DSCP value
opt_set_dscp	
precedence	Precedence in IP(v4) and IPv6 packets
tunnel1	(Optional) Set DSCP in tunnel encapsulation
prec-val	IP Precedence value
opt_set_prec	

## Command Mode

- /exec/configure/pmap/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

```
[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
cos-val	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
src-mac-addr	Layer 2 MAC Address
dest-mac-addr	Layer 2 MAC Address
vlan	Set the VLAN ID
vlan-number	VLAN NUMBER
ip-tos	Set the IPv4 TOS
ip-tos-value	IPv4 TOS Value
ip-tos-mask	IPV4 TOS Mask
out-interface	Output to a Specified Interface
iface-list	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
pmap-table-handle	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
dscp-val	DSCP value
dscp-enum	
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
prec-val	IP Precedence value
prec-enum	
discard-class	Discard class
dis-class1	Discard class
dis-class2	Discard class
dis-class-val	Discard class value
qos-group	Qos-group
qos-grp-val	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
exp-value	MPLS value
exp-value-imp	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 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
lastas	number of last-AS prepends
as	AS number
tag	Set the tag as an AS-path attribute
as	(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)
name	Community list name
delete	Delete matching communities

### 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
cos-val	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
cos-val	802.1Q Class of Service value

## Command Mode

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

# set dampening

```
{ set dampening <halflife> <reuse> <supress> <duration> } | { no set dampening [ <halflife> <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
halflife	half-life time for the penalty
reuse	penalty to start reusing a route
supress	penalty to start suppressing a route
duration	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
external-dist	Administrative distance for IGP or EBGP routes
internal-dist	(Optional) Administrative distance for internal routes
local-dist	(Optional) Administrative distance for local routes

### Command Mode

- /exec/configure/route-map



## set drpvec

```
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> } +
```

### Syntax Description

set	Setup Trigger
drpvec	All drop vector fields
parse_err	Parse_Err
parse_err	Parse_Err
outer_ids_g0	Outer_Ids_G0
outer_ids_g0	Outer_Ids_G0
outer_ids_g1	Outer_Ids_G1
outer_ids_g1	Outer_Ids_G1
outer_ids_g2	Outer_Ids_G2

outer_ids_g2	Outer_Ids_G2
outer_ids_g3	Outer_Ids_G3
outer_ids_g3	Outer_Ids_G3
outer_ids_g4	Outer_Ids_G4
outer_ids_g4	Outer_Ids_G4
outer_ids_g5	Outer_Ids_G5
outer_ids_g5	Outer_Ids_G5
outer_ids_g6	Outer_Ids_G6
outer_ids_g6	Outer_Ids_G6
outer_ids_g7	Outer_Ids_G7
outer_ids_g7	Outer_Ids_G7
outer_xlate_miss	Outer_Xlate_Miss
outer_xlate_miss	Outer_Xlate_Miss
infra_encap_src_tep_miss	Infra_Encap_Src_Tep_Miss
infra_encap_src_tep_miss	Infra_Encap_Src_Tep_Miss
infra_encap_type_mismatch	Infra_Encap_Type_Mismatch
infra_encap_type_mismatch	Infra_Encap_Type_Mismatch
uc_tenant_mytep_route_miss	Uc_Tenant_Mytep_Route_Miss
uc_tenant_mytep_route_miss	Uc_Tenant_Mytep_Route_Miss
uc_tenant_mytep_bridge_miss	Uc_Tenant_Mytep_Bridge_Miss
uc_tenant_mytep_bridge_miss	Uc_Tenant_Mytep_Bridge_Miss
arp_nd_ucast_miss	Arp_Nd_Ucast_Miss
arp_nd_ucast_miss	Arp_Nd_Ucast_Miss
mc_dvif_miss	Mc_Dvif_Miss
mc_dvif_miss	Mc_Dvif_Miss
shard_override_vlan_xlate_miss	Shard_Override_Vlan_Xlate_Miss
shard_override_vlan_xlate_miss	Shard_Override_Vlan_Xlate_Miss
fcf_check_failed	Fcf_Check_Failed
fcf_check_failed	Fcf_Check_Failed

ttl_expired	Ttl_Expired
ttl_expired	Ttl_Expired
security_group_deny	Security_Group_Deny
security_group_deny	Security_Group_Deny
mc_iic	Mc_Iic
mc_iic	Mc_Iic
mc_gipo_miss	Mc_Gipo_Miss
mc_gipo_miss	Mc_Gipo_Miss
vif_miss	Vif_Miss
vif_miss	Vif_Miss
missing_vntag	Missing_Vntag
missing_vntag	Missing_Vntag
vlan_xlate_miss	Vlan_Xlate_Miss
vlan_xlate_miss	Vlan_Xlate_Miss
ip_mtu_check_failure	Ip_Mtu_Check_Failure
ip_mtu_check_failure	Ip_Mtu_Check_Failure
uc_rpf_failure	Uc_Rpf_Failure
uc_rpf_failure	Uc_Rpf_Failure
mc_rpf_failure	Mc_Rpf_Failure
mc_rpf_failure	Mc_Rpf_Failure
l3_binding_failure	L3_Binding_Failure
l3_binding_failure	L3_Binding_Failure
nsh_not_allowed	Nsh_Not_Allowed
nsh_not_allowed	Nsh_Not_Allowed
src_vlan_mbr	Src_Vlan_Mbr
src_vlan_mbr	Src_Vlan_Mbr
nsh_src_sw_chk_failed	Nsh_Src_Sw_Chk_Failed
nsh_src_sw_chk_failed	Nsh_Src_Sw_Chk_Failed
l2mp_iic_failed	L2Mp_Iic_Failed

l2mp_iic_failed	L2Mp_Iic_Failed
l2mp_on_ce_bd	L2Mp_On_Ce_Bd
l2mp_on_ce_bd	L2Mp_On_Ce_Bd
l2mp_encap_from_edge	L2Mp_Encap_From_Edge
l2mp_encap_from_edge	L2Mp_Encap_From_Edge
l2mp_noencap_from_core	L2Mp_Noencap_From_Core
l2mp_noencap_from_core	L2Mp_Noencap_From_Core
outer_ttl_expired	Outer_Ttl_Expired
outer_ttl_expired	Outer_Ttl_Expired
incorrect_vntag_type	Incorrect_Vntag_Type
incorrect_vntag_type	Incorrect_Vntag_Type
l2mp_ftag_comp_miss	L2Mp_Ftag_Comp_Miss
l2mp_ftag_comp_miss	L2Mp_Ftag_Comp_Miss
ipv6_uc_link_local_cross_bd	Ipv6_Uc_Link_Local_Cross_Bd
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_svi	Ipv6_Mc_Sa_Local_Da_Global_Svi
ipv6_mc_sa_local_da_global_l3if	Ipv6_Mc_Sa_Local_Da_Global_L3If
ipv6_mc_sa_local_da_global_l3if	Ipv6_Mc_Sa_Local_Da_Global_L3If
routing_disabled	Routing_Disabled
routing_disabled	Routing_Disabled
fc_lookup_miss	Fc_Lookup_Miss
fc_lookup_miss	Fc_Lookup_Miss
no_sgt_from_core	No_Sgt_From_Core
no_sgt_from_core	No_Sgt_From_Core
ip_self_fwd_failure	Ip_Self_Fwd_Failure
ip_self_fwd_failure	Ip_Self_Fwd_Failure
acl_drop	Acl_Drop
acl_drop	Acl_Drop

smac_miss	Smac_Miss
smac_miss	Smac_Miss
secure_mac_move	Secure_Mac_Move
secure_mac_move	Secure_Mac_Move
non_secure_mac	Non_Secure_Mac
non_secure_mac	Non_Secure_Mac
l2_binding_failure	L2_Binding_Failure
l2_binding_failure	L2_Binding_Failure
inner_ids_g0	Inner_Ids_G0
inner_ids_g0	Inner_Ids_G0
inner_ids_g1	Inner_Ids_G1
inner_ids_g1	Inner_Ids_G1
inner_ids_g2	Inner_Ids_G2
inner_ids_g2	Inner_Ids_G2
inner_ids_g3	Inner_Ids_G3
inner_ids_g3	Inner_Ids_G3
inner_ids_g4	Inner_Ids_G4
inner_ids_g4	Inner_Ids_G4
inner_ids_g5	Inner_Ids_G5
inner_ids_g5	Inner_Ids_G5
inner_ids_g6	Inner_Ids_G6
inner_ids_g6	Inner_Ids_G6
inner_ids_g7	Inner_Ids_G7
inner_ids_g7	Inner_Ids_G7
infra_encap_src_tep_drop	Infra_Encap_Src_Tep_Drop
infra_encap_src_tep_drop	Infra_Encap_Src_Tep_Drop
split_horizon_check	Split_Horizon_Check
split_horizon_check	Split_Horizon_Check
mc_fib_miss	Mc_Fib_Miss

mc_fib_miss	Mc_Fib_Miss
mc_l2_miss	Mc_L2_Miss
mc_l2_miss	Mc_L2_Miss
uc_df_check_failure	Uc_Df_Check_Failure
uc_df_check_failure	Uc_Df_Check_Failure
uc_pc_cfg_table_drop	Uc_Pc_Cfg_Table_Drop
uc_pc_cfg_table_drop	Uc_Pc_Cfg_Table_Drop
illegal_expl_null	Illegal_Expl_Null
illegal_expl_null	Illegal_Expl_Null
mpls_lookup_miss	Mpls_Lookup_Miss
mpls_lookup_miss	Mpls_Lookup_Miss
outer_cbl_check	Outer_Cbl_Check
outer_cbl_check	Outer_Cbl_Check
null_shard_with_e_bit_set	Null_Shard_With_E_Bit_Set
null_shard_with_e_bit_set	Null_Shard_With_E_Bit_Set
lb_drop	Lb_Drop
lb_drop	Lb_Drop
nat_fragment	Nat_Fragment
nat_fragment	Nat_Fragment
illegal_dce_pkt	Illegal_Dce_Pkt
illegal_dce_pkt	Illegal_Dce_Pkt
dci_vnid_xlate_miss	Dci_Vnid_Xlate_Miss
dci_vnid_xlate_miss	Dci_Vnid_Xlate_Miss
dci_sclass_xlate_miss	Dci_Sclass_Xlate_Miss
dci_sclass_xlate_miss	Dci_Sclass_Xlate_Miss
dci_2nd_uc_transit	Dci_2nd_Uc_Transit
dci_2nd_uc_transit	Dci_2nd_Uc_Transit

Command Mode

- /exec/elamtah/outsel2

## set drpvec

```
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> } +
```

### Syntax Description

set	Setup Trigger
drpvec	All drop vector fields
parse_err	Parse_Err
parse_err	Parse_Err
outer_ids_g0	Outer_Ids_G0
outer_ids_g0	Outer_Ids_G0
outer_ids_g1	Outer_Ids_G1
outer_ids_g1	Outer_Ids_G1
outer_ids_g2	Outer_Ids_G2

outer_ids_g2	Outer_Ids_G2
outer_ids_g3	Outer_Ids_G3
outer_ids_g3	Outer_Ids_G3
outer_ids_g4	Outer_Ids_G4
outer_ids_g4	Outer_Ids_G4
outer_ids_g5	Outer_Ids_G5
outer_ids_g5	Outer_Ids_G5
outer_ids_g6	Outer_Ids_G6
outer_ids_g6	Outer_Ids_G6
outer_ids_g7	Outer_Ids_G7
outer_ids_g7	Outer_Ids_G7
outer_xlate_miss	Outer_Xlate_Miss
outer_xlate_miss	Outer_Xlate_Miss
infra_encap_src_tep_miss	Infra_Encap_Src_Tep_Miss
infra_encap_src_tep_miss	Infra_Encap_Src_Tep_Miss
infra_encap_type_mismatch	Infra_Encap_Type_Mismatch
infra_encap_type_mismatch	Infra_Encap_Type_Mismatch
uc_tenant_mytep_route_miss	Uc_Tenant_Mytep_Route_Miss
uc_tenant_mytep_route_miss	Uc_Tenant_Mytep_Route_Miss
uc_tenant_mytep_bridge_miss	Uc_Tenant_Mytep_Bridge_Miss
uc_tenant_mytep_bridge_miss	Uc_Tenant_Mytep_Bridge_Miss
arp_nd_ucast_miss	Arp_Nd_Ucast_Miss
arp_nd_ucast_miss	Arp_Nd_Ucast_Miss
mc_dvif_miss	Mc_Dvif_Miss
mc_dvif_miss	Mc_Dvif_Miss
shard_override_vlan_xlate_miss	Shard_Override_Vlan_Xlate_Miss
shard_override_vlan_xlate_miss	Shard_Override_Vlan_Xlate_Miss
fcf_check_failed	Fcf_Check_Failed
fcf_check_failed	Fcf_Check_Failed



ttl_expired	Ttl_Expired
ttl_expired	Ttl_Expired
security_group_deny	Security_Group_Deny
security_group_deny	Security_Group_Deny
mc_iic	Mc_Iic
mc_iic	Mc_Iic
mc_gipo_miss	Mc_Gipo_Miss
mc_gipo_miss	Mc_Gipo_Miss
vif_miss	Vif_Miss
vif_miss	Vif_Miss
missing_vntag	Missing_Vntag
missing_vntag	Missing_Vntag
vlan_xlate_miss	Vlan_Xlate_Miss
vlan_xlate_miss	Vlan_Xlate_Miss
ip_mtu_check_failure	Ip_Mtu_Check_Failure
ip_mtu_check_failure	Ip_Mtu_Check_Failure
uc_rpf_failure	Uc_Rpf_Failure
uc_rpf_failure	Uc_Rpf_Failure
mc_rpf_failure	Mc_Rpf_Failure
mc_rpf_failure	Mc_Rpf_Failure
l3_binding_failure	L3_Binding_Failure
l3_binding_failure	L3_Binding_Failure
nsh_not_allowed	Nsh_Not_Allowed
nsh_not_allowed	Nsh_Not_Allowed
src_vlan_mbr	Src_Vlan_Mbr
src_vlan_mbr	Src_Vlan_Mbr
nsh_src_sw_chk_failed	Nsh_Src_Sw_Chk_Failed
nsh_src_sw_chk_failed	Nsh_Src_Sw_Chk_Failed
l2mp_iic_failed	L2Mp_Iic_Failed

l2mp_iic_failed	L2Mp_Iic_Failed
l2mp_on_ce_bd	L2Mp_On_Ce_Bd
l2mp_on_ce_bd	L2Mp_On_Ce_Bd
l2mp_encap_from_edge	L2Mp_Encap_From_Edge
l2mp_encap_from_edge	L2Mp_Encap_From_Edge
l2mp_noencap_from_core	L2Mp_Noencap_From_Core
l2mp_noencap_from_core	L2Mp_Noencap_From_Core
outer_ttl_expired	Outer_Ttl_Expired
outer_ttl_expired	Outer_Ttl_Expired
incorrect_vntag_type	Incorrect_Vntag_Type
incorrect_vntag_type	Incorrect_Vntag_Type
l2mp_ftag_comp_miss	L2Mp_Ftag_Comp_Miss
l2mp_ftag_comp_miss	L2Mp_Ftag_Comp_Miss
ipv6_uc_link_local_cross_bd	Ipv6_Uc_Link_Local_Cross_Bd
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_svi	Ipv6_Mc_Sa_Local_Da_Global_Svi
ipv6_mc_sa_local_da_global_l3if	Ipv6_Mc_Sa_Local_Da_Global_L3If
ipv6_mc_sa_local_da_global_l3if	Ipv6_Mc_Sa_Local_Da_Global_L3If
routing_disabled	Routing_Disabled
routing_disabled	Routing_Disabled
fc_lookup_miss	Fc_Lookup_Miss
fc_lookup_miss	Fc_Lookup_Miss
no_sgt_from_core	No_Sgt_From_Core
no_sgt_from_core	No_Sgt_From_Core
ip_self_fwd_failure	Ip_Self_Fwd_Failure
ip_self_fwd_failure	Ip_Self_Fwd_Failure
acl_drop	Acl_Drop
acl_drop	Acl_Drop

smac_miss	Smac_Miss
smac_miss	Smac_Miss
secure_mac_move	Secure_Mac_Move
secure_mac_move	Secure_Mac_Move
non_secure_mac	Non_Secure_Mac
non_secure_mac	Non_Secure_Mac
l2_binding_failure	L2_Binding_Failure
l2_binding_failure	L2_Binding_Failure
inner_ids_g0	Inner_Ids_G0
inner_ids_g0	Inner_Ids_G0
inner_ids_g1	Inner_Ids_G1
inner_ids_g1	Inner_Ids_G1
inner_ids_g2	Inner_Ids_G2
inner_ids_g2	Inner_Ids_G2
inner_ids_g3	Inner_Ids_G3
inner_ids_g3	Inner_Ids_G3
inner_ids_g4	Inner_Ids_G4
inner_ids_g4	Inner_Ids_G4
inner_ids_g5	Inner_Ids_G5
inner_ids_g5	Inner_Ids_G5
inner_ids_g6	Inner_Ids_G6
inner_ids_g6	Inner_Ids_G6
inner_ids_g7	Inner_Ids_G7
inner_ids_g7	Inner_Ids_G7
infra_encap_src_tep_drop	Infra_Encap_Src_Tep_Drop
infra_encap_src_tep_drop	Infra_Encap_Src_Tep_Drop
split_horizon_check	Split_Horizon_Check
split_horizon_check	Split_Horizon_Check
mc_fib_miss	Mc_Fib_Miss

mc_fib_miss	Mc_Fib_Miss
mc_l2_miss	Mc_L2_Miss
mc_l2_miss	Mc_L2_Miss
uc_df_check_failure	Uc_Df_Check_Failure
uc_df_check_failure	Uc_Df_Check_Failure
uc_pc_cfg_table_drop	Uc_Pc_Cfg_Table_Drop
uc_pc_cfg_table_drop	Uc_Pc_Cfg_Table_Drop
illegal_expl_null	Illegal_Expl_Null
illegal_expl_null	Illegal_Expl_Null
mpls_lookup_miss	Mpls_Lookup_Miss
mpls_lookup_miss	Mpls_Lookup_Miss
outer_cbl_check	Outer_Cbl_Check
outer_cbl_check	Outer_Cbl_Check
null_shard_with_e_bit_set	Null_Shard_With_E_Bit_Set
null_shard_with_e_bit_set	Null_Shard_With_E_Bit_Set
lb_drop	Lb_Drop
lb_drop	Lb_Drop
nat_fragment	Nat_Fragment
nat_fragment	Nat_Fragment
illegal_dce_pkt	Illegal_Dce_Pkt
illegal_dce_pkt	Illegal_Dce_Pkt
dci_vnid_xlate_miss	Dci_Vnid_Xlate_Miss
dci_vnid_xlate_miss	Dci_Vnid_Xlate_Miss
dci_sclass_xlate_miss	Dci_Sclass_Xlate_Miss
dci_sclass_xlate_miss	Dci_Sclass_Xlate_Miss
dci_2nd_uc_transit	Dci_2nd_Uc_Transit
dci_2nd_uc_transit	Dci_2nd_Uc_Transit

Command Mode

- /exec/elamtah/outsel

## set evpn gateway-ip

[no] set evpn gateway-ip { <addr> }

### Syntax Description

no	(Optional) Negate a command or set its defaults
set	Set values in destination routing protocol
evpn	Set BGP EVPN Routes
gateway-ip	Set gateway IP for type 5 EVPN routes
addr	Gateway IP address

### 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)
name	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
ext-comm-gen-trans	Extcommunity number aa4:nn format
ext-comm-gen-nontrans	Extcommunity number aa4:nn format
ext-comm-gen-trans	(Optional) <ext-comm-gen-nontrans>

### Command Mode

- /exec/configure/route-map

## set extcommunity color

```
{ set extcommunity color <color-value> } | { no set extcommunity color [ <color-value> ] }
```

### Syntax Description

no	Negate a command or set its defaults
set	Set values in destination routing protocol
extcommunity	Set BGP extcommunity attribute
color	Color Extended Community
color-value	Color Community value

### 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
comm-id	Community ID
cost-value	Cost Community value
comm-id	(Optional) <cost-value>

### Command Mode

- /exec/configure/route-map

## set extcommunity evpn rmac

```
{ set extcommunity evpn rmac <mac-addr> } | { no set extcommunity evpn rmac <mac-addr> }
```

### Syntax Description

no	Negate a command or set its defaults
set	Set values in destination routing protocol
extcommunity	Set BGP extcommunity attribute
evpn	EVPN Extended Community
rmac	Router MAC
mac-addr	MAC address

### 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
ext-comm-rt-aa2nn4	Extcommunity number
ext-comm-rt-aa4nn2	Extcommunity number
ext-comm-rt-aa2nn4	(Optional) <ext-comm-rt-aa4nn2>

### Command Mode

- /exec/configure/route-map

## 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 ieth

```
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 <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> } +
```

### Syntax Description

set	Setup Trigger
ieth	All iETH Hdr Fields
sof	Start of Frame
sof_val	Start of Frame
hdr_type	Header Type
hdr_type	Header Type
ext_hd	Ext hd
ext_hd	Ext hd
opcode	Opcode
opcode	Opcode
src_idx	Source Index
src_idx	Source Index
dst_idx	Destination Index
dst_idx	Destination Index
src_chip	Source Chip
src_chip	Source Chip
src_port	Source Port
src_port	Source Port
dst_chip	Destination Chip
dst_chip	Destination Chip
dst_port	Destination Port
dst_port	Destination Port

outer_bd	Outer BD
outer_bd	Outer BD
bd	BD
bd	BD
traceroute	Trace Route
traceroute	Trace Route
dont_lrn	Don't Learn
dont_lrn	Don't Learn
span	Span
span	Span
alt_if_prof	Alternate IF Profile
alt_if_prof	Alternate IF Profile
ttl_bypass	TTL Bypass
ttl_bypass	TTL Bypass
src_is_tunl	Source is Tunnel
src_is_tunl	Source is Tunnel
dst_is_tunl	Destination is Tunnel
dst_is_tunl	Destination is Tunnel
l2_tunl	L2 Tunnel
l2_tunl	L2 Tunnel
sup_tx	Sup Tx
sup_tx	Sup Tx
sup_code	Sup Code
sup_code	Sup Code
cos_de	Cos De
cos_de	Cos De
tclass	Tclass
tclass	Tclass
src_is_peer	Source is Peer

src_is_peer	Source is Peer
pkt_hash	Packet Hash
pkt_hash	Packet Hash

## Command Mode

- /exec/elamtah/insel10

## set ieth

```
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 <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> } +
```

### Syntax Description

set	Setup Trigger
ieth	All iETH Hdr Fields
sof	Start of Frame
sof_val	Start of Frame
hdr_type	Header Type
hdr_type	Header Type
ext_hd	Ext hd
ext_hd	Ext hd
opcode	Opcode
opcode	Opcode
src_idx	Source Index
src_idx	Source Index
dst_idx	Destination Index
dst_idx	Destination Index
src_chip	Source Chip
src_chip	Source Chip
src_port	Source Port
src_port	Source Port
dst_chip	Destination Chip
dst_chip	Destination Chip
dst_port	Destination Port
dst_port	Destination Port



outer_bd	Outer BD
outer_bd	Outer BD
bd	BD
bd	BD
traceroute	Trace Route
traceroute	Trace Route
dont_lrn	Don't Learn
dont_lrn	Don't Learn
span	Span
span	Span
alt_if_prof	Alternate IF Profile
alt_if_prof	Alternate IF Profile
tth_bypass	TTL Bypass
tth_bypass	TTL Bypass
src_is_tunl	Source is Tunnel
src_is_tunl	Source is Tunnel
dst_is_tunl	Destination is Tunnel
dst_is_tunl	Destination is Tunnel
l2_tunl	L2 Tunnel
l2_tunl	L2 Tunnel
sup_tx	Sup Tx
sup_tx	Sup Tx
sup_code	Sup Code
sup_code	Sup Code
cos_de	Cos De
cos_de	Cos De
tclass	Tclass
tclass	Tclass
src_is_peer	Source is Peer

src_is_peer	Source is Peer
pkt_hash	Packet Hash
pkt_hash	Packet Hash

## Command Mode

- /exec/elamtaH/inse18

## set inner arp

```
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> } +
```

### Syntax Description

set	Setup Trigger
inner	Mask and Match By Inner Packet Fields
arp	ARP Fields
target-ip-addr	ARP Target IP Address
tipaddr	ARP Target IP Address
target-mac-addr	ARP Target MAC Address
tmac	ARP Target MAC Address
source-ip-addr	ARP Source IP Address
sipaddr	ARP Source IP Address
source-mac-addr	ARP Source MAC Address
smac	ARP Source MAC Address
opcode	ARP Opcode
opcode_val	ARP Opcode
prot-addr-len	ARP Protocol Address Length
prot_addr_len	ARP Protocol Address Length
hw-addr-len	ARP Hardware Address Length
hw_addr_len	ARP Hardware Address Length
protocol-type	ARP Protocol Type
prot_type	ARP Protocol Type
hardware-type	ARP Hardware Type
hw_type	ARP Hardware Type
ether-type	ARP Ether Type - 0x0806 -> ARP 0x8035 -> RARP
etype	ARP Ether Type - 0x0806 -> ARP 0x8035 -> RARP
payload-len	ARP Payload Length

pyld_len	ARP Payload Length
----------	--------------------

## Command Mode

- /exec/elamta/insel7

## 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
l3_type	(Optional) L3 Packet Type
pyld-len	(Optional) Payload Length
pyld_len	(Optional) Payload Length
v6-vld	(Optional) IPv6 Valid Information
v6_vld	(Optional) IPv6 Valid Information
version	(Optional) Version
ver	(Optional) Version
header-len	(Optional) Header Length
hlen	(Optional) Header Length
dscp	(Optional) Diff. Serv. Code Point
dscp_val	(Optional) Diff. Serv. Code Point
ecn	(Optional) Explicit Congestion Ntn
ecn_val	(Optional) Explicit Congestion Ntn
packet-len	(Optional) Packet Total Length
pkt_len	(Optional) Packet Total Length
more-frags	(Optional) More Fragments Available
mf	(Optional) More Fragments Available
fragment-off	(Optional) Fragments Offset
fragoff	(Optional) Fragments Offset

ttl	(Optional) Time to Live
ttl_val	(Optional) Time to Live
next-protocol	(Optional) Next(L4) Protocol
nproto	(Optional) Next(L4) Protocol
checksum	(Optional) Checksum
csum	(Optional) Checksum
src_ip	(Optional) Source IP Address
sip	(Optional) Source IP Address
dst_ip	(Optional) Destination IP Address
dip	(Optional) Destination IP Address

## Command Mode

- /exec/elanms/sel6

## set inner ipv4

```
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> } +
```

### Syntax Description

set	Setup Trigger
inner	Mask and Match By Inner Packet Fields
ipv4	IPv4 Fields
pyld-len	Payload Length
pyld_len	Payload Length
version	Version
ver	Version
header-len	Header Length
hlen	Header Length
dscp	Diff. Serv. Code Point
dscp_val	Diff. Serv. Code Point
ecn	Explicit Congestion Ntn
ecn_val	Explicit Congestion Ntn
packet-len	Packet Total Length
pkt_len	Packet Total Length
more-frags	More Fragments Available
mf	More Fragments Available
fragment-off	Fragments Offset
fragoff	Fragments Offset
ttl	Time to Live
ttl_val	Time to Live
next-protocol	Next Protocol
nproto	Next Protocol
checksum	Checksum

csum	Checksum
src_ip	Source IP Address
sip	Source IP Address
dst_ip	Destination IP Address
dip	Destination IP Address

## Command Mode

- /exec/elamtah/insel7



## 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
l3_type	(Optional) L3 Packet Type
pyld-len	(Optional) Payload Length
pyld_len	(Optional) Payload Length
v6-vld	(Optional) IPv6 Valid Information
v6_vld	(Optional) IPv6 Valid Information
version	(Optional) Version
ver	(Optional) Version
header-len	(Optional) Header Length
hlen	(Optional) Header Length
dscp	(Optional) Diff. Serv. Code Point
dscp_val	(Optional) Diff. Serv. Code Point
ecn	(Optional) Explicit Congestion Ntn
ecn_val	(Optional) Explicit Congestion Ntn
packet-len	(Optional) Packet Total Length
pkt_len	(Optional) Packet Total Length
more-frags	(Optional) More Fragments Available
mf	(Optional) More Fragments Available
fragment-off	(Optional) Fragments Offset
fragoff	(Optional) Fragments Offset
ttl	(Optional) Time to Live

ttl_val	(Optional) Time to Live
next-protocol	(Optional) Next(L4) Protocol
nproto	(Optional) Next(L4) Protocol
checksum	(Optional) Checksum
csum	(Optional) Checksum
src_ip	(Optional) Source IP Address
sip	(Optional) Source IP Address
dst_ip	(Optional) Destination IP Address
dip	(Optional) Destination IP Address

## Command Mode

- /exec/elanms/sel4

## set inner ipv6 src\_ip

```
set inner ipv6 { src_ip <src_ip> | dst_ip <dst_ip> } +
```

Syntax Description

set	Setup Trigger
inner	Mask and Match By Inner Packet Fields
ipv6	IPv6 Fields
src_ip	Source IP Address
dst_ip	Destination IP Address

Command Mode

- /exec/elamtah/insel7

## 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	SNAP Header Information Valid
snap_vld	SNAP Header Information Valid
cntag_vld	CNTag Information Valid
cntag_vld	CNTag Information Valid
qtag_vld	VLAN Tag Information Valid
qtag_vld	VLAN Tag Information Valid
vlan	VLAN Id (Present only in case of FEX)
vlan_id	VLAN Id
cos	Class of Service
cos_val	Class of Service Type
cfi	CFI Setting
cfi_vld	CFI Setting Valid
vntag_vld	VNTAG Information Valid
vntag_vld	VNTAG Information Valid
vntag_svif	VNTAG Source vif
vntag_svif	VNTAG Source vif
vntag_dvif	VNTAG Destination vif
vntag_dvif	VNTAG Destination vif
vntag_looped	VNTAG Header Looped Valid
vntag_loop	VNTAG Header Looped Valid
vntag_pointer	VNTAG Header Pointer Valid

vntag_p	VNTAG Header Pointer Valid
src_mac	Source MAC Address
smac	Source MAC Address Value
dst_mac	Destination MAC Address
dmac	Destination MAC Address Value

## Command Mode

- /exec/elamtah/insel7

## 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
snap_vld	(Optional) SNAP Header Information Valid
cntag_vld	(Optional) CNTag Information Valid
cntag_vld	(Optional) CNTag Information Valid
qtag_vld	(Optional) VLAN Tag Information Valid
qtag_vld	(Optional) VLAN Tag Information Valid
vlan	(Optional) VLAN Id (Present only in case of FEX)
vlan_id	(Optional) VLAN Id
cos	(Optional) Class of Service
cos_val	(Optional) Class of Service Type
cfi	(Optional) CFI Setting
cfi_vld	(Optional) CFI Setting Valid
vntag_vld	(Optional) VNTAG Information Valid
vntag_vld	(Optional) VNTAG Information Valid
vntag_svif	(Optional) VNTAG Source vif
vntag_svif	(Optional) VNTAG Source vif
vntag_dvif	(Optional) VNTAG Destination vif
vntag_dvif	(Optional) VNTAG Destination vif
vntag_looped	(Optional) VNTAG Header Looped Valid
vntag_loop	(Optional) VNTAG Header Looped Valid

vntag_pointer	(Optional) VNTAG Header Pointer Valid
vntag_p	(Optional) VNTAG Header Pointer Valid
src_mac	(Optional) Source MAC Address
smac	(Optional) Source MAC Address Value
dst_mac	(Optional) Destination MAC Address
dmac	(Optional) Destination MAC Address Value

## Command Mode

- /exec/elanms/sel5

## 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
snap_vld	(Optional) SNAP Header Information Valid
cntag_vld	(Optional) CNTag Information Valid
cntag_vld	(Optional) CNTag Information Valid
qtag_vld	(Optional) VLAN Tag Information Valid
qtag_vld	(Optional) VLAN Tag Information Valid
vlan	(Optional) VLAN Id (Present only in case of FEX)
vlan_id	(Optional) VLAN Id
cos	(Optional) Class of Service
cos_val	(Optional) Class of Service Type
cfi	(Optional) CFI Setting
cfi_vld	(Optional) CFI Setting Valid
vntag_vld	(Optional) VNTAG Information Valid
vntag_vld	(Optional) VNTAG Information Valid
vntag_svif	(Optional) VNTAG Source vif
vntag_svif	(Optional) VNTAG Source vif
vntag_dvif	(Optional) VNTAG Destination vif
vntag_dvif	(Optional) VNTAG Destination vif
vntag_looped	(Optional) VNTAG Header Looped Valid
vntag_loop	(Optional) VNTAG Header Looped Valid
vntag_pointer	(Optional) VNTAG Header Pointer Valid



vntag_p	(Optional) VNTAG Header Pointer Valid
src_mac	(Optional) Source MAC Address
smac	(Optional) Source MAC Address Value
dst_mac	(Optional) Destination MAC Address
dmac	(Optional) Destination MAC Address Value

## Command Mode

- /exec/elanms/sel4

## 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
hg2_vlan	(Optional) High Gig2 VLAN Tag Information
hg2_ppd_type	(Optional) High Gig2 Packet Processing Descriptor
hg2_ppd_type	(Optional) High Gig2 Packet Processing Descriptor
hg2_mirror	(Optional) High Gig2 Packet Mirror Information
hg2_mirror	(Optional) High Gig2 Packet Mirror Information
hg2_opcode	(Optional) High Gig2 Packet Type
hg2_opcode	(Optional) High Gig2 Packet Type
hg2_dstpid	(Optional) High Gig2 Destination Port ID
hg2_dpid	(Optional) High Gig2 Destination Port ID
hg2_dstmod	(Optional) High Gig2 Destination Module ID
hg2_dmod	(Optional) High Gig2 Destination Module ID
hg2_srcpid	(Optional) High Gig2 Source Port ID
hg2_spid	(Optional) High Gig2 Source Port ID
hg2_srcmod	(Optional) High Gig2 Souce Module ID
hg2_smod	(Optional) High Gig2 Souce Module ID
hg2_l3vld	(Optional) High Gig2 Packet L3 Switched
hg2_l3_vld	(Optional) High Gig2 Packet L3 Switched

hg2_tc	(Optional) High Gig2 Packet Traffic Class
hg2_tc	(Optional) High Gig2 Packet Traffic Class
hg2_dp	(Optional) High Gig2 Drop Precedence
hg2_dp	(Optional) High Gig2 Drop Precedence
hg2_mcast	(Optional) High Gig2 MultiCast Forwarding Information
hg2_mcast_vld	(Optional) High Gig2 Multicast Forwarding Information
hg2-vld	(Optional) High Gig2 Valid Information
hg2_vld	(Optional) High Gig2 Valid Information
hg2-cos	(Optional) High Gig2 CoS Information
hg2_cos	(Optional) High Gig2 CoS Information

## Command Mode

- /exec/elamns/sel5

## 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
hg2_vlan	(Optional) High Gig2 VLAN Tag Information
hg2_ppd_type	(Optional) High Gig2 Packet Processing Descriptor
hg2_ppd_type	(Optional) High Gig2 Packet Processing Descriptor
hg2_mirror	(Optional) High Gig2 Packet Mirror Information
hg2_mirror	(Optional) High Gig2 Packet Mirror Information
hg2_opcode	(Optional) High Gig2 Packet Type
hg2_opcode	(Optional) High Gig2 Packet Type
hg2_dstpid	(Optional) High Gig2 Destination Port ID
hg2_dpid	(Optional) High Gig2 Destination Port ID
hg2_dstmod	(Optional) High Gig2 Destination Module ID
hg2_dmod	(Optional) High Gig2 Destination Module ID
hg2_srcpid	(Optional) High Gig2 Source Port ID
hg2_spid	(Optional) High Gig2 Source Port ID
hg2_srcmod	(Optional) High Gig2 Souce Module ID
hg2_smod	(Optional) High Gig2 Souce Module ID
hg2_l3vld	(Optional) High Gig2 Packet L3 Switched
hg2_l3_vld	(Optional) High Gig2 Packet L3 Switched
hg2_tc	(Optional) High Gig2 Packet Traffic Class

hg2_tc	(Optional) High Gig2 Packet Traffic Class
hg2_dp	(Optional) High Gig2 Drop Precedence
hg2_dp	(Optional) High Gig2 Drop Precedence
hg2_mcast	(Optional) High Gig2 MultiCast Forwarding Information
hg2_mcast_vld	(Optional) High Gig2 Multicast Forwarding Information
hg2-vld	(Optional) High Gig2 Valid Information
hg2_vld	(Optional) High Gig2 Valid Information
hg2-cos	(Optional) High Gig2 CoS Information
hg2_cos	(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
sport	(Optional) Source Port
dst-port	(Optional) Destination Port Information
dport	(Optional) Destination Port
packet-len	(Optional) Packet Length
pkt_len	(Optional) Packet Length
checksum	(Optional) Checksum
csum	(Optional) Checksum
flags	(Optional) L4 Flags
flag_val	(Optional) L4 Flags

### Command Mode

- /exec/elanms/set4

## set inner l4

```
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> } +
```

### Syntax Description

set	Setup Trigger
inner	Mask and Match By Inner Packet Fields
l4	L4 Fields
l4-type	L4 Type - 0:TCP 1:UDP 2:IVXLAN 3:VXLAN 4:NVGRE 7:ND
l4_type	L4 Type Value - 0:TCP 1:UDP 2:IVXLAN 3:VXLAN 4:NVGRE 7:ND
src-port	Source Port Information
sport	Source Port
dst-port	Destination Port Information
dport	Destination Port
packet-len	Packet Length
pkt_len	Packet Length
checksum	Checksum
csum	Checksum
flags	L4 Flags
flag_val	L4 Flags
tn-nonce	Nonce valid
tn_nonce	Nonce valid
tn-lsb	Lsb valid
tn_lsb	Lsb valid
tn-nonce-info	Nonce Info
tn_nonce_info	Nonce Info
tn-lsb-info	Lsb Info

tn_lsb_info	Lsb Info
vnid	Virtual Network Id
vnid_val	Virtual Network Id
nd-type	ND Type
nd_type	ND Type
nd-code	ND Code
nd_code	ND Code
nd-flags	ND Flags
nd_flags	ND Flags
nd-ip	ND IP
nonce-lb	Nonce Load Balance
nonce_lb	Nonce Load Balance
nonce-dl	Nonce Don't Learn
nonce_dl	Nonce Don't Learn
nonce-e	Nonce Exception
nonce_e	Nonce Exception
nonce-sp	Nonce Src Policy applied
nonce_sp	Nonce Src Policy applied
nonce-dp	Nonce Dst Policy applied
nonce_dp	Nonce Dst Policy applied
nonce-dre	Nonce Congestion Est.
nonce_dre	Nonce Congestion Est.
sclass	Nonce Src Class
sclass	Nonce Src Class
lsb-m	Lsb Marker
lsb_m	Lsb Marker
lsb-lb-tag	Lsb LB Tag
lsb_lb_tag	Lsb LB Tag
lsb-lb-metric	Lsb LB Metric



lsb_lb_metric	Lsb LB Metric
---------------	---------------

## Command Mode

- /exec/elamtah/inse17

## 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
sport	(Optional) Source Port
dst-port	(Optional) Destination Port Information
dport	(Optional) Destination Port
packet-len	(Optional) Packet Length
pkt_len	(Optional) Packet Length
checksum	(Optional) Checksum
csum	(Optional) Checksum
flags	(Optional) L4 Flags
flag_val	(Optional) L4 Flags

### Command Mode

- /exec/elanms/se17

## set inner mpls

```
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> } +
```

### Syntax Description

set	Setup Trigger
inner	Mask and Match By Inner Packet Fields
mpls	MPLS Fields
l3-type	L3 Type - 0:CE 1:FC 2:IPv4 3:IPv6 4:ARP 5:MPLS
l3_type	L3 Type Value - 0:CE 1:FC 2:IPv4 3:IPv6 4:ARP 5:MPLS
label0_lbl	MPLS Label0 Label value
label0_lbl	MPLS Label0 Label value
label0_ttl	MPLS Label0 Time to Live
label0_ttl	MPLS Label0 Time to Live
label0_sbit	MPLS Label0 End of Stack
label0_sbit	MPLS Label0 End of Stack
label1_lbl	MPLS Label1 Label value
label1_lbl	MPLS Label1 Label value
label1_ttl	MPLS Label1 Time to Live
label1_ttl	MPLS Label1 Time to Live
label1_sbit	MPLS Label1 End of Stack
label1_sbit	MPLS Label1 End of Stack
label2_lbl	MPLS Label2 Label value
label2_lbl	MPLS Label2 Label value
label2_ttl	MPLS Label2 Time to Live
label2_ttl	MPLS Label2 Time to Live
label2_sbit	MPLS Label2 End of Stack
label2_sbit	MPLS Label2 End of Stack

label3_lbl	MPLS Label3 Label value
label3_lbl	MPLS Label3 Label value
label3_ttl	MPLS Label3 Time to Live
label3_ttl	MPLS Label3 Time to Live
label3_sbit	MPLS Label3 End of Stack
label3_sbit	MPLS Label3 End of Stack
label4_lbl	MPLS Label4 Label value
label4_lbl	MPLS Label4 Label value
label4_ttl	MPLS Label4 Time to Live
label4_ttl	MPLS Label4 Time to Live
label4_sbit	MPLS Label4 End of Stack
label4_sbit	MPLS Label4 End of Stack
label5_lbl	MPLS Label5 Label value
label5_lbl	MPLS Label5 Label value
label5_ttl	MPLS Label5 Time to Live
label5_ttl	MPLS Label5 Time to Live
label5_sbit	MPLS Label5 End of Stack
label5_sbit	MPLS Label5 End of Stack

## Command Mode

- /exec/elamtah/insel7

# set interface

[no] set interface <iiface>

Syntax Description

no	(Optional) Negate a command or set its defaults
set	Set values in destination routing protocol
interface	Output interface
iface	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
val	The host search interval value in seconds (0 to disable)

### 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
val	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
name	Name of prefix list

Command Mode

- /exec/configure/route-map



## set ip default next-hop

[no] set ip 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
ip	Configure IP features
recursive	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
default	Set default next-hop
next-hop	Next hop address
addr1	IP address of next hop
load-share	Enables load sharing

### Command Mode

- /exec/configure/route-map

## set ip default next-hop verify-availability

[no] set ip 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
ip	Configure IP features
default	Set default next-hop
next-hop	Next hop address
verify-availability	Verify the reachability of the tracked object
addr	IP address of next hop
track	(Optional) The tracking method is track
object_id	(Optional) Object number that the tracking subsystem is tracking
load-share	(Optional) Enables load sharing

### Command Mode

- /exec/configure/route-map

## set ip next-hop

```
[no] set ip next-hop [ recursive ] { [ <addr1> + ] { { [ drop-on-fail ] [ load-share ] [ force-order ] } | { [ drop-on-fail ] [ force-order ] [ load-share ] } | { [ load-share ] [ drop-on-fail ] [ force-order ] } | { [ load-share ] [ force-order ] [ drop-on-fail ] } | { [ force-order ] [ drop-on-fail ] [ load-share ] } | { [ force-order ] [ load-share ] [ drop-on-fail ] } } }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
set	Set values in destination routing protocol
ip	Configure IP features
recursive	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
next-hop	Next hop address
addr1	(Optional) IP address of next hop
load-share	(Optional) Enables load sharing
force-order	(Optional) Maintains next-hop order as per cli config
drop-on-fail	(Optional) Drop packets when next-hop unreachable

### 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 redistrib-unchanged

[no] set ip next-hop redistrib-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
redistrib-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
addr	IP address of next hop
track	(Optional) The tracking method is track
object_id	(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
value	Precedence value
name	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
name	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	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
default	Set default next-hop
next-hop	Next hop address
load-share	Enables load sharing
addr1	

### 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
object_id	(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 { [ <addr> + ] { { [ drop-on-fail ] [ load-share ] [ force-order ] } | { [ drop-on-fail ] [ force-order ] [ load-share ] } | { [ load-share ] [ drop-on-fail ] [ force-order ] } | { [ load-share ] [ force-order ] [ drop-on-fail ] } | { [ force-order ] [ drop-on-fail ] [ load-share ] } | { [ force-order ] [ load-share ] [ drop-on-fail ] } } }
```

### 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	(Optional) Enables load sharing
force-order	(Optional) Enables Next-hop ordering as per cli
drop-on-fail	(Optional) Drop packets when next-hop unreachable
addr	(Optional)

### 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
object_id	(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
value	Precedence value
name	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
value	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
pref	Preference value

### 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
metric0	[+/-] Metric value or Bandwidth in Kbits per second
metric1	(Optional) IGRP delay metric
metric2	(Optional) IGRP reliability metric where 255 is 100% reliable
metric3	(Optional) IGRP Effective bandwidth metric (Loading) 255 is 100%
metric4	(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 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 arp

```
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> } +
```

### Syntax Description

set	Setup Trigger
outer	Mask and Match By Outer Packet Fields
arp	ARP Fields
target-ip-addr	ARP Target IP Address
tipaddr	ARP Target IP Address
target-mac-addr	ARP Target MAC Address
tmac	ARP Target MAC Address
source-ip-addr	ARP Source IP Address
sipaddr	ARP Source IP Address
source-mac-addr	ARP Source MAC Address
smac	ARP Source MAC Address
opcode	ARP Opcode
opcode_val	ARP Opcode
prot-addr-len	ARP Protocol Address Length
prot_addr_len	ARP Protocol Address Length
hw-addr-len	ARP Hardware Address Length
hw_addr_len	ARP Hardware Address Length
protocol-type	ARP Protocol Type
prot_type	ARP Protocol Type
hardware-type	ARP Hardware Type
hw_type	ARP Hardware Type
ether-type	ARP Ether Type - 0x0806 -> ARP 0x8035 -> RARP
etype	ARP Ether Type - 0x0806 -> ARP 0x8035 -> RARP
payload-len	ARP Payload Length

pyld_len	ARP Payload Length
----------	--------------------

## Command Mode

- /exec/elamta/insel6

## set outer arp

```
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> } +
```

### Syntax Description

set	Setup Trigger
outer	Mask and Match By Outer Packet Fields
inner	Mask and Match By Inner Packet Fields
arp	ARP Fields
target-ip-addr	ARP Target IP Address
tipaddr	ARP Target IP Address
target-mac-addr	ARP Target MAC Address
tmac	ARP Target MAC Address
source-ip-addr	ARP Source IP Address
sipaddr	ARP Source IP Address
source-mac-addr	ARP Source MAC Address
smac	ARP Source MAC Address
opcode	ARP Opcode
opcode_val	ARP Opcode
prot-addr-len	ARP Protocol Address Length
prot_addr_len	ARP Protocol Address Length
hw-addr-len	ARP Hardware Address Length
hw_addr_len	ARP Hardware Address Length
protocol-type	ARP Protocol Type
prot_type	ARP Protocol Type
hardware-type	ARP Hardware Type
hw_type	ARP Hardware Type
ether-type	ARP Ether Type - 0x0806 -> ARP 0x8035 -> RARP
etype	ARP Ether Type - 0x0806 -> ARP 0x8035 -> RARP

payload-len	ARP Payload Length
pyld_len	ARP Payload Length

## Command Mode

- /exec/elamtah/inse19

## set outer fcoe

```
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> } +
```

### Syntax Description

set	Setup Trigger
outer	Mask and Match By Outer Packet Fields
fcoe	FCoE Fields
pyld-len	Payload Length
pyld_len	Payload Length
ether-type	FCoE Ether Type - 0x8906
etype	FCoE Ether Type - 0x8906
esof	ESOF
esof	ESOF Value
r_ctl	R_CTL
r_ctl	R_CTL value
d_id	D_ID
d_id	D_ID value
cs_ctl	CS_CTL
cs_ctl	CS_CTL value
s_id	S_ID
s_id	S_ID value
fc_type	FC_TYPE
fc_type	FC_TYPE value
f_ctl	F_CTL
f_ctl	F_CTL value
df_ctl	DF_CTL
df_ctl	DF_CTL value

ox_id	OxID
ox_id	OxID value
rx_id	RxID
rx_id	RxID value
pyld0	First 4 bytes of payload
pyld0	First 4 bytes of payload value
pyld1	Second 4 bytes of payload
pyld1	Second 4 bytes of payload value
pyld2	Third 4 bytes of payload
pyld2	Third 4 bytes of payload value
pyld3	Fourth 4 bytes of payload
pyld3	Fourth 4 bytes of payload value
vft_vld	VFT_VLD
vft_vld	VFT_VLD value
vft_type	VFT_TYPE
vft_type	VFT_TYPE value
vft_prio	VFT_PRIO
vft_prio	VFT_PRIO value
vft_vfid	VFT_VFID
vft_vfid	VFT_VFID value
vft_hopct	VFT_HOPCT
vft_hopct	VFT_HOPCT value

## Command Mode

- /exec/elamtah/insel6

## set outer ipv4

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> } +

### Syntax Description

set	Setup Trigger
outer	Mask and Match By Outer Packet Fields
inner	Mask and Match By Inner Packet Fields
ipv4	IPv4 Fields
pyld-len	Payload Length
pyld_len	Payload Length
version	Version
ver	Version
header-len	Header Length
hlen	Header Length
dscp	Diff. Serv. Code Point
dscp_val	Diff. Serv. Code Point
ecn	Explicit Congestion Ntn
ecn_val	Explicit Congestion Ntn
packet-len	Packet Total Length
pkt_len	Packet Total Length
more- frags	More Fragments Available
mf	More Fragments Available
fragment-off	Fragments Offset
fragoff	Fragments Offset
ttl	Time to Live
ttl_val	Time to Live
next-protocol	Next Protocol
nproto	Next Protocol

checksum	Checksum
csum	Checksum
src_ip	Source IP Address
sip	Source IP Address
dst_ip	Destination IP Address
dip	Destination IP Address

## Command Mode

- /exec/elamtah/inse19



## set outer ipv4

```
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> } +
```

### Syntax Description

set	Setup Trigger
outer	Mask and Match By Outer Packet Fields
ipv4	IPv4 Fields
pyld-len	Payload Length
pyld_len	Payload Length
version	Version
ver	Version
header-len	Header Length
hlen	Header Length
dscp	Diff. Serv. Code Point
dscp_val	Diff. Serv. Code Point
ecn	Explicit Congestion Ntnf
ecn_val	Explicit Congestion Ntnf
packet-len	Packet Total Length
pkt_len	Packet Total Length
more-frags	More Fragments Available
mf	More Fragments Available
fragment-off	Fragments Offset
fragoff	Fragments Offset
ttl	Time to Live
ttl_val	Time to Live
next-protocol	Next Protocol
nproto	Next Protocol
checksum	Checksum

csum	Checksum
src_ip	Source IP Address
sip	Source IP Address
dst_ip	Destination IP Address
dip	Destination IP Address

## Command Mode

- /exec/elamtah/insel6

## 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 <sip> | dst_ip <dip> } ] +
```

### Syntax Description

set	Setup Trigger
outer	Mask and Match By Outer Packet Fields
ipv4	IPv4 Fields
l3-type	(Optional) L3 Packet Type
l3_type	(Optional) L3 Packet Type
pyld-len	(Optional) Payload Length
pyld_len	(Optional) Payload Length
v6-vld	(Optional) IPv6 Valid Information
v6_vld	(Optional) IPv6 Valid Information
version	(Optional) Version
ver	(Optional) Version
header-len	(Optional) Header Length
hlen	(Optional) Header Length
dscp	(Optional) Diff. Serv. Code Point
dscp_val	(Optional) Diff. Serv. Code Point
ecn	(Optional) Explicit Congestion Ntn
ecn_val	(Optional) Explicit Congestion Ntn
packet-len	(Optional) Packet Total Length
pkt_len	(Optional) Packet Total Length
more-frags	(Optional) More Fragments Available
mf	(Optional) More Fragments Available
fragment-off	(Optional) Fragments Offset
fragoff	(Optional) Fragments Offset
ttl	(Optional) Time to Live

ttl_val	(Optional) Time to Live
next-protocol	(Optional) Next(L4) Protocol
nproto	(Optional) Next(L4) Protocol
checksum	(Optional) Checksum
csum	(Optional) Checksum
src_ip	(Optional) Source IP Address
sip	(Optional) Source IP Address
dst_ip	(Optional) Destination IP Address
dip	(Optional) Destination IP Address

## Command Mode

- /exec/elanms/sel3

## set outer ipv6 src\_ip

set { outer | inner } ipv6 { src\_ip <src\_ip> | dst\_ip <dst\_ip> } +

Syntax Description

set	Setup Trigger
outer	Mask and Match By Outer Packet Fields
inner	Mask and Match By Inner Packet Fields
ipv6	IPv6 Fields
src_ip	Source IP Address
dst_ip	Destination IP Address

Command Mode

- /exec/elamtah/insel9

## set outer ipv6 src\_ip

set outer ipv6 { src\_ip <sip> | dst\_ip <dip> } +

Syntax Description

set	Setup Trigger
outer	Mask and Match By Outer Packet Fields
ipv6	IPv6 Fields
src_ip	Source IP Address
dst_ip	Destination IP Address

Command Mode

- /exec/elamtah/insel6

## 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
snap_vld	(Optional) SNAP Header Information Valid
cntag_vld	(Optional) CNTag Information Valid
cntag_vld	(Optional) CNTag Information Valid
qtag_vld	(Optional) VLAN Tag Information Valid
qtag_vld	(Optional) VLAN Tag Information Valid
vlan	(Optional) VLAN Id (Present only in case of FEX)
vlan_id	(Optional) VLAN Id
cos	(Optional) Class of Service
cos_val	(Optional) Class of Service Type
cfi	(Optional) CFI Setting
cfi_vld	(Optional) CFI Setting Valid
vntag_vld	(Optional) VNTAG Information Valid
vntag_vld	(Optional) VNTAG Information Valid
vntag_svif	(Optional) VNTAG Source vif
vntag_svif	(Optional) VNTAG Source vif
vntag_dvif	(Optional) VNTAG Destination vif
vntag_dvif	(Optional) VNTAG Destination vif
vntag_looped	(Optional) VNTAG Header Looped Valid
vntag_loop	(Optional) VNTAG Header Looped Valid
vntag_pointer	(Optional) VNTAG Header Pointer Valid

vntag_p	(Optional) VNTAG Header Pointer Valid
src_mac	(Optional) Source MAC Address
smac	(Optional) Source MAC Address Value
dst_mac	(Optional) Destination MAC Address
dmac	(Optional) Destination MAC Address Value

## Command Mode

- /exec/elanms/se13



## 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	SNAP Header Information Valid
snap_vld	SNAP Header Information Valid
cntag_vld	CNTag Information Valid
cntag_vld	CNTag Information Valid
qtag_vld	VLAN Tag Information Valid
qtag_vld	VLAN Tag Information Valid
vlan	VLAN Id (Present only in case of FEX)
vlan_id	VLAN Id
cos	Class of Service
cos_val	Class of Service Type
cfi	CFI Setting
cfi_vld	CFI Setting Valid
vntag_vld	VNTAG Information Valid
vntag_vld	VNTAG Information Valid
vntag_svif	VNTAG Source vif
vntag_svif	VNTAG Source vif
vntag_dvif	VNTAG Destination vif
vntag_dvif	VNTAG Destination vif
vntag_looped	VNTAG Header Looped Valid
vntag_loop	VNTAG Header Looped Valid
vntag_pointer	VNTAG Header Pointer Valid

vntag_p	VNTAG Header Pointer Valid
src_mac	Source MAC Address
smac	Source MAC Address Value
dst_mac	Destination MAC Address
dmac	Destination MAC Address Value

## Command Mode

- /exec/elamta/insel6

## set outer l2

```
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> } +
```

### Syntax Description

set	Setup Trigger
outer	Mask and Match By Outer Packet Fields
inner	Mask and Match By Inner Packet Fields
l2	All Layer 2 Fields
snap_vld	SNAP Header Information Valid
snap_vld	SNAP Header Information Valid
cntag_vld	CNTag Information Valid
cntag_vld	CNTag Information Valid
qtag_vld	VLAN Tag Information Valid
qtag_vld	VLAN Tag Information Valid
vlan	VLAN Id (Present only in case of FEX)
vlan_id	VLAN Id
cos	Class of Service
cos_val	Class of Service Type
cfi	CFI Setting
cfi_vld	CFI Setting Valid
vntag_vld	VNTAG Information Valid
vntag_vld	VNTAG Information Valid
vntag_svif	VNTAG Source vif
vntag_svif	VNTAG Source vif
vntag_dvif	VNTAG Destination vif
vntag_dvif	VNTAG Destination vif
vntag_looped	VNTAG Header Looped Valid
vntag_loop	VNTAG Header Looped Valid

vntag_pointer	VNTAG Header Pointer Valid
vntag_p	VNTAG Header Pointer Valid
src_mac	Source MAC Address
smac	Source MAC Address Value
dst_mac	Destination MAC Address
dmac	Destination MAC Address Value

## Command Mode

- /exec/elamta/insel8

## 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
hg2_vlan	(Optional) High Gig2 VLAN Tag Information
hg2_ppd_type	(Optional) High Gig2 Packet Processing Descriptor
hg2_ppd_type	(Optional) High Gig2 Packet Processing Descriptor
hg2_mirror	(Optional) High Gig2 Packet Mirror Information
hg2_mirror	(Optional) High Gig2 Packet Mirror Information
hg2_opcode	(Optional) High Gig2 Packet Type
hg2_opcode	(Optional) High Gig2 Packet Type
hg2_dstpid	(Optional) High Gig2 Destination Port ID
hg2_dpid	(Optional) High Gig2 Destination Port ID
hg2_dstmod	(Optional) High Gig2 Destination Module ID
hg2_dmod	(Optional) High Gig2 Destination Module ID
hg2_srcpid	(Optional) High Gig2 Source Port ID
hg2_spid	(Optional) High Gig2 Source Port ID
hg2_srcmod	(Optional) High Gig2 Souce Module ID
hg2_smod	(Optional) High Gig2 Souce Module ID
hg2_l3vld	(Optional) High Gig2 Packet L3 Switched
hg2_l3_vld	(Optional) High Gig2 Packet L3 Switched
hg2_tc	(Optional) High Gig2 Packet Traffic Class

hg2_tc	(Optional) High Gig2 Packet Traffic Class
hg2_dp	(Optional) High Gig2 Drop Precedence
hg2_dp	(Optional) High Gig2 Drop Precedence
hg2_mcast	(Optional) High Gig2 MultiCast Forwarding Information
hg2_mcast_vld	(Optional) High Gig2 Multicast Forwarding Information
hg2-vld	(Optional) High Gig2 Valid Information
hg2_vld	(Optional) High Gig2 Valid Information
hg2-cos	(Optional) High Gig2 CoS Information
hg2_cos	(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
sport	(Optional) Source Port
dst-port	(Optional) Destination Port Information
dport	(Optional) Destination Port
packet-len	(Optional) Packet Length
pkt_len	(Optional) Packet Length
checksum	(Optional) Checksum
csum	(Optional) Checksum
flags	(Optional) L4 Flags
flag_val	(Optional) L4 Flags

## Command Mode

- /exec/elanms/sel3

## set outer l4

```
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> } +
```

### Syntax Description

set	Setup Trigger
outer	Mask and Match By Outer Packet Fields
l4	L4 Fields
l4-type	L4 Type - 0:TCP 1:UDP 2:IVXLAN 3:VXLAN 4:NVGRE 7:ND
l4_type	L4 Type Value - 0:TCP 1:UDP 2:IVXLAN 3:VXLAN 4:NVGRE 7:ND
src-port	Source Port Information
sport	Source Port
dst-port	Destination Port Information
dport	Destination Port
packet-len	Packet Length
pkt_len	Packet Length
checksum	Checksum
csum	Checksum
flags	L4 Flags 123
flag_val	L4 Flags
tn-nonce	Nonce valid
tn_nonce	Nonce valid
tn-lsb	Lsb valid
tn_lsb	Lsb valid
tn-nonce-info	Nonce Info
tn_nonce_info	Nonce Info
tn-lsb-info	Lsb Info



tn_lsb_info	Lsb Info
vnid	Virtual Network Id
vnid_val	Virtual Network Id
nd-type	ND Type
nd_type	ND Type
nd-code	ND Code
nd_code	ND Code
nd-flags	ND Flags
nd_flags	ND Flags
nd-ip	ND IP
nonce-lb	Nonce Load Balance
nonce_lb	Nonce Load Balance
nonce-dl	Nonce Don't Learn
nonce_dl	Nonce Don't Learn
nonce-e	Nonce Exception
nonce_e	Nonce Exception
nonce-sp	Nonce Src Policy applied
nonce_sp	Nonce Src Policy applied
nonce-dp	Nonce Dst Policy applied
nonce_dp	Nonce Dst Policy applied
nonce-dre	Nonce Congestion Est.
nonce_dre	Nonce Congestion Est.
sclass	Nonce Src Class
sclass	Nonce Src Class
lsb-m	Lsb Marker
lsb_m	Lsb Marker
lsb-lb-tag	Lsb LB Tag
lsb_lb_tag	Lsb LB Tag
lsb-lb-metric	Lsb LB Metric

lsb_lb_metric	Lsb LB Metric
---------------	---------------

## Command Mode

- /exec/elamta/insel6

## set outer l4

```
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> } +
```

### Syntax Description

set	Setup Trigger
outer	Mask and Match By Outer Packet Fields
inner	Mask and Match By Inner Packet Fields
l4	L4 Fields
l4-type	L4 Type - 0:TCP 1:UDP 2:IVXLAN 3:VXLAN 4:NVGRE 7:ND
l4_type	L4 Type Value - 0:TCP 1:UDP 2:IVXLAN 3:VXLAN 4:NVGRE 7:ND
src-port	Source Port Information
sport	Source Port
dst-port	Destination Port Information
dport	Destination Port
packet-len	Packet Length
pkt_len	Packet Length
checksum	Checksum
csum	Checksum
flags	L4 Flags 123
flag_val	L4 Flags
tn-nonce	Nonce valid
tn_nonce	Nonce valid
tn-lsb	Lsb valid
tn_lsb	Lsb valid
tn-nonce-info	Nonce Info
tn_nonce_info	Nonce Info

tn-lsb-info	Lsb Info
tn_lsb_info	Lsb Info
vnid	Virtual Network Id
vnid_val	Virtual Network Id
nd-type	ND Type
nd_type	ND Type
nd-code	ND Code
nd_code	ND Code
nd-flags	ND Flags
nd_flags	ND Flags
nd-ip	ND IP
nonce-lb	Nonce Load Balance
nonce_lb	Nonce Load Balance
nonce-dl	Nonce Don't Learn
nonce_dl	Nonce Don't Learn
nonce-e	Nonce Exception
nonce_e	Nonce Exception
nonce-sp	Nonce Src Policy applied
nonce_sp	Nonce Src Policy applied
nonce-dp	Nonce Dst Policy applied
nonce_dp	Nonce Dst Policy applied
nonce-dre	Nonce Congestion Est.
nonce_dre	Nonce Congestion Est.
sclass	Nonce Src Class
sclass	Nonce Src Class
lsb-m	Lsb Marker
lsb_m	Lsb Marker
lsb-lb-tag	Lsb LB Tag
lsb_lb_tag	Lsb LB Tag

lsb-lb-metric	Lsb LB Metric
lsb_lb_metric	Lsb LB Metric

## Command Mode

- /exec/elamtah/inse110

## set outer mpls

```
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> } +
```

### Syntax Description

set	Setup Trigger
outer	Mask and Match By Outer Packet Fields
inner	Mask and Match By Inner Packet Fields
mpls	MPLS Fields
l3-type	L3 Type - 0:CE 1:FC 2:IPv4 3:IPv6 4:ARP 5:MPLS
l3_type	L3 Type Value - 0:CE 1:FC 2:IPv4 3:IPv6 4:ARP 5:MPLS
label0_lbl	MPLS Label0 Label value
label0_lbl	MPLS Label0 Label value
label0_ttl	MPLS Label0 Time to Live
label0_ttl	MPLS Label0 Time to Live
label0_sbit	MPLS Label0 End of Stack
label0_sbit	MPLS Label0 End of Stack
label1_lbl	MPLS Label1 Label value
label1_lbl	MPLS Label1 Label value
label1_ttl	MPLS Label1 Time to Live
label1_ttl	MPLS Label1 Time to Live
label1_sbit	MPLS Label1 End of Stack
label1_sbit	MPLS Label1 End of Stack
label2_lbl	MPLS Label2 Label value
label2_lbl	MPLS Label2 Label value
label2_ttl	MPLS Label2 Time to Live
label2_ttl	MPLS Label2 Time to Live
label2_sbit	MPLS Label2 End of Stack

label2_sbit	MPLS Label2 End of Stack
label3_lbl	MPLS Label3 Label value
label3_lbl	MPLS Label3 Label value
label3_ttl	MPLS Label3 Time to Live
label3_ttl	MPLS Label3 Time to Live
label3_sbit	MPLS Label3 End of Stack
label3_sbit	MPLS Label3 End of Stack
label4_lbl	MPLS Label4 Label value
label4_lbl	MPLS Label4 Label value
label4_ttl	MPLS Label4 Time to Live
label4_ttl	MPLS Label4 Time to Live
label4_sbit	MPLS Label4 End of Stack
label4_sbit	MPLS Label4 End of Stack
label5_lbl	MPLS Label5 Label value
label5_lbl	MPLS Label5 Label value
label5_ttl	MPLS Label5 Time to Live
label5_ttl	MPLS Label5 Time to Live
label5_sbit	MPLS Label5 End of Stack
label5_sbit	MPLS Label5 End of Stack

## Command Mode

- /exec/elamtah/inse19

## set outer mpls

```
set outer mpls { expl_null <expl_null> | { 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> } + }
```

### Syntax Description

set	Setup Trigger
outer	Mask and Match By Outer Packet Fields
mpls	MPLS Fields
l3-type	L3 Type - 0:CE 1:FC 2:IPv4 3:IPv6 4:ARP 5:MPLS
l3_type	L3 Type Value - 0:CE 1:FC 2:IPv4 3:IPv6 4:ARP 5:MPLS
expl_null	capture packet with mpls label0=0 and S=1. NOTE: Captured pkt would be presented as an IP pkt
expl_null	0 -> explicit_null=0 , 1 -> explicit null=1
label0_lbl	MPLS Label0 Label value
label0_lbl	MPLS Label0 Label value
label0_ttl	MPLS Label0 Time to Live
label0_ttl	MPLS Label0 Time to Live
label0_sbit	MPLS Label0 End of Stack
label0_sbit	MPLS Label0 End of Stack
label1_lbl	MPLS Label1 Label value
label1_lbl	MPLS Label1 Label value
label1_ttl	MPLS Label1 Time to Live
label1_ttl	MPLS Label1 Time to Live
label1_sbit	MPLS Label1 End of Stack
label1_sbit	MPLS Label1 End of Stack
label2_lbl	MPLS Label2 Label value
label2_lbl	MPLS Label2 Label value
label2_ttl	MPLS Label2 Time to Live



label2_ttl	MPLS Label2 Time to Live
label2_sbit	MPLS Label2 End of Stack
label2_sbit	MPLS Label2 End of Stack
label3_lbl	MPLS Label3 Label value
label3_lbl	MPLS Label3 Label value
label3_ttl	MPLS Label3 Time to Live
label3_ttl	MPLS Label3 Time to Live
label3_sbit	MPLS Label3 End of Stack
label3_sbit	MPLS Label3 End of Stack
label4_lbl	MPLS Label4 Label value
label4_lbl	MPLS Label4 Label value
label4_ttl	MPLS Label4 Time to Live
label4_ttl	MPLS Label4 Time to Live
label4_sbit	MPLS Label4 End of Stack
label4_sbit	MPLS Label4 End of Stack
label5_lbl	MPLS Label5 Label value
label5_lbl	MPLS Label5 Label value
label5_ttl	MPLS Label5 Time to Live
label5_ttl	MPLS Label5 Time to Live
label5_sbit	MPLS Label5 End of Stack
label5_sbit	MPLS Label5 End of Stack

## Command Mode

- /exec/elamtah/insel6

## 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_tescpy> | hg2_tc <hg2_tc> | hg2_lbid <hg2_lbid> | hg2_opc <hg2_opc> | hg2_dstpid
<hg2_dpidx> | hg2_srcpid <hg2_spidx> | 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_tstamp <pkt_tstamp> | tstamp <tstamp> | cap_tstamp <cap_tstamp> | 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
mcast	Mcast
sup_redir	Sup Redirect
sured	Sup Redirect
bcm_proxy	Broadcom Proxy
bcm_proxy	Broadcom Proxy
excep_case	Excep_case
excep	Excep_case
transit	Transit
trans	Transit
vpc_df	VPC_df
vpc_df	VPC_df
src_tep_idx	Src TEP Index
src_tep	Src TEP Index
lat_update	Lat Update

lat_update	Lat Update
lat_idx	Lat Index
lat_idx	Lat Index
src_class	Source Class
sclass	Source Class
ol_fb_met	Ol_fb_metric
ol_fb_met	Ol_fb_metric
ol_fb_vpath	Ol_fb_vpath
ol_fb_vpath	Ol_fb_vpath
ol_dre	Ol_dre
ol_dre	Ol_dre
ol_vpath	Ol_vpath
ol_vpath	Ol_vpath
ol_dp	Ol_dp
ol_dp	Ol_dp
ol_sp	Ol_sp
ol_sp	Ol_sp
ol_e	Ol_e
ol_e	Ol_e
ol_dl	Ol_dl
ol_dl	Ol_dl
ol_lb	Ol_lb
ol_lb	Ol_lb
ol_mark	Ol_mark
ol_mark	Ol_mark
ol_udp_sp	Ol_UDP_sp
ol_udp_sp	Ol UDP Source Port
ol_ftag	Ol_ftag
ol_ftag	Ol_ftag

ol_segid	Ol_segid
ol_segid	Ol_segid
ol_ttl	Ol_TTL
ol_ttl	Ol_TTL
ol_ecn	Ol_ecn
ol_ecn	Ol_ecn
ol_dscp	Ol_dscp
ol_dscp	Ol_dscp
ol_de	Ol_de
ol_de	Ol_de
ol_cos	Ol_cos
ol_cos	Ol_cos
ol_mac	Ol_mac
ol_mac	Ol_mac
ol_encap_idx	Ol_encap_idx
ol_encap	Ol_encap_idx
ol_vpc	Ol_VPC
ol_vpc	Ol_VPC
ol_idx	Ol_idx
ol_idx	Ol_idx
ttl	TTL
ttl	TTL
dscp	DSCP
dscp	DSCP
vlan1	Vlan1
vlan1	Vlan1
ecn_coi	ecn_coi
ecn_coi	ecn_coi
ecn_cio	ecn_cio

ecn_cio	ecn_cio
ttn_coi	ttn_coi
ttn_coi	ttn_coi
ttn_cio	ttn_cio
ttn_cio	ttn_cio
adj_idx	adj_idx
adj_idx	adj_idx
vntag_svif	vntag_svif
vntag_svif	vntag_svif
de	de
de	de
cos	cos
cos	cos
vlan0	vlan0
vlan0	vlan0
adj_vld	adj_vld
adj_vld	adj_vld
uc_routed	uc_routed
uc_routed	uc_routed
loopback	loopback
lpb	loopback
ecn	ecn
ecn	ecn
hg2_vid	High Gig2 VLAN Tag
hg2_vlan	High Gig2 VLAN Tag Information
hg2_cos	High Gig2 CoS Information
hg2_cos	High Gig2 CoS Information
hg2_ppd	High Gig2 Packet Processing Descriptor
hg2_ppd	High Gig2 Packet Processing Descriptor

hg2_tc_sup_copy	High Gig2 Traffic Class SUP Copy
hg2_tscopy	High Gig2 Traffic Class SUP Copy
hg2_tc	High Gig2 Packet Traffic Class
hg2_tc	High Gig2 Packet Traffic Class
hg2_lbid	High Gig2 Packet Ibid
hg2_lbid	High Gig2 Packet Ibid
hg2_opc	High Gig2 Packet Type
hg2_opc	High Gig2 Packet Type
hg2_dstpid	High Gig2 Destination Port ID
hg2_dpид	High Gig2 Destination Port ID
hg2_dstmod	High Gig2 Destination Module ID
hg2_dmod	High Gig2 Destination Module ID
hg2_srcpid	High Gig2 Source Port ID
hg2_spид	High Gig2 Source Port ID
hg2_srcmod	High Gig2 Souce Module ID
hg2_smod	High Gig2 Souce Module ID
op_inner	Op_inner
op_inner	Op_inner
op_outer	Op_outer
op_outer	Op_outer
op_qtag	Op_qtag
op_qtag	Op_qtag
op_vntag	Op_vntag
op_vntag	Op_vntag
pkt_type	Pkt_type
pkt_type	Pkt_type
drop	Drop
drp	Drop
pkt_tstmp	Packet timestamp

pkt_tstamp	Packet timestamp
tstamp	Timestamp
tstamp	Timestamp
cap_tstamp	Capture Timestamp
cap_tstamp	Capture Timestamp
len_info	Len_info
len_info	Len_info
len_type	Len_type
len_type	Len_type
pktid	Pkt_id
pktid	Pkt_id
srcid	Src_id
srcid	Src_id
pktfmt1	Pktfmt1
pktfmt1	Pktfmt1
pktfmt0	Pktfmt0
pktfmt0	Pktfmt0

## Command Mode

- /exec/elanms/outse0

## set pktrw

```
set pktrw { 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> | epg_out <epg_out> | epg_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> | tstamp <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>
} +
```

### Syntax Description

set	Setup Trigger
pktrw	All pktrw fields
spare	Spare
spare	Spare
cap_access	Cap_Access
cap_access	Cap_Access
bounce	Bounce
bounce	Bounce
dst_vnic_if	Dst_Vnic_If
dst_vnic_if	Dst_Vnic_If
src_vnic_if	Src_Vnic_If
src_vnic_if	Src_Vnic_If



pif_block_type	Pif_Block_Type
pif_block_type	Pif_Block_Type
epg_out	Epg_Out
epg_out	Epg_Out
epg_in	Epg_In
epg_in	Epg_In
sup_qnum	Sup_Qnum
sup_qnum	Sup_Qnum
sup_code	Sup_Code
sup_code	Sup_Code
ecn_coi	Ecn_Coi
ecn_coi	Ecn_Coi
ecn_cio	Ecn_Cio
ecn_cio	Ecn_Cio
ttl_coi	Ttl_Coi
ttl_coi	Ttl_Coi
ttl_cio	Ttl_Cio
ttl_cio	Ttl_Cio
qos_map_idx	Qos_Map_Idx
qos_map_idx	Qos_Map_Idx
lat_update	Lat_Update
lat_update	Lat_Update
lat_index	Lat_Index
lat_index	Lat_Index
dclass	Dclass
dclass	Dclass
sclass	Sclass
sclass	Sclass
ol_fb_metric	Ol_Fb_Metric

ol_fb_metric	Ol_Fb_Metric
ol_fb_vpath	Ol_Fb_Vpath
ol_fb_vpath	Ol_Fb_Vpath
ol_dre	Ol_Dre
ol_dre	Ol_Dre
ol_vpath	Ol_Vpath
ol_vpath	Ol_Vpath
ol_dp	Ol_Dp
ol_dp	Ol_Dp
ol_sp	Ol_Sp
ol_sp	Ol_Sp
ol_e	Ol_E
ol_e	Ol_E
ol_dl	Ol_Dl
ol_dl	Ol_Dl
ol_lb	Ol_Lb
ol_lb	Ol_Lb
ol_mark	Ol_Mark
ol_mark	Ol_Mark
ol_udp_sp	Ol_Udp_Sp
ol_udp_sp	Ol_Udp_Sp
ol_ecn	Ol_Ecn
ol_ecn	Ol_Ecn
nat_idx	Nat_Idx
nat_idx	Nat_Idx
nat_vld	Nat_Vld
nat_vld	Nat_Vld
dst_addr1	Dst_Addr1
dst_addr1	Dst_Addr1

dst_addr0	Dst_Addr0
dst_addr0	Dst_Addr0
adj_vld	Adj_Vld
adj_vld	Adj_Vld
encap_l2_idx	Encap_L2_Idx
encap_l2_idx	Encap_L2_Idx
encap_pcid	Encap_Pcid
encap_pcid	Encap_Pcid
encap_idx	Encap_Idx
encap_idx	Encap_Idx
encap_vld	Encap_Vld
encap_vld	Encap_Vld
my_pcid	My_Pcid
my_pcid	My_Pcid
my_tep_idx	My_Tep_Idx
my_tep_idx	My_Tep_Idx
fwd_op	Fwd_Op
fwd_op	Fwd_Op
orig_encap_type	Orig_Encap_Type
orig_encap_type	Orig_Encap_Type
pkt_type	Pkt_Type
pkt_type	Pkt_Type
len_type	Len_Type
len_type	Len_Type
cap_1588	Cap_1588
cap_1588	Cap_1588
pktid	Pktid
pktid	Pktid
srcid	Srcid

srcid	Srcid
tstmp	Tstmp
tstmp	Tstmp
pktfmt1_inner	Pktfmt1_Inner
pktfmt1_inner	Pktfmt1_Inner
pktfmt1_l3	Pktfmt1_L3
pktfmt1_l3	Pktfmt1_L3
pktfmt1_l3_type	Pktfmt1_L3_Type
pktfmt1_l3_type	Pktfmt1_L3_Type
pktfmt1_mpls_null	Pktfmt1_Mpls_Null
pktfmt1_mpls_null	Pktfmt1_Mpls_Null
pktfmt1_snap	Pktfmt1_Snap
pktfmt1_snap	Pktfmt1_Snap
pktfmt1_cntag	Pktfmt1_Cntag
pktfmt1_cntag	Pktfmt1_Cntag
pktfmt1_ttag	Pktfmt1_Ttag
pktfmt1_ttag	Pktfmt1_Ttag
pktfmt1_cmd_dgt	Pktfmt1_Cmd_Dgt
pktfmt1_cmd_dgt	Pktfmt1_Cmd_Dgt
pktfmt1_cmd_sgt	Pktfmt1_Cmd_Sgt
pktfmt1_cmd_sgt	Pktfmt1_Cmd_Sgt
pktfmt1_cdce	Pktfmt1_Cdce
pktfmt1_cdce	Pktfmt1_Cdce
pktfmt1_trill	Pktfmt1_Trill
pktfmt1_trill	Pktfmt1_Trill
pktfmt1_qtag2	Pktfmt1_Qtag2
pktfmt1_qtag2	Pktfmt1_Qtag2
pktfmt1_qtag1	Pktfmt1_Qtag1
pktfmt1_qtag1	Pktfmt1_Qtag1

pktfmt1_qtag0	Pktfmt1_Qtag0
pktfmt1_qtag0	Pktfmt1_Qtag0
pktfmt1_ivntag	Pktfmt1_Ivntag
pktfmt1_ivntag	Pktfmt1_Ivntag
pktfmt1_vntag	Pktfmt1_Vntag
pktfmt1_vntag	Pktfmt1_Vntag
pktfmt1_ce	Pktfmt1_Ce
pktfmt1_ce	Pktfmt1_Ce
pktfmt1_ieth	Pktfmt1_Ieth
pktfmt1_ieth	Pktfmt1_Ieth
pktfmt1_higig2	Pktfmt1_Higig2
pktfmt1_higig2	Pktfmt1_Higig2
pktfmt0_inner	Pktfmt0_Inner
pktfmt0_inner	Pktfmt0_Inner
pktfmt0_l3	Pktfmt0_L3
pktfmt0_l3	Pktfmt0_L3
pktfmt0_l3_type	Pktfmt0_L3_Type
pktfmt0_l3_type	Pktfmt0_L3_Type
pktfmt0_mpls_null	Pktfmt0_Mpls_Null
pktfmt0_mpls_null	Pktfmt0_Mpls_Null
pktfmt0_snap	Pktfmt0_Snap
pktfmt0_snap	Pktfmt0_Snap
pktfmt0_cntag	Pktfmt0_Cntag
pktfmt0_cntag	Pktfmt0_Cntag
pktfmt0_ttag	Pktfmt0_Ttag
pktfmt0_ttag	Pktfmt0_Ttag
pktfmt0_cmd_dgt	Pktfmt0_Cmd_Dgt
pktfmt0_cmd_dgt	Pktfmt0_Cmd_Dgt
pktfmt0_cmd_sgt	Pktfmt0_Cmd_Sgt

pktfmt0_cmd_sgt	Pktfmt0_Cmd_Sgt
pktfmt0_cdce	Pktfmt0_Cdce
pktfmt0_cdce	Pktfmt0_Cdce
pktfmt0_trill	Pktfmt0_Trill
pktfmt0_trill	Pktfmt0_Trill
pktfmt0_qtag2	Pktfmt0_Qtag2
pktfmt0_qtag2	Pktfmt0_Qtag2
pktfmt0_qtag1	Pktfmt0_Qtag1
pktfmt0_qtag1	Pktfmt0_Qtag1
pktfmt0_qtag0	Pktfmt0_Qtag0
pktfmt0_qtag0	Pktfmt0_Qtag0
pktfmt0_ivntag	Pktfmt0_Ivntag
pktfmt0_ivntag	Pktfmt0_Ivntag
pktfmt0_vntag	Pktfmt0_Vntag
pktfmt0_vntag	Pktfmt0_Vntag
pktfmt0_ce	Pktfmt0_Ce
pktfmt0_ce	Pktfmt0_Ce
pktfmt0_ieth	Pktfmt0_Ieth
pktfmt0_ieth	Pktfmt0_Ieth
pktfmt0_higig2	Pktfmt0_Higig2
pktfmt0_higig2	Pktfmt0_Higig2

## Command Mode

- /exec/elamtah/outsel0

## set pkrw

```
set pkrw { 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> | epg_out <epg_out> | epg_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_coi> | 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> | tstamp <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>
} +
```

### Syntax Description

set	Setup Trigger
pkrw	All pkrw fields
spare	Spare
spare	Spare
cap_access	Cap_Access
cap_access	Cap_Access
bounce	Bounce
bounce	Bounce
dst_vnic_if	Dst_Vnic_If
dst_vnic_if	Dst_Vnic_If
src_vnic_if	Src_Vnic_If
src_vnic_if	Src_Vnic_If

pif_block_type	Pif_Block_Type
pif_block_type	Pif_Block_Type
epg_out	Epg_Out
epg_out	Epg_Out
epg_in	Epg_In
epg_in	Epg_In
sup_qnum	Sup_Qnum
sup_qnum	Sup_Qnum
sup_code	Sup_Code
sup_code	Sup_Code
ecn_coi	Ecn_Coi
ecn_coi	Ecn_Coi
ecn_cio	Ecn_Cio
ecn_cio	Ecn_Cio
ttl_coi	Ttl_Coi
ttl_coi	Ttl_Coi
ttl_cio	Ttl_Cio
ttl_cio	Ttl_Cio
qos_map_idx	Qos_Map_Idx
qos_map_idx	Qos_Map_Idx
lat_update	Lat_Update
lat_update	Lat_Update
lat_index	Lat_Index
lat_index	Lat_Index
dclass	Dclass
dclass	Dclass
sclass	Sclass
sclass	Sclass
ol_fb_metric	Ol_Fb_Metric



ol_fb_metric	Ol_Fb_Metric
ol_fb_vpath	Ol_Fb_Vpath
ol_fb_vpath	Ol_Fb_Vpath
ol_dre	Ol_Dre
ol_dre	Ol_Dre
ol_vpath	Ol_Vpath
ol_vpath	Ol_Vpath
ol_dp	Ol_Dp
ol_dp	Ol_Dp
ol_sp	Ol_Sp
ol_sp	Ol_Sp
ol_e	Ol_E
ol_e	Ol_E
ol_dl	Ol_Dl
ol_dl	Ol_Dl
ol_lb	Ol_Lb
ol_lb	Ol_Lb
ol_mark	Ol_Mark
ol_mark	Ol_Mark
ol_udp_sp	Ol_Udp_Sp
ol_udp_sp	Ol_Udp_Sp
ol_ecn	Ol_Ecn
ol_ecn	Ol_Ecn
nat_idx	Nat_Idx
nat_idx	Nat_Idx
nat_vld	Nat_Vld
nat_vld	Nat_Vld
dst_addr1	Dst_Addr1
dst_addr1	Dst_Addr1

dst_addr0	Dst_Addr0
dst_addr0	Dst_Addr0
adj_vld	Adj_Vld
adj_vld	Adj_Vld
encap_l2_idx	Encap_L2_Idx
encap_l2_idx	Encap_L2_Idx
encap_pcid	Encap_Pcid
encap_pcid	Encap_Pcid
encap_idx	Encap_Idx
encap_idx	Encap_Idx
encap_vld	Encap_Vld
encap_vld	Encap_Vld
my_pcid	My_Pcid
my_pcid	My_Pcid
my_tep_idx	My_Tep_Idx
my_tep_idx	My_Tep_Idx
fwd_op	Fwd_Op
fwd_op	Fwd_Op
orig_encap_type	Orig_Encap_Type
orig_encap_type	Orig_Encap_Type
pkt_type	Pkt_Type
pkt_type	Pkt_Type
len_type	Len_Type
len_type	Len_Type
cap_1588	Cap_1588
cap_1588	Cap_1588
pktid	Pktid
pktid	Pktid
srcid	Srcid

srcid	Srcid
tstamp	Tstamp
tstamp	Tstamp
pktfmt1_inner	Pktfmt1_Inner
pktfmt1_inner	Pktfmt1_Inner
pktfmt1_l3	Pktfmt1_L3
pktfmt1_l3	Pktfmt1_L3
pktfmt1_l3_type	Pktfmt1_L3_Type
pktfmt1_l3_type	Pktfmt1_L3_Type
pktfmt1_mpls_null	Pktfmt1_Mpls_Null
pktfmt1_mpls_null	Pktfmt1_Mpls_Null
pktfmt1_snap	Pktfmt1_Snap
pktfmt1_snap	Pktfmt1_Snap
pktfmt1_cntag	Pktfmt1_Cntag
pktfmt1_cntag	Pktfmt1_Cntag
pktfmt1_ttag	Pktfmt1_Ttag
pktfmt1_ttag	Pktfmt1_Ttag
pktfmt1_cmd_dgt	Pktfmt1_Cmd_Dgt
pktfmt1_cmd_dgt	Pktfmt1_Cmd_Dgt
pktfmt1_cmd_sgt	Pktfmt1_Cmd_Sgt
pktfmt1_cmd_sgt	Pktfmt1_Cmd_Sgt
pktfmt1_cdce	Pktfmt1_Cdce
pktfmt1_cdce	Pktfmt1_Cdce
pktfmt1_trill	Pktfmt1_Trill
pktfmt1_trill	Pktfmt1_Trill
pktfmt1_qtag2	Pktfmt1_Qtag2
pktfmt1_qtag2	Pktfmt1_Qtag2
pktfmt1_qtag1	Pktfmt1_Qtag1
pktfmt1_qtag1	Pktfmt1_Qtag1

pktfmt1_qtag0	Pktfmt1_Qtag0
pktfmt1_qtag0	Pktfmt1_Qtag0
pktfmt1_ivntag	Pktfmt1_Ivntag
pktfmt1_ivntag	Pktfmt1_Ivntag
pktfmt1_vntag	Pktfmt1_Vntag
pktfmt1_vntag	Pktfmt1_Vntag
pktfmt1_ce	Pktfmt1_Ce
pktfmt1_ce	Pktfmt1_Ce
pktfmt1_ieth	Pktfmt1_Ieth
pktfmt1_ieth	Pktfmt1_Ieth
pktfmt1_higig2	Pktfmt1_Higig2
pktfmt1_higig2	Pktfmt1_Higig2
pktfmt0_inner	Pktfmt0_Inner
pktfmt0_inner	Pktfmt0_Inner
pktfmt0_l3	Pktfmt0_L3
pktfmt0_l3	Pktfmt0_L3
pktfmt0_l3_type	Pktfmt0_L3_Type
pktfmt0_l3_type	Pktfmt0_L3_Type
pktfmt0_mpls_null	Pktfmt0_Mpls_Null
pktfmt0_mpls_null	Pktfmt0_Mpls_Null
pktfmt0_snap	Pktfmt0_Snap
pktfmt0_snap	Pktfmt0_Snap
pktfmt0_cntag	Pktfmt0_Cntag
pktfmt0_cntag	Pktfmt0_Cntag
pktfmt0_ttag	Pktfmt0_Ttag
pktfmt0_ttag	Pktfmt0_Ttag
pktfmt0_cmd_dgt	Pktfmt0_Cmd_Dgt
pktfmt0_cmd_dgt	Pktfmt0_Cmd_Dgt
pktfmt0_cmd_sgt	Pktfmt0_Cmd_Sgt

pktfmt0_cmd_sgt	Pktfmt0_Cmd_Sgt
pktfmt0_cdce	Pktfmt0_Cdce
pktfmt0_cdce	Pktfmt0_Cdce
pktfmt0_trill	Pktfmt0_Trill
pktfmt0_trill	Pktfmt0_Trill
pktfmt0_qtag2	Pktfmt0_Qtag2
pktfmt0_qtag2	Pktfmt0_Qtag2
pktfmt0_qtag1	Pktfmt0_Qtag1
pktfmt0_qtag1	Pktfmt0_Qtag1
pktfmt0_qtag0	Pktfmt0_Qtag0
pktfmt0_qtag0	Pktfmt0_Qtag0
pktfmt0_ivntag	Pktfmt0_Ivntag
pktfmt0_ivntag	Pktfmt0_Ivntag
pktfmt0_vntag	Pktfmt0_Vntag
pktfmt0_vntag	Pktfmt0_Vntag
pktfmt0_ce	Pktfmt0_Ce
pktfmt0_ce	Pktfmt0_Ce
pktfmt0_ieth	Pktfmt0_Ieth
pktfmt0_ieth	Pktfmt0_Ieth
pktfmt0_higig2	Pktfmt0_Higig2
pktfmt0_higig2	Pktfmt0_Higig2

## Command Mode

- /exec/elamtah/outsell

## set sb\_info

```
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> } +
```

### Syntax Description

set	Setup Trigger
sb_info	All sb_info fields
oslice_vec	Oslice_Vec
oslice_vec	Oslice_Vec
srvc_oslice_vec	srvc_oslice_vec
srvc_oslice_vec	srvc_oslice_vec
is_tcp	is_tcp
is_tcp	is_tcp
srvc_class	srvc_class
srvc_class	srvc_class
cpu_oclass	cpu_oclass
cpu_oclass	cpu_oclass
set_v	set_v
set_v	set_v
set_idx	set_idx
set_idx	set_idx
set_last	set_last
set_last	set_last
bd	bd
bd	bd
src_is_l3_if	src_is_l3_if
src_is_l3_if	src_is_l3_if

src_is_vpc_peer	src_is_vpc_peer
src_is_vpc_peer	src_is_vpc_peer
is_my_tep	is_my_tep
is_my_tep	is_my_tep
src_sh_group	src_sh_group
src_sh_group	src_sh_group
ftag	ftag
ftag	ftag
rpf_fail	rpf_fail
rpf_fail	rpf_fail
post_route_flood	post_route_flood
post_route_flood	post_route_flood
pkt_hash	pkt_hash
pkt_hash	pkt_hash
bpdu	bpdu
bpdu	bpdu
met0_v	met0_v
met0_v	met0_v
met0_idx	met0_idx
met0_idx	met0_idx
met0_last	met0_last
met0_last	met0_last
met1_v	met1_v
met1_v	met1_v
met1_idx	met1_idx
met1_idx	met1_idx
met1_last	met1_last
met1_last	met1_last
ip_clen	ip_clen

ip_clen	ip_clen
sod_cap	sod_cap
sod_cap	sod_cap
sod_en	sod_en
sod_en	sod_en

## Command Mode

- /exec/elamtah/outsel2



## set sb\_info

```
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> } +
```

### Syntax Description

set	Setup Trigger
sb_info	All sb_info fields
oslice_vec	Oslice_Vec
oslice_vec	Oslice_Vec
srvc_oslice_vec	srvc_oslice_vec
srvc_oslice_vec	srvc_oslice_vec
is_tcp	is_tcp
is_tcp	is_tcp
srvc_class	srvc_class
srvc_class	srvc_class
cpu_oclass	cpu_oclass
cpu_oclass	cpu_oclass
set_v	set_v
set_v	set_v
set_idx	set_idx
set_idx	set_idx
set_last	set_last
set_last	set_last
bd	bd
bd	bd
src_is_l3_if	src_is_l3_if
src_is_l3_if	src_is_l3_if

src_is_vpc_peer	src_is_vpc_peer
src_is_vpc_peer	src_is_vpc_peer
is_my_tep	is_my_tep
is_my_tep	is_my_tep
src_sh_group	src_sh_group
src_sh_group	src_sh_group
ftag	ftag
ftag	ftag
rpf_fail	rpf_fail
rpf_fail	rpf_fail
post_route_flood	post_route_flood
post_route_flood	post_route_flood
pkt_hash	pkt_hash
pkt_hash	pkt_hash
bpdu	bpdu
bpdu	bpdu
met0_v	met0_v
met0_v	met0_v
met0_idx	met0_idx
met0_idx	met0_idx
met0_last	met0_last
met0_last	met0_last
met1_v	met1_v
met1_v	met1_v
met1_idx	met1_idx
met1_idx	met1_idx
met1_last	met1_last
met1_last	met1_last
ip_clen	ip_clen

ip_clen	ip_clen
sod_cap	sod_cap
sod_cap	sod_cap
sod_en	sod_en
sod_en	sod_en

## Command Mode

- /exec/elamtah/outse10

## set sideband

```
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> | segrate <segrate> | mark <mark> } +
```

### Syntax Description

set	Setup Trigger
sideband	All sideband fields
cpu_oport	Cpu_Oport
cpu_oport	Cpu_Oport
span_idx	Span_Idx
span_idx	Span_Idx
ovector_idx	Ovector_Idx
ovector_idx	Ovector_Idx
iclass	Iclass
iclass	Iclass
oclass	Oclass
oclass	Oclass
opcode	Opcode
opcode	Opcode
encapable	Encapable
encapable	Encapable
nodrop	Nodrop
nodrop	Nodrop
storefwd	Storefwd
storefwd	Storefwd
spantransit	Spantransit
spantransit	Spantransit
rr	Rr

rr	Rr
ecnmark	Ecnmark
ecnmark	Ecnmark
gbw_tagged	Gbw_Tagged
gbw_tagged	Gbw_Tagged
gbw_color	Gbw_Color
gbw_color	Gbw_Color
bnce	Bnce
bnce	Bnce
spanslc	Spanslc
spanslc	Spanslc
segrate	Segrate
segrate	Segrate
mark	Mark
mark	Mark

## Command Mode

- /exec/elamtah/outse10

## set sideband

```
set sideband { cpu_oport <cpu_oport> | span_idx <span_idx> | ovector_idx <ovector_idx> | iclass <iclass> |
oclass <oclass> | opcode <opcode> | ecncapable <ecncapable> | nodrop <nodrop> | storefwd <storefwd> |
spantransit <spantransit> | rr <rr> | ecnmark <ecnmark> | gbw_tagged <gbw_tagged> | gbw_color <gbw_color>
| bnce <bnce> | spanslc <spanslc> | segrate <segrate> | mark <mark> } +
```

### Syntax Description

set	Setup Trigger
sideband	All sideband fields
cpu_oport	Cpu_Oport
cpu_oport	Cpu_Oport
span_idx	Span_Idx
span_idx	Span_Idx
ovector_idx	Ovector_Idx
ovector_idx	Ovector_Idx
iclass	Iclass
iclass	Iclass
oclass	Oclass
oclass	Oclass
opcode	Opcode
opcode	Opcode
ecncapable	Ecncapable
ecncapable	Ecncapable
nodrop	Nodrop
nodrop	Nodrop
storefwd	Storefwd
storefwd	Storefwd
spantransit	Spantransit
spantransit	Spantransit
rr	Rr

rr	Rr
ecnmark	Ecnmark
ecnmark	Ecnmark
gbw_tagged	Gbw_Tagged
gbw_tagged	Gbw_Tagged
gbw_color	Gbw_Color
gbw_color	Gbw_Color
bnce	Bnce
bnce	Bnce
spanslc	Spanslc
spanslc	Spanslc
segrate	Segrate
segrate	Segrate
mark	Mark
mark	Mark

## Command Mode

- /exec/elamtah/outsell

## set sideband

```
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> | segrate <segrate> | mark <mark> } +
```

### Syntax Description

set	Setup Trigger
sideband	All sideband fields
cpu_oport	Cpu_Oport
cpu_oport	Cpu_Oport
span_idx	Span_Idx
span_idx	Span_Idx
ovector_idx	Ovector_Idx
ovector_idx	Ovector_Idx
iclass	Iclass
iclass	Iclass
oclass	Oclass
oclass	Oclass
opcode	Opcode
opcode	Opcode
encapable	Encapable
encapable	Encapable
nodrop	Nodrop
nodrop	Nodrop
storefwd	Storefwd
storefwd	Storefwd
spantransit	Spantransit
spantransit	Spantransit
rr	Rr



rr	Rr
ecnmark	Ecnmark
ecnmark	Ecnmark
gbw_tagged	Gbw_Tagged
gbw_tagged	Gbw_Tagged
gbw_color	Gbw_Color
gbw_color	Gbw_Color
bnce	Bnce
bnce	Bnce
spanslc	Spanslc
spanslc	Spanslc
segrate	Segrate
segrate	Segrate
mark	Mark
mark	Mark

## Command Mode

- /exec/elamtah/outsel2

## 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
span_vec	SPAN vector
bounce	Bounce
bnc	Bounce
mclast	Mclast
mclast	Mclast
mcastcurptr	Mcast cur ptr
mccurptr	Mcast cur ptr
mcastcurptr_v	Mcast cur ptr v
mccurptr_v	Mcast cur ptr v
srcport	Source Port
sport	Source Port
vlan	Vlan
vlan	Vlan
segwgt	Segwgt
segwgt	Segwgt
segid	Segid
segid	Segid
seglocal	Seglocal
seglcl	Seglocal

gbw_color	GBW color
gbw_color	GBW color
gbw_tag	GBW tagged
gbw_tagg	GBW tagged
fwddrp	Forward drop
fwddrp	Forward drop
l2fld	L2 Flood
l2fld	L2 Flood
nodrp	No drop
nodrp	No drop
ovrlyidx	Overlay index
ovrlyidx	Overlay index
ecncap	ECN Capable
ecncap	ECN Capable
cpu	CPU
cpu	CPU
store_fwd	Store_fwd
stfwd	Store_fwd
mcast	Multicast
mcast	Multicast
oclass	Output class
ocls	Output class
iclass	Input class
icls	Input class
odest_v	Odest_v
odest_v	Odest_v
odest	Odest
odest	Odest
ovec	Ovector

ovec	Ovector
span_trans	SPAN transit
span_trans	SPAN transit
lbtype	Lbtype
lbtype	Lbtype
lbena	Lbenable
lbena	Lbenable
tdmid	Tdmid
tdmid	Tdmid
pktid	Pkt_id
pktid	Pkt_id
srcid	Src_id
srcid	Src_id
eoferror	EOF error
eoferr	EOF erro
eofbytes	EOF bytes
eofby	EOF bytes
eof	EOF
eof	EOF
sof	SOF
sof	SOF

## Command Mode

- /exec/elanms/outsel5

## set stats

```
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> } +
```

### Syntax Description

set	Setup Trigger
stats	All stats fields
vld0	Vld0
vld0	Vld0
atomic0	Atomic0
atomic0	Atomic0
mode0	Mode0
mode0	Mode0
index0	Index0
index0	Index0
vld1	Vld1
vld1	Vld1
atomic1	Atomic1
atomic1	Atomic1
mode1	Mode1
mode1	Mode1
index1	Index1
index1	Index1
vld2	Vld2
vld2	Vld2
atomic2	Atomic2
atomic2	Atomic2

mode2	Mode2
mode2	Mode2
index2	Index2
index2	Index2
vld3	Vld3
vld3	Vld3
atomic3	Atomic3
atomic3	Atomic3
mode3	Mode3
mode3	Mode3
index3	Index3
index3	Index3
vld4	Vld4
vld4	Vld4
atomic4	Atomic4
atomic4	Atomic4
mode4	Mode4
mode4	Mode4
index4	Index4
index4	Index4
vld5	Vld5
vld5	Vld5
atomic5	Atomic5
atomic5	Atomic5
mode5	Mode5
mode5	Mode5
index5	Index5
index5	Index5
vld6	Vld6

vld6	Vld6
atomic6	Atomic6
atomic6	Atomic6
mode6	Mode6
mode6	Mode6
index6	Index6
index6	Index6
vld7	Vld7
vld7	Vld7
atomic7	Atomic7
atomic7	Atomic7
mode7	Mode7
mode7	Mode7
index7	Index7
index7	Index7

## Command Mode

- /exec/elamtah/outsel2

# 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
value	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
count	Weight value

## Command Mode

- /exec/configure/route-map

# setup

setup

Syntax Description

setup	Run the basic SETUP command facility
-------	--------------------------------------

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
rate	(Optional) sFlow Sampling rate
max-sampled-size	(Optional) sFlow Sampled Size
pkt-size	(Optional) sFlow Sampled Size
counter-poll-interval	(Optional) sFlow Counter Poll Interval
interval	(Optional) sFlow Counter Poll Interval
max-datagram-size	(Optional) sFlow Datagram Size
dgram-size	(Optional) sFlow Datagram Size
collector-ip	(Optional) sFlow Collector IP address
dst-ip	(Optional) sFlow Collector IP address
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
source	(Optional) Source IP address to send to sFlow Collector
src-ip	(Optional) Source IP address to send to sFlow Collector
collector-port	(Optional) sFlow Collector UDP port
dst-port	(Optional) sFlow Collector UDP port
agent-ip	(Optional) sFlow Agent IP address
agent-ip	(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 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
ifnum	sFlow Data Source Interface
pcifnum	sFlow Data Source Interface

### 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
ifnum	sFlow Data Source Interface
pcifnum	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

## 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
secret	Enter shared-secret in clear text
10	password in clear text
clear	Password in clear text
7	Password that follows should be in encrypted text
encrypted	Encrypted password
user	(Optional) User Name
user	(Optional) Enter user name
password	(Optional) Password
password	(Optional) Enter password in clear text
0	(Optional) Password that follows should be in clear text
clear	(Optional) Password in clear text
7	(Optional) Password that follows should be in encrypted text
encrypted	(Optional) Encrypted password

### Command Mode

- /exec/configure/fabric-db/server-radius



# shut

[no] shut

Syntax Description

no	(Optional) Negate a command or set its defaults
shut	Shut a monitor session

Command Mode

- /exec/configure/monitor-common

# 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	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	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	

Command Mode

- /exec/configure/catena /exec/configure/catena

# 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	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 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 the OSPF protocol instance

Command Mode

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

# shutdown

[no] shutdown

Syntax Description

no	(Optional) Negate the command
shutdown	Enable Transient Capture Buffer

Command Mode

- /exec/configure/pkt-drop

# 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	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	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 Segment Routing

Command Mode

- /exec/configure/config-sr-mps

# shutdown

[no] shutdown

Syntax Description

no	(Optional) Negate a command or set its defaults
shutdown	Shutdown VLAN switching

Command Mode

- /exec/configure/vlan



# 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

# 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	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	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	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	

Command Mode

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

# 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	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

shutdown | no shutdown

Syntax Description

no	Negate a command or set its defaults
shutdown	suspend vPC locally

Command Mode

- /exec/configure/vpc-domain

# 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

[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 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

[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



# 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

# 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
acl	(Optional) Access list

## Command Mode

- /exec/configure/te

# 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
value	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
value	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
value	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
value	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
msec	Initial retransmit delay in millisec

### 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
msec	(Optional) Interval in millisecc
limit	(Optional) Configure message limit per scheduling interval
messages	(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
seconds	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
value	Refresh miss value

## 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
msec	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
value	Bundle size in bytes, use zero to disable bundling

### 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
ext-comm-soo-aa2nn4	Extcommunity number
ext-comm-soo-aa4nn2	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
ip	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
i0	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
inst	Instance number
i0	(Optional) Enter the number of seconds to sleep

### 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)
module	the slot number (aka module number)
quoted	enter the command with quotes -> pipe redirection and semi-colon are local
quoted-cmd	the command(s) to run on lc separated by <space> <semi-colon> <space>
cmd	the command(s) to run on lc separated by <space> <semi-colon> <space>

## Command Mode

- /exec

# slot

slot <module>

Syntax Description

slot	Configure a slot
module	the slot number (aka module number)

Command Mode

- /exec/configure



# 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
service-name	L2 service-name

## Command Mode

- /exec/configure

## 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
svc-name	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

}	
smtp-host	SMTP server host
ipv4	IPV4 address
host	DNS name
smtp-port	(Optional) SMTP server port
port	(Optional) Port for SMTP server
reply-to	Reply to email address
reply	Provide reply-to email address
from	From email address
from	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
snapshot-name	Name of a snapshot
snapshot-description	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
snapshot-name	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
name	Name of a section
command	show' command to generate XML output
row-id	tag of each row entry of the 'show' XML output
key1	first key to distinguish among row entries with
key2	(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
name	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
timeout	timeout for which aaa-cached user exists(in secs)

### 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
community_name	SNMP community string
use-ipv4acl	Specify IPv4 ACL, the ACL name specified after must be IPv4 ACL.
ipv4_acl_name	(Optional) IPv4 ACL name to filter snmp requests
use-ipv6acl	Specify IPv6 ACL, the ACL name specified after must be IPv6 ACL.
ipv6_acl_name	(Optional) IPv6 ACL name to filter snmp requests

### 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
s0	SNMP community string
group	(Optional) Group to which the community belongs
s1	(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 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
line	(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
context_name	name of the SNMP context
instance	(Optional) Protocol instance associated with the SNMP context
instance-name	(Optional) Name of the protocol instance
vrf	(Optional) VRF associated with the SNMP context
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
topology	(Optional) Topology associated with the SNMP context
topology-name	(Optional) name of the Topology

### 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
timeout	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
trap_arg	(Optional) Enable __left__ traps
trap_sub_category	(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
subsystem	(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
subsystem	(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
eigrp-ptag	(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
tag	(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
tag	(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
tag	(Optional) Process tag
rate-limit	Trap rate limit values
window	(Optional) Rate limit window size in seconds
rate	(Optional) Max number of traps sent in window time
tag	(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
tag	(Optional) Process tag

Command Mode

- /exec/configure

## snmp-server enable traps ospfv3 lsa

[no] snmp-server enable traps ospfv3 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
lsa	Enable SNMP OSPFv3 LSA traps

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
tag	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
tag	(Optional) Process tag
rate-limit	Trap rate limit values
swindow	Rate limit window size in seconds
rate	Max number of traps sent in window time
tag	(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
rate-per-minute	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
engineID	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 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 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
host0	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
vrf-name	VRF name
vrf-known-name	Known VRF name
udp-port	(Optional) The notification host's UDP port number
i1	(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
host0	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
ifName	Source interface name
udp-port	(Optional) The notification host's UDP port number
i1	(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
host0	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
vrf-name	VRF name
vrf-known-name	Known VRF name
udp-port	(Optional) The notification host's UDP port number
i1	(Optional) The notification host's UDP port number

### 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
line	(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
community_name	SNMP community string
context	SNMP context to be mapped
context_name	name of the SNMP context

### 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
ifName	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
ifName	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 <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	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
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	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
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-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
user_name	Name of the user
use-ipv4acl	Specify IPv4 ACL, the ACL name specified after must be IPv4 ACL.
ipv4_acl_name	(Optional) IPv4 ACL name to filter snmp requests
use-ipv6acl	Specify IPv6 ACL, the ACL name specified after must be IPv6 ACL.
ipv6_acl_name	(Optional) IPv6 ACL name to filter snmp requests

### Command Mode

- /exec/configure

# 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

[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
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

## 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 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

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

## 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)
sn-grp-id	Identifier
cadence	Cadence Time in milliseconds

### Command Mode

- /exec/configure/telemetry/subscription

## sockets local-port-range

{ { no sockets local-port-range } | { sockets local-port-range <start-port> <end-port> } }

### Syntax Description

no	Negate a command or set its defaults
sockets	Negate a command or set its defaults
local-port-range	Define local port range for Kstack. Note: This CLI requires switch to be reloaded
start-port	Start port of local port range
end-port	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-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-ipv4-mvpn  
/exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv6-mvpn

# 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
ext-comm-soo-aa4nn2	VPN extcommunity in aa4:nn or ip:nn format
ext-comm-soo-aa2nn4	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
key	(Optional) key in format POS1[,POS2] with POS = <field-nb>[.<char-pos>][<ordering>]
delim	(Optional) field delimiter char

## Command Mode

- /output

## source-address ipv4

[no] source-address ipv4 [ <ip-address> ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
source-address	Configure the source address to be used for PCE connection
ipv4	Configure v4 source address for PCC
ip-address	(Optional) Source address

### Command Mode

- /exec/configure/sr/te/pcc

# source-interface

[no] source-interface <interface>

Syntax Description

no	(Optional) Negate a command or set its defaults
source-interface	Configure source interface to reach http server
interface	Interface

Command Mode

- /exec/configure/trustpool

## source-interface

[no] source-interface <interface>

Syntax Description

no	(Optional) Negate a command or set its defaults
source-interface	NVE source interface associated with the module
interface	

Command Mode

- /exec/configure/nve-encap

# source-interface

source-interface <interface> [ anycast <anycast-intf> ] | no source-interface

## Syntax Description

no	Negate a command or set its defaults
source-interface	NVE Source-Interface
interface	
anycast	(Optional) Specify Anycast loopback interface
anycast-intf	(Optional)

## Command Mode

- /exec/configure/if-nve

# source-interface

source-interface <interface> | no source-interface

Syntax Description

no	Negate a command or set its defaults
source-interface	Source interface
interface	Interface name

Command Mode

- /exec/configure/telemetry/destination-profile

# source-interface

[no] source-interface <interface>

Syntax Description

no	(Optional) Negate a command or set its defaults
source-interface	PLB probe Source-Interface
interface	source interface for probe

Command Mode

- /exec/configure/itd

## 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
interface	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
interface	Interface (default is mgmt)

## Command Mode

- /exec/configure/tacacs+

## source-interface

[no] source-interface <interface>

Syntax Description

no	(Optional) Negate a command or set its defaults
source-interface	PLB probe Source-Interface
interface	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
sec	time in seconds

Command Mode

- /exec/configure/if-nve

## 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'
file	the script file to run
args	(Optional) argument to be passed to script

### Command Mode

- /exec

## source

{ [ no ] source <intf> | no source }

### Syntax Description

source	Source Interface for this destination
intf	Interface

### Command Mode

- /exec/configure/config-int-exporter

## source

```
{ [ no ] source { <ipaddr> | <ipv6addr> } }
```

### Syntax Description

source	Specify details
ipaddr	Source IP address for collector

### Command Mode

- /exec/configure/config-fte-exporter

## source

{ source { <numeric1> | <numeric2> } | no source }

### Syntax Description

no	Negate a command or set its defaults
source	Source
numeric1	IP

### Command Mode

- /exec/configure/configngoamconnectcheck

## source

{ [ no ] source <intf> | no source }

### Syntax Description

source	Source Interface for this destination
intf	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
srcip	IP address of source

Command Mode

- /exec/configure/openflow/switch

## source

```
[no] source { { unicast-queue interface <if_list> qos-group <qos-grp> } | { { ingress | egress } { interface <if_list> } } }
```

### Syntax Description

no	(Optional) Negate the command
source	Configure Packet Drop Scope
unicast-queue	Specify Capture scope as queue basis
interface	Specify interface associated to particular Queue
if_list	List of interfaces
qos-group	Specify the Qos-grp to be associated
qos-grp	Value 0-7
ingress	Specify Capture scope as Ingress
egress	Specify Capture scope as Egress
interface	Configure the Entity Interface
if_list	List of interfaces

### Command Mode

- /exec/configure/pkt-drop

## source

[no] source <ipaddr>

Syntax Description

source	Source configuration
ipaddr	IP Address to be configured

Command Mode

- /exec/configure/config-ssx-exporter

## source

{ [ no ] source <intf> | no source }

### Syntax Description

source	Source Interface for this destination
intf	Interface

### Command Mode

- /exec/configure/nfm-exporter

## source

{ [ no ] source <intf> | no source }

### Syntax Description

source	Source Interface for this destination
intf	Interface

### Command Mode

- /exec/configure/config-postcard-exporter

## source

source { <ipaddr> } | no source

### Syntax Description

no	Negate a command or set its defaults
source	source of tunnel packets
ipaddr	ip address (A.B.C.D)

### Command Mode

- /exec/configure/if-te

## 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
ip-addr	IP address in format i.i.i.i
ip-mask	IP network mask in format m.m.m.m
ip	(Optional) IP Protocol
udp	(Optional) UDP Protocol
tcp	(Optional) TCP Protocol
port_num	(Optional) Port Number
any	(Optional) Any Port Number
arp	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
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

## source forward-drops

[no] source forward-drops <src\_dir> [ priority-low ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
source	Source configuration
forward-drops	Forwarding drops
priority-low	(Optional) Drop span session is low priority relative to span acl and vlan sessions
src_dir	Source direction

### Command Mode

- /exec/configure/monitor-local-src /exec/configure/config-monitor  
/exec/configure/config-monitor-erspan-src

## source group permit

```
{ <seq> source <sourceip> group <range> { permit | deny } } | { no <seq> [ source <sourceip> group <range> { permit | deny } ] }
```

### Syntax Description

no	Negate a command or set its defaults
seq	Sequence Number
source	Source IP Address
sourceip	Source IP Address value
group	Configure explicit group ranges
range	Group Prefix
permit	Admission Permitted
deny	Admission Denied

### Command Mode

- /exec/configure/nbm-host-policy/pim

## source group permit

```
{ <seq> source <sourceip> group <range> { permit | deny } } | { no <seq> [ source <sourceip> group <range>
{ permit | deny } ] }
```

### Syntax Description

no	Negate a command or set its defaults
seq	Sequence Number
source	Source IP Address
sourceip	Source IP Address value
group	Configure explicit group ranges
range	Group Prefix
permit	Admission Permitted
deny	Admission Denied

### Command Mode

- /exec/configure/nbm-vrf/nbm-host-policy/pim

## source interface

[no] source { interface <interface\_range> } [ <src\_dir> ] [ allow-pfc ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
source	Source configuration
interface	Configure interfaces
interface_range	
src_dir	(Optional) Source direction
allow-pfc	(Optional) Enable SPAN on PFC frames

### Command Mode

- /exec/configure/monitor-local-src /exec/configure/config-monitor  
/exec/configure/config-monitor-erspan-src

## source interface

[no] source { interface <interface> } [ <src\_dir> ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
source	Source configuration
interface	Configure interfaces
interface	
src_dir	(Optional) Source direction

### Command Mode

- /exec/configure/monitor-local-src /exec/configure/config-monitor  
/exec/configure/config-monitor-erspan-src

# source ip

[no] source ip <ipaddress>

## Syntax Description

no	(Optional) Negate a command or set its defaults
source	Source IP address configuration
ip	Configure source IP address
ipaddress	

## Command Mode

- /exec/configure/config-monitor-erspan-dst

## source port

[no] source port <portnumber>

### Syntax Description

source	Specify the source port
port	Specify the source port
portnumber	Source port number

### Command Mode

- /exec/configure/nfm-profile



## source vlan

[no] source { vlan <vlan\_range> | vsan <vsan\_range> } [ <src\_dir> ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
source	Source configuration
vlan	Vlan type
vsan	Vsan type
vlan_range	
vsan_range	
src_dir	(Optional) Source direction

### Command Mode

- /exec/configure/monitor-local-src /exec/configure/config-monitor  
/exec/configure/config-monitor-erspan-src

## 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
port-bpdudfilter	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
port-bpduguard	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
bd-id	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
vlan-id	(Optional) vlan range, Example: 1,3-5,7,9-11
vlan-id	(Optional) vlan range, Example: 1,3-5,7,9-11
bd-id	(Optional) Bridge-Domain range, Example: 2,4-5,7,9-11
cost	Change an interface's spanning tree port path cost
port-cost	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
vlan-id	(Optional) vlan range, Example: 1,3-5,7,9-11
bd-id	(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
domain-id	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 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
guard-type	Change an interface's spanning tree guard mode

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
link-type-val	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
stp-mode	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 submenu

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 submode

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
mst-id	MST instance list, example 0,2-4,6,8-12
cost	Change an interface's spanning tree port path cost
port-cost	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
mst-id	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
fwd-time	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
hello-time-val	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
max-age-val	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
max-hops-val	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
mst-id	MST instance list, example 0,2-4,6,8-12
port-priority	Change an interface's spanning tree port priority
port-prio	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
mst-id	MST instance range, example: 0-3,5,7-9
priority	Set the bridge priority for the spanning tree
prio	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
mst-id	MST instance range, example: 0-3,5,7-9
diameter	(Optional) Network diameter of this spanning tree
diameter-val	(Optional) Maximum number of bridges between any two end nodes
root	configure switch as root
root-type	configure switch as root
hello-time	(Optional) Set the hello interval for the spanning tree
hello-time-val	(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
simpvst-disable	(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
method-val	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
vlan-id	(Optional) vlan range, Example: 1,3-5,7,9-11
bd-id	(Optional) Bridge-Domain range, Example: 2,4-5,7,9-11
port-priority	Change an interface's spanning tree port priority
port-prio	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
port-type	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 bpdu 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) bpduguard on this switch
default	Enable bpduguard 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 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
vlan-id	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
vlan-id	vlan range, Example: 1,3-5,7,9-11
bd-id	Bridge-Domain range, Example: 2,4-5,7,9-11
forward-time	Set the forward delay for the spanning tree
fwd-time	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
vlan-id	vlan range, Example: 1,3-5,7,9-11
bd-id	Bridge-Domain range, Example: 2,4-5,7,9-11
hello-time	Set the hello interval for the spanning tree
hello-time-val	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
vlan-id	vlan range, Example: 1,3-5,7,9-11
bd-id	Bridge-Domain range, Example: 2,4-5,7,9-11
max-age	Set the max age interval for the spanning tree
max-age-val	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
vlan-id	vlan range, Example: 1,3-5,7,9-11
bd-id	Bridge-Domain range, Example: 2,4-5,7,9-11
priority	Set the bridge priority for the spanning tree
prio	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
vlan-id	vlan range, Example: 1,3-5,7,9-11
bd-id	Bridge-Domain range, Example: 2,4-5,7,9-11
diameter	(Optional) Network diameter of this spanning tree
diameter-val	(Optional) Maximum number of bridges between any two end nodes
root	configure switch as root
root-type	configure switch as root
hello-time	(Optional) Set the hello interval for the spanning tree
hello-time-val	(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
gspeed_val	Interface port speed

## Command Mode

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

# speed

```
[no] speed [ { <speed_val> | auto [ 100 [ 1000 ] ] } ]
```

## Syntax Description

no	Negate a command or set its defaults
speed	Enter the port speed
speed_val	(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
i0	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
i0	Transmit and receive speeds

Command Mode

- /exec/configure/console

# speed

speed { <speed\_val> }

## Syntax Description

speed	Enter the port speed
speed_val	Interface port speed

## Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-non-member /exec/configure/if-port-channel /exec/configure/if-ethernet-p2p

# speed

speed { <speed\_val> }

## Syntax Description

speed	Enter the port speed
speed_val	Interface port speed

## Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-non-member /exec/configure/if-ethernet-p2p



# speed

speed { <speed\_val> }

## Syntax Description

speed	Enter the port speed
speed_val	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
speed_val	(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 /exec/configure/if-ethernet-p2p

# speed

speed { <speed\_val> }

## Syntax Description

speed	Enter the port speed
speed_val	Interface port speed

## Command Mode

- /exec/configure/if-mgmt-ether

# 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 /exec/configure/if-ethernet-p2p

## 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 /exec/configure/if-ethernet-p2p

# 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

# 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

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 /exec/configure/if-ethernet-p2p

# 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
max-wait	Maximum wait between trigger and SPF computation (milli-secs)
initial-wait	(Optional) Initial wait between trigger and SPF computation (milli-secs)
second-wait	(Optional) Second wait between trigger and SPF computation (milli-secs)

## Command Mode

- /exec/configure/l2mp-isis/l2mp-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
level	IS-IS level
max-wait	Maximum wait between trigger and SPF computation (milli-secs)
initial-wait	(Optional) Initial wait between trigger and SPF computation (milli-secs)
second-wait	(Optional) Second wait between trigger and SPF computation (milli-secs)

## Command Mode

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

# 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
max-wait	Maximum wait between trigger and SPF computation (milli-secs)
initial-wait	(Optional) Initial wait between trigger and SPF computation (milli-secs)
second-wait	(Optional) Second wait between trigger and SPF computation (milli-secs)

## Command Mode

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

# sport

{ sport <sval> | no sport }

## Syntax Description

no	Negate a command or set its defaults
sport	Outer UDP source port
sval	Source port

## Command Mode

- /exec/configure/configngoamconnectcheck

# sport

{ sport <sval> } | { no sport }

## Syntax Description

no	Negate a command or set its defaults
sport	Configure ngoam Udp source port range
sval	Udp source port range, max span 1024, Example: 2000-3000,400,500

## Command Mode

- /exec/configure/configngoamprofile

# src-intf

```
{ src-intf <src_if> }
```

## Syntax Description

src-intf	Interface on which the host with src ip of the payload is connected
src_if	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
s0	Enter hostname or user@hostname
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
s1	(Optional) Enter source ip address to bind
intf	(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	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
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	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
intf	(Optional)

## Command Mode

- /exec

# ssh all

[no] ssh { kexalgos | ciphers | macs | keytypes } all

## Syntax Description

no	(Optional) Negate a command or set its defaults
ssh	SSH to another system
kexalgos	key exchange methods that are used to generate per-connection keys
ciphers	ciphers to encrypt the connection
macs	message authentication codes used to detect traffic modification
keytypes	public key algorithms that the server can use to authenticate itself to the client
all	enable algorithms supported in current version of SSH

## Command Mode

- /exec/configure/

# 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 idle

```
{ ssh { idle-timeout <i0> } [ keepalive-count <i1> ] | no ssh idle-timeout }
```

### Syntax Description

no	Negate a command or set its defaults
ssh	SSH to another system
idle-timeout	SSH Client session idle timeout value
i0	Idle timeout value in seconds, 0 to disable, default is 0
keepalive-count	(Optional) Maximum count of SSH Keepalive packets to be sent to the ssh client
i1	(Optional) Count of SSH Keepalive packets sent to client, default is 0

### Command Mode

- /exec/configure/

# ssh key

```
{ ssh key { dsa [ force ] | rsa [ { <i0> | <oldrange> } [ force ] ] | ecdsa { <i0> } [ force ] } | no ssh key [ { dsa [ force ] | rsa [ { <i0> | <oldrange> } [ force ] ] | ecdsa [ { <i0> } [ 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
i0	(Optional) Enter number of bits (in multiples of 8)
oldrange	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
force	(Optional) Force the generation of keys even if previous ones are present
ecdsa	Generate ECDSA keys
i0	Enter key size in bits (256, 384 or 521)
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
d0	Specify max-attempt number

### Command Mode

- /exec/configure/

## ssh login-gracetime

```
{ { ssh login-gracetime <d0> } | { no ssh login-gracetime [ <d0> ] } }
```

### Syntax Description

no	Negate a command or set its defaults
ssh	SSH to another system
login-gracetime	Set login gracetime for ssh connection
d0	Specify grace time in seconds

### Command Mode

- /exec/configure/

# ssh port

```
{ ssh port { <port_number> } | no ssh port }
```

## Syntax Description

no	Negate a command or set its defaults
ssh	SSH to another system
port	Set port number for ssh
port_number	Specify port number

## Command Mode

- /exec/configure/



## ssh rekey max-data max-time

[no] ssh rekey max-data <data> max-time <time>

### Syntax Description

no	(Optional) Negate a command or set its defaults
ssh	SSH to another system
rekey	Renegotiate ssh key
max-data	data units are Kilo(K), Mega(M) and Giga(G)
data	Max data transmitted before key renegotiation
max-time	time units are Seconds(S), Minutes(M) and Hours(H)
time	Max time lapsed before key renegotiation

### Command Mode

- /exec/configure/

## ssx exporter

[no] ssx exporter <exportername>

Syntax Description

ssx	change ssx settings
exporter	ssx Exporter to be configured
exportername	ssx Exporter to be configured

Command Mode

- /exec/configure/config-ssx

## ssx monitor

[no] ssx monitor <monitorname>

Syntax Description

ssx	change ssx settings
monitor	ssx Monitor to be configured
monitorname	ssx Monitor to be configured

Command Mode

- /exec/configure/config-ssx

## ssx record

[no] ssx record <recordname>

Syntax Description

ssx	change ssx settings
record	ssx Record to be configured
recordname	ssx Record to be configured

Command Mode

- /exec/configure/config-ssx

## ssx system monitor

[no] ssx system monitor <monitorname>

### Syntax Description

ssx	change ssx settings
system	global config
monitor	ssx Monitor to be applied
monitorname	ssx Monitor to be applied

### Command Mode

- /exec/configure/config-ssx

## ssx system system-id

[no] ssx system system-id <systemid>

Syntax Description

ssx	change ssx settings
system	global config
system-id	ssx system-id to be applied
systemid	ssx system-id to be applied, default 0

Command Mode

- /exec/configure/config-ssx

# stage-flow

[no] stage-flow

Syntax Description

no	(Optional) Negate a command or set its defaults
stage-flow	Create flow on the switch without valid egress interface

Command Mode

- /exec/configure/nbm-vrf/nbm-flow-def

# stage-flow

[no] stage-flow

Syntax Description

no	(Optional) Negate a command or set its defaults
stage-flow	Create flow on the switch without valid egress interface

Command Mode

- /exec/configure/nbm-flow-def



# 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
ip-addr-first	(Optional) ITD node IPv4 address
IPv6	(Optional) IPv6 address

## Command Mode

- /exec/configure/itd-dg-node

# start-threshold

[no] start-threshold <start-threshold-rate>

Syntax Description

no	(Optional) Negate the command
start-threshold	Configure Start-threshold parameters in bytes
start-threshold-rate	Specify start threshold-rate

Command Mode

- /exec/configure/pkt-drop/profile

# start

start

Syntax Description

start	Start Trigger
-------	---------------

Command Mode

- /exec/elanms/sel3

# start

start

Syntax Description

start	Start Trigger
-------	---------------

Command Mode

- /exec/elamtah/insel6

# start

start

Syntax Description

start	Start Trigger
-------	---------------

Command Mode

- /exec/elamtah/insel7

# start

start

Syntax Description

start	Start Trigger
-------	---------------

Command Mode

- /exec/elamtah/insel8

# start

start

Syntax Description

start	Start Trigger
-------	---------------

Command Mode

- /exec/elamtah/inse19

# start

start

Syntax Description

start	Start Trigger
-------	---------------

Command Mode

- /exec/elamtah/insel10



# start

start

Syntax Description

start	Start Trigger
-------	---------------

Command Mode

- /exec/elamtah/insel19

# start

start

Syntax Description

start	Start Trigger
-------	---------------

Command Mode

- /exec/elamtah/outsel0

# start

start

Syntax Description

start	Start Trigger
-------	---------------

Command Mode

- /exec/elamtah/outsell

# start

start

Syntax Description

start	Start Trigger
-------	---------------

Command Mode

- /exec/elamtah/outsel2

# start

start

Syntax Description

start	Start Trigger
-------	---------------

Command Mode

- /exec/elanms/sel4

# start

start

Syntax Description

start	Start Trigger
-------	---------------

Command Mode

- /exec/eramns/se15

# start

start

Syntax Description

start	Start Trigger
-------	---------------

Command Mode

- /exec/elanms/sel6

# start

start

Syntax Description

start	Start Trigger
-------	---------------

Command Mode

- /exec/elamns/se17



# start

start

Syntax Description

start	Start Trigger
-------	---------------

Command Mode

- /exec/elanms/outsel0

# start

start

Syntax Description

start	Start Trigger
-------	---------------

Command Mode

- /exec/elamns/outse15

# state

state <vstate> | no state

## Syntax Description

no	Negate a command or set its defaults
state	Operational state of the VLAN
vstate	

## Command Mode

- /exec/configure/vlan

# 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

# statistics

[no] statistics

Syntax Description

no	(Optional) Negate a command or set its defaults
----	---

Command Mode

- /exec/configure/macac1

# 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 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
interval-val	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/mplsacl

## 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
time-in-sec	Delay value

Command Mode

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

# status

status

Syntax Description

status	Status of Trigger
--------	-------------------

Command Mode

- /exec/elamns/se17

# status

status

Syntax Description

status	Status of Trigger
--------	-------------------

Command Mode

- /exec/elamns/sel3

# status

status

Syntax Description

status	Status of Trigger
--------	-------------------

Command Mode

- /exec/elamns/se14



# status

status

Syntax Description

status	Status of Trigger
--------	-------------------

Command Mode

- /exec/elamns/sel5

# status

status

Syntax Description

status	Status of Trigger
--------	-------------------

Command Mode

- /exec/elamns/se16

# status

status

Syntax Description

status	Status of Trigger
--------	-------------------

Command Mode

- /exec/elanms/outse0

# status

status

Syntax Description

status	Status of Trigger
--------	-------------------

Command Mode

- /exec/elamns/outse15

# stop-threshold

[no] stop-threshold <stop-threshold-rate>

Syntax Description

no	(Optional) Negate the command
stop-threshold	Configure Stop-threshold parameters in bytes
stop-threshold-rate	

Command Mode

- /exec/configure/pkt-drop/profile

# stopbits

[no] stopbits <stopbits-value>

Syntax Description

no	(Optional) Negate a command or set its defaults
stopbits	Set async line stopbits
stopbits-value	async line stopbits value

Command Mode

- /exec/configure/console

# 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

## 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
pps	value in packets per sec

Command Mode

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



# streetaddress

{ streetaddress <line> | no streetaddress }

## Syntax Description

no	Negate a command or set its defaults
streetaddress	Configure replacement part shipping address.
line	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	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
stub	Set IP-EIGRP as stubbed router
direct	(Optional) Do advertise connected routes
connected	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
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
leak-map	(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
subswitch-id	Logical subswitch-id(2 to 10)
vlan	VLAN-id or VLAN-range
vlan-id	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
sub-id	Identifier

Command Mode

- /exec/configure/telemetry

# 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
tagval	(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

## 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
ip-addr	IP summary address
ip-mask	IP summary mask
ip-prefix	IP summary prefix
level	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
level	Level to summarize into

## Command Mode

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

## 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
ip-dest	IP prefix format: i.i.i.i
ip-mask	IP network mask format: m.m.m.m
ip-prefix	IP prefix format: x.x.x.x/ml
tag	(Optional) 32-bit tag value
tagval	(Optional) 32-bit tag value
not-advertise	(Optional) Suppress advertising the specified summary

### Command Mode

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



## suppress-arp

[no] suppress-arp [ disable ]

Syntax Description

no	(Optional) Negate a command or set its defaults
suppress-arp	Enable ARP suppression
disable	(Optional) Override the global ARP suppression config

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

# 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-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-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-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
asid	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)
i0	Priority of the switch(0-highest 7-lowest)

## Command Mode

- /exec/configure/callhome

# 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-profile

switch-profile <s0>

Syntax Description

switch-profile	Enter switch-profile configuration mode
s0	Enter the name of the switch-profile

Command Mode

- /exec/configure

# switch-role border-leaf

[no] switch-role border-leaf

Syntax Description

no	(Optional) Negate a command or set its defaults
switch-role	Switch Role
border-leaf	Border Leaf

Command Mode

- /exec/configure/nbm-controller

# 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
controller-id	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
switch-id	Logical switch-id
pipeline	Select forwarding profile, use 'show openflow hardware capabilities' for choices
pipeline-id	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

[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

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 access vlan

switchport access vlan <vlan-id-access> | no switchport access vlan

Syntax Description

no	Negate a command or set its defaults
switchport	Configure switchport parameters
access	Set access mode characteristics of the interface
vlan	Set VLAN when interface is in access mode
vlan-id-access	VLAN ID of the VLAN when this port is in access mode

Command Mode

- /exec/configure/if-eth-port-channel-switch

## switchport access vlan

switchport access vlan <vlan-id-access> | no switchport access vlan

Syntax Description

no	Negate a command or set its defaults
switchport	Configure switchport parameters
access	Set access mode characteristics of the interface
vlan	Set VLAN when interface is in access mode
vlan-id-access	VLAN ID of the VLAN when this port is in access mode

Command Mode

- /exec/configure/if-ethernet-switch /exec/configure/if-ethernet-p2p-switch  
/exec/configure/if-remote-ethernet-switch

# switchport access vlan

switchport access vlan <vlan-id-access> | no switchport access vlan

## Syntax Description

no	Negate a command or set its defaults
switchport	Configure switchport parameters
access	Set access mode characteristics of the interface
vlan	Set VLAN when interface is in access mode
vlan-id-access	VLAN ID of the VLAN when this port is in access mode

## Command Mode

- /exec/configure/if-ethernet-all

## 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
exclude-vlans	(Optional) VLAN IDs of the VLANs to auto-state exclude on this interface
add	(Optional) add VLANs to except list
add-vlans	(Optional) VLAN IDs of the VLANs to auto-state exclude on this interface
except	(Optional) List of VLANs to excepted from auto-state exclude
except-vlans	(Optional) VLAN IDs of the VLANs to auto-state exclude on this interface
remove	(Optional) remove VLANs from except list
remove-vlans	(Optional) VLAN IDs of the VLANs to auto-state exclude on this interface
all	(Optional) Exclude all VLANs
none	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
dummy	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

### 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 backup interface

[no] switchport backup interface <if0> [ \_\_readonly\_\_ <from\_snmp> ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
switchport	Configure switchport parameters
backup	Set backup for the interface
interface	Specify an interface as backup
if0	Enter interface name
__readonly__	(Optional) Read Only
from_snmp	(Optional) Configuration comes from SNMP

## Command Mode

- /exec/configure/if-ethernet-switch /exec/configure/if-eth-port-channel-switch

## switchport backup interface

[no] switchport backup interface <if0> [ \_\_readonly\_\_ <from\_snmp> ]

Syntax Description

no	(Optional) Negate a command or set its defaults
switchport	Configure switchport parameters
backup	Set backup for the interface
interface	Specify an interface as backup
if0	Enter interface name
__readonly__	(Optional) Read Only
from_snmp	(Optional) Configuration comes from SNMP

Command Mode

- /exec/configure/if-ethernet-switch /exec/configure/if-eth-port-channel-switch

# switchport backup interface multicast fast-convergence

[no] switchport backup interface <if0> multicast fast-convergence

## Syntax Description

no	(Optional) Negate a command or set its defaults
switchport	Configure switchport parameters
backup	Set backup for the interface
interface	Specify an interface as backup
if0	Enter interface name
multicast	multicast parameters
fast-convergence	configure fast convergence on backup interface

## Command Mode

- /exec/configure/if-ethernet-switch /exec/configure/if-eth-port-channel-switch

## switchport backup interface multicast fast-convergence

[no] switchport backup interface <if0> multicast fast-convergence

Syntax Description

no	(Optional) Negate a command or set its defaults
switchport	Configure switchport parameters
backup	Set backup for the interface
interface	Specify an interface as backup
if0	Enter interface name
multicast	multicast parameters
fast-convergence	configure fast convergence on backup interface

Command Mode

- /exec/configure/if-ethernet-switch /exec/configure/if-eth-port-channel-switch

# switchport backup interface preemption delay

{ switchport backup interface <if0> preemption delay <delay\_secs> } | { no switchport backup interface <if0> preemption delay }

## Syntax Description

no	Negate a command or set its defaults
switchport	Configure switchport parameters
backup	Set backup for the interface
interface	Specify an interface as backup
if0	Enter interface name
preemption	preemption parameters
delay	preemption parameters
preemption	delay
delay_secs	preemption delay in seconds

## Command Mode

- /exec/configure/if-ethernet-switch /exec/configure/if-eth-port-channel-switch

## switchport backup interface preemption delay

{ switchport backup interface <if0> preemption delay <delay\_secs> } | { no switchport backup interface <if0> preemption delay }

### Syntax Description

no	Negate a command or set its defaults
switchport	Configure switchport parameters
backup	Set backup for the interface
interface	Specify an interface as backup
if0	Enter interface name
preemption	preemption parameters
delay	preemption parameters
preemption	delay
delay_secs	preemption delay in seconds

### Command Mode

- /exec/configure/if-ethernet-switch /exec/configure/if-eth-port-channel-switch

## switchport backup interface preempt mode

{ switchport backup interface <if0> preempt mode <preempt\_mode> } | { no switchport backup interface <if0> preempt mode }

### Syntax Description

no	Negate a command or set its defaults
switchport	Configure switchport parameters
backup	Set backup for the interface
interface	Specify an interface as backup
if0	Enter interface name
preempt	preemption parameters
mode	set the preempt mode
preempt	mode
preempt_mode	preemption mode

### Command Mode

- /exec/configure/if-ethernet-switch /exec/configure/if-eth-port-channel-switch

## switchport backup interface preemption mode

{ switchport backup interface <if0> preemption mode <preempt\_mode> } | { no switchport backup interface <if0> preemption mode }

### Syntax Description

no	Negate a command or set its defaults
switchport	Configure switchport parameters
backup	Set backup for the interface
interface	Specify an interface as backup
if0	Enter interface name
preemption	preemption parameters
mode	set the preemption mode
preemption	mode
preempt_mode	preemption mode

### Command Mode

- /exec/configure/if-ethernet-switch /exec/configure/if-eth-port-channel-switch



# switchport beacon

[no] switchport beacon

Syntax Description

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

Command Mode

- /exec/configure/if-fc /exec/configure/if-bay /exec/configure/if-ext /exec/configure/if-legacy-eth

## 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 description

switchport description <desc\_line> | no switchport description [ <desc\_line> ]

## Syntax Description

no	Negate a command or set its defaults
switchport	Configure switchport parameters
description	Enter description of maximum 254 characters
desc_line	Description of maximum 254 characters

## Command Mode

- /exec/configure/if-iscsi /exec/configure/if-fcip /exec/configure/if-fc /exec/configure/if-bay /exec/configure/if-ext /exec/configure/if-gig-ether /exec/configure/if-fa /exec/configure/if-fv /exec/configure/if-san-port-channel /exec/configure/if-sme /exec/configure/if-ioa /exec/configure/if-gig-ether-sub /exec/configure/if-vfc /exec/configure/if-vfc-port-channel

## 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
any	Any EtherType

### Command Mode

- /exec/configure/if-eth-l2-non-member /exec/configure/if-ethernet-all

## switchport dot1q ether-type

switchport dot1q ether-type { 0x8100 | 0x88A8 | 0x9100 | <any> } | no switchport dot1q ether-type [ <any> ]

### Syntax Description

no	Negate a command or set its defaults
switchport	Configure switchport parameters
dot1q	Configure dot1q EtherType value
ether-type	Configure dot1q EtherType value
0x8100	Default EtherType for 802.1q frames
0x88A8	EtherType for 802.1ad double tagged frames
0x9100	EtherType for QinQ frames
any	Any EtherType

### Command Mode

- /exec/configure/if-eth-port-channel-switch

## switchport duplex

{ switchport duplex { auto | full | half } | no switchport duplex [ { auto | full | half } ] }

### Syntax Description

no	Negate a command or set its defaults
switchport	Configure switchport parameters
duplex	Enter the port duplex mode
auto	auto negotiate duplex mode
full	full duplex mode
half	half duplex mode

### Command Mode

- /exec/configure/if-legacy-eth /exec/configure/if-mgmt-ether

# 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-12-non-member /exec/configure/if-ethernet-switch  
/exec/configure/if-ethernet-switch-m /exec/configure/if-ethernet-all

## switchport ignore bit-errors

{ switchport ignore bit-errors | no switchport ignore bit-errors }

### Syntax Description

no	Negate a command or set its defaults
switchport	Configure switchport parameters
ignore	Enter parameter to be ignored
bit-errors	ignore bit-errors

### Command Mode

- /exec/configure/if-fc /exec/configure/if-bay /exec/configure/if-ext



# 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-12-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-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
port_mode	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
port_mode	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 [ <port\_mode> ]

## Syntax Description

no	Negate a command or set its defaults
switchport	Configure switchport parameters
mode	Enter the port mode
port_mode	Port mode

## Command Mode

- /exec/configure/if-fc /exec/configure/if-bay /exec/configure/if-ext

# switchport mode

switchport mode <port\_mode> | no switchport mode [ <port\_mode> ]

## Syntax Description

no	Negate a command or set its defaults
switchport	Configure switchport parameters
mode	Enter the port mode
port_mode	Port mode

## Command Mode

- /exec/configure/if-fcip

# switchport mode

switchport mode <port\_mode> | no switchport mode [ <port\_mode> ]

## Syntax Description

no	Negate a command or set its defaults
switchport	Configure switchport parameters
mode	Enter the port mode
port_mode	Port mode

## Command Mode

- /exec/configure/if-san-port-channel

# switchport mode

switchport mode <port\_mode> | no switchport mode [ <port\_mode> ]

## Syntax Description

no	Negate a command or set its defaults
switchport	Configure switchport parameters
mode	Enter the port mode
port_mode	Port mode

## Command Mode

- /exec/configure/if-vfc /exec/configure/if-vfc-port-channel



# 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
value	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
port_mode	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
trunk_mode	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 monitor

switchport monitor [ ingress [ learning ] ] | no switchport monitor

## Syntax Description

no	Negate a command or set its defaults
switchport	Configure switchport parameters
monitor	Configures an interface as span-destination
ingress	(Optional) Enables the forwarding on incoming packets
learning	(Optional) Enables mac-learning

## Command Mode

- /exec/configure/if-eth-l2-non-member /exec/configure/if-ethernet-all  
/exec/configure/if-eth-port-channel-switch

## switchport mtu

{ switchport mtu <i0> | no switchport mtu [ <i0> ] }

### Syntax Description

no	Negate a command or set its defaults
switchport	Configure switchport parameters
mtu	Configure mtu for the port
i0	Enter mtu

### Command Mode

- /exec/configure/if-gig-ether-sub /exec/configure/if-legacy-eth

# switchport owner

```
{ switchport owner { <owner_str> } | no switchport owner }
```

## Syntax Description

no	Negate a command or set its defaults
switchport	Configure switchport parameters
owner	Specify the owner of an interface
owner_str	Owner of maximum 80 characters

## Command Mode

- /exec/configure/if-fc /exec/configure/if-bay /exec/configure/if-ext /exec/configure/if-vfc /exec/configure/if-vfc-port-channel

# 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
value	Aging time in minutes. Enter a value between 1 and 1440

### 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
mac-address	48 bit mac address format HHHH.HHHH.HHHH
vlan	(Optional) Vlan on which the mac address should be secured
vlanid	(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
value	Maximum addresses 1 to 1025
vlan	(Optional) Vlan on which the mac address should be secured
vlanid	(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 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
primary-vlan	Primary VLAN ID
secondary-vlan	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
primary-vlan	Primary VLAN ID
secondary-vlan	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
primary-vlan	Primary private VLAN
secondary_vlans	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
primary-vlan	Primary private VLAN
secondary_vlans	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
allowed-vlans	VLAN IDs of the allowed VLANs when interface is in private-vlan trunking mode
add	add VLANs to the current list
add-vlans	VLAN IDs of the allowed VLANs when interface is in private-vlan trunking mode
except	all VLANs except the following
except-vlans	VLAN IDs of disallowed VLANs when this port is in trunking mode
remove	remove VLANs from the current list
remove-vlans	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
no-allowed-vlans	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
native-vlan	native vlan id

### Command Mode

- /exec/configure/if-switching /exec/configure/if-eth-port-channel-switch

## switchport promiscuous-mode off

switchport promiscuous-mode { off | on }

### Syntax Description

switchport	Configure switchport parameters
promiscuous-mode	Configure promiscuous mode for the port
off	Disable promiscuous mode
on	Enable promiscuous mode

### Command Mode

- /exec/configure/if-gig-ether-sub /exec/configure/if-legacy-eth

# switchport speed

```
{ switchport speed { 1000 | 2000 | 4000 | 8000 | 10000 | 16000 | 32000 | auto [ max { 20001 | 40001 | 80001 | 160001 | 320001 } ] } | no switchport speed [ { 1000 | 2000 | 4000 | 8000 | 10000 | 16000 | 32000 | auto [ max { 20001 | 40001 | 80001 | 160001 | 320001 } ] } ] }
```

## Syntax Description

no	Negate a command or set its defaults
switchport	Configure switchport parameters
speed	Enter the port speed
1000	1000 Mbps speed
2000	2000 Mbps speed
4000	4000 Mbps speed
8000	8000 Mbps speed
10000	10000 Mbps speed
16000	16000 Mbps speed
32000	32000 Mbps speed
auto	auto negotiate speed
max	(Optional) Maximum speed
20001	(Optional) Maximum speed is 2000
40001	(Optional) Maximum speed is 4000
80001	(Optional) Maximum speed is 8000
160001	(Optional) Maximum speed is 16000
320001	(Optional) Maximum speed is 32000

## Command Mode

- /exec/configure/if-fc /exec/configure/if-bay /exec/configure/if-ext /exec/configure/if-san-port-channel

# switchport speed

{ switchport speed { 10 | 100 | 1000 | auto } | no switchport speed [ { 10 | 100 | 1000 | auto } ] }

## Syntax Description

no	Negate a command or set its defaults
switchport	Configure switchport parameters
speed	Enter the port speed
10	10 Mbps speed
100	100 Mbps speed
1000	1000 Mbps speed
auto	auto negotiate speed

## Command Mode

- /exec/configure/if-mgmt-ether

# switchport trunk allowed vlan

switchport trunk allowed vlan { <allow-vlans> | add <add-vlans> | except <except-vlans> | remove <remove-vlans> | all | none } | no switchport trunk allowed vlan

## Syntax Description

no	Negate a command or set its defaults
switchport	Configure switchport parameters
trunk	Configure trunking parameters on an interface
allowed	Set allowed VLAN characteristics when interface is in trunking mode
vlan	Set allowed VLANs when interface is in trunking mode
allow-vlans	VLAN IDs of the allowed VLANs when this port in trunking mode
add	add VLANs to the current list
add-vlans	VLAN IDs of the allowed VLANs when this port in trunking mode
all	all VLANs
except	all VLANs except the following
except-vlans	VLAN IDs of the allowed VLANs when this port in trunking mode
none	no VLANs
remove	remove VLANs from the current list
remove-vlans	VLAN IDs of the allowed VLANs when this port in trunking mode

## Command Mode

- /exec/configure/if-ethernet-switch /exec/configure/if-ethernet-p2p-switch  
/exec/configure/if-remote-ethernet-switch /exec/configure/if-ethernet-all  
/exec/configure/if-eth-port-channel-switch

## switchport trunk allowed vsan

```
{ switchport trunk allowed vsan { add <i0> | all | <i1> [ no-warning ] } | no switchport trunk allowed vsan [
{ add <i0> | all | <i1> } ] }
```

### Syntax Description

no	Negate a command or set its defaults
switchport	Configure switchport parameters
trunk	Configure trunking parameters on an interface
allowed	Configure allowed list for interface(s)
vsan	Configure allowed list for interface(s)
add	give VSAN id range to add to allowed vsan list
i0	VSAN id range
all	add all the vsans to allowed vsan list
i1	VSAN id range
no-warning	(Optional) Avoid displaying a warning message and user prompt for this command

### Command Mode

- /exec/configure/if-fc /exec/configure/if-san-port-channel /exec/configure/if-fcipc /exec/configure/if-svc /exec/configure/if-bay /exec/configure/if-ext



## switchport trunk allowed vsan

```
{ switchport trunk allowed vsan { add <i0> | all | <i1> [ no-warning ] } | no switchport trunk allowed vsan [
{ add <i0> | all | <i1> } ] }
```

### Syntax Description

no	Negate a command or set its defaults
switchport	Configure switchport parameters
trunk	Configure trunking parameters on an interface
allowed	Configure allowed list for interface(s)
vsan	Configure allowed list for interface(s)
add	give VSAN id range to add to allowed vsan list
i0	VSAN id range
all	add all the vsans to allowed vsan list
i1	VSAN id range
no-warning	(Optional) Avoid displaying a warning message and user prompt for this command

### Command Mode

- /exec/configure/if-vfc

# switchport trunk mode

```
{ switchport trunk mode { <trunk_mode> } | no switchport trunk mode [ { <trunk_mode> } ] }
```

## Syntax Description

no	Negate a command or set its defaults
switchport	Configure switchport parameters
trunk	Configure trunking parameters on an interface
mode	Configure trunking mode
trunk_mode	Trunk mode

## Command Mode

- /exec/configure/if-fc /exec/configure/if-bay /exec/configure/if-ext /exec/configure/if-fcip /exec/configure/if-san-port-channel

# switchport trunk mode

```
{ switchport trunk mode { <trunk_mode> } | no switchport trunk mode [ { <trunk_mode> } ] }
```

## Syntax Description

no	Negate a command or set its defaults
switchport	Configure switchport parameters
trunk	Configure trunking parameters on an interface
mode	Configure trunking mode
trunk_mode	Trunk mode

## Command Mode

- /exec/configure/if-vfc /exec/configure/if-vfc-port-channel

## switchport trunk native vlan

switchport trunk native vlan <vlan-id-native> | no switchport trunk native vlan

Syntax Description

no	Negate a command or set its defaults
switchport	Configure switchport parameters
trunk	Configure trunking parameters on an interface
native	Set trunking native characteristics when interface is in trunking mode
vlan	Set native VLAN when interface is in trunking mode
vlan-id-native	VLAN ID of the native VLAN when this port is in trunking mode

Command Mode

- /exec/configure/if-ethernet-switch /exec/configure/if-ethernet-p2p-switch  
/exec/configure/if-remote-ethernet-switch /exec/configure/if-ethernet-all  
/exec/configure/if-eth-port-channel-switch

# switchport trunk pruning vlan except add remove none all

{ no switchport trunk pruning vlan [ <vlan-ids> ] | switchport trunk pruning vlan <vlan-ids> | switchport trunk pruning vlan except <vlan-ids> | switchport trunk pruning vlan add <vlan-ids> | switchport trunk pruning vlan remove <vlan-ids> | switchport trunk pruning vlan none | switchport trunk pruning vlan all }

## Syntax Description

no	Negate a command or set its defaults
switchport	Configure switchport parameters
trunk	Configure trunking parameters on an interface
pruning	Set pruning VLAN characteristics when interface is in trunking mode
vlan	Enter VLANs
add	add VLANs to the current list
remove	remove VLANs from the current list
except	all VLANs except the following
none	no VLANs
all	all VLANs
vlan-ids	(Optional) Enter VLANs

## Command Mode

- /exec/configure/if-switching

# 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-l2-non-member /exec/configure/if-ethernet-all  
/exec/configure/if-eth-port-channel-switch

# switchport vlan mapping

[no] switchport vlan mapping <vlan-id-orig> [ inner <vlan-id-inner> ] <vlan-id-translated>

## Syntax Description

no	(Optional) Negate a command or set its defaults
switchport	Configure switchport parameters
vlan	Set VLAN translation mapping
mapping	VLAN translation mapping
vlan-id-orig	VLAN ID 1-3967
inner	(Optional) inner vlanid
vlan-id-inner	(Optional) Inner VLAN ID
vlan-id-translated	Translated VLAN ID

## Command Mode

- /exec/configure/if-ethernet-switch /exec/configure/if-ethernet-p2p-switch  
/exec/configure/if-remote-ethernet-switch /exec/configure/if-ethernet-all  
/exec/configure/if-eth-port-channel-switch

## switchport vlan mapping all

[no] switchport vlan mapping all

Syntax Description

no	Negate a command or set its defaults
switchport	Configure switchport parameters
vlan	Set VLAN translation mapping
mapping	VLAN translation mapping
all	all VLANs

Command Mode

- /exec/configure/if-ethernet-switch /exec/configure/if-ethernet-p2p-switch  
/exec/configure/if-remote-ethernet-switch /exec/configure/if-ethernet-all  
/exec/configure/if-eth-port-channel-switch



## switchport vlan mapping all dot1q-tunnel

[no] switchport vlan mapping all dot1q-tunnel <vlan-id-translated>

### Syntax Description

no	(Optional) Negate a command or set its defaults
switchport	Configure switchport parameters
vlan	Set VLAN translation mapping
mapping	VLAN translation mapping
all	all VLANs
dot1q-tunnel	selective dot1q-tunnel
vlan-id-translated	Translated VLAN ID

### Command Mode

- /exec/configure/if-ethernet-switch /exec/configure/if-ethernet-p2p-switch  
/exec/configure/if-remote-ethernet-switch /exec/configure/if-ethernet-all  
/exec/configure/if-eth-port-channel-switch

## switchport vlan mapping dot1q-tunnel

[no] switchport vlan mapping <vlan-id-orig2> dot1q-tunnel <vlan-id-translated>

Syntax Description

no	(Optional) Negate a command or set its defaults
switchport	Configure switchport parameters
vlan	Set VLAN translation mapping
mapping	VLAN translation mapping
vlan-id-orig2	VLAN ID 1-4094 or Vlan range(s): 1-5, 10 or 2-5,7-19 for Selective dot1q-tunnel
dot1q-tunnel	selective dot1q-tunnel
vlan-id-translated	Translated VLAN ID

Command Mode

- /exec/configure/if-ethernet-switch /exec/configure/if-ethernet-p2p-switch  
/exec/configure/if-remote-ethernet-switch /exec/configure/if-ethernet-all  
/exec/configure/if-eth-port-channel-switch

## switchport vlan mapping dot1q-tunnel allowed-vlan

[no] switchport vlan mapping dot1q-tunnel allowed-vlan <vlan-id-list>

### Syntax Description

no	(Optional) Negate a command or set its defaults
switchport	Configure switchport parameters
vlan	Set VLAN translation mapping
mapping	VLAN translation mapping
dot1q-tunnel	selective dot1q-tunnel
allowed-vlan	Set allowed VLAN characteristics when interface is in trunking mode
vlan-id-list	VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19

### Command Mode

- /exec/configure/if-ethernet-switch /exec/configure/if-ethernet-p2p-switch  
/exec/configure/if-remote-ethernet-switch /exec/configure/if-ethernet-all  
/exec/configure/if-eth-port-channel-switch

# switchport vlan mapping enable

[no] switchport vlan mapping enable

Syntax Description

no	(Optional) Negate a command or set its defaults
switchport	Configure switchport parameters
vlan	Set VLAN translation mapping
mapping	VLAN translation mapping
enable	enable/disable VLAN translation

Command Mode

- /exec/configure/if-ethernet-switch /exec/configure/if-ethernet-p2p-switch  
/exec/configure/if-remote-ethernet-switch /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
e-vdc2	Enter Virtual Device Context <vdc-id>
__readonly__	(Optional) Read Only
force	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
vdc_id	(Optional) Enter Virtual Device Context <vdc-id>
invalid_vdc_id	(Optional) Enter Virtual Device Context <vdc-id>
noauth_vdc_id	(Optional) Enter Virtual Device Context <vdc-id>
no_first	(Optional) Enter Virtual Device Context <vdc-id>
bypass	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

### 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
dst-ip	IPv4 address (A.B.C.D) of destination
source	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
src-ip	(Optional) IPv4 address (A.B.C.D) of source
vrf	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
vrf-name	(Optional) vrf to be used

### Command Mode

- /exec/configure

## system-mac

[no] system-mac <mac-addr>

Syntax Description

no	(Optional) Negate a command or set its defaults
system-mac	Mac Address
mac-addr	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
sysmac	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
syspri	specify system priority

Command Mode

- /exec/configure/vpc-domain

# system

```
[no] system { default switchport { mode F | trunk mode1 { auto | off | on } } | delayed-traps { enable mode2
FX | timer <i0> } }
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
system	System configuration commands
default	Configure system default values
switchport	Configure default values for switchport attributes
mode	Enter the port mode
F	F system default port mode
trunk	Configure trunking parameters as a default
mode1	Configure trunking mode
auto	Autosense trunking
off	Disable trunking
on	Enable trunking
delayed-traps	Configure system delayed trap values
enable	Configure system delayed trap state
mode2	Configure system delayed trap state
FX	Configure system delayed trap state
timer	Configure system delayed trap timeout value
i0	Configure number of minutes

## 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
time	(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
uri0	Select destination filesystem
uri1	Select destination filesystem
vrf	Enter the vrf name
vrf-known-name	VRF name

### Command Mode

- /exec/configure

# system default interface-vlan autostate

[no] system default interface-vlan autostate

Syntax Description

no	(Optional) Negate a command or set its defaults
system	System configuration commands
interface-vlan	Configure interface-vlan
default	Configure system default values
autostate	Enable or disable autostate for entire system

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
i0	Configure number of milliseconds
i1	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 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
i0	Configure number of milliseconds
i1	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 default tx-credit double-queue

[no] system default tx-credit double-queue

Syntax Description

no	(Optional) Negate a command or set its defaults
system	System configuration commands
default	Configure system default values
tx-credit	Configure default values for tx credit queue type
double-queue	Configure tx credit queue as double queue

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 fabric core-vlans

{ system fabric core-vlans <id> | no system fabric core-vlans }

### Syntax Description

no	Negate a command or set its defaults
system	System management commands
fabric	Manage fabric dynamic vlan ranges
core-vlans	Configure the dynamic core vlan range
id	VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19

### Command Mode

- /exec/configure

## system fabric dynamic-vlans

{ system fabric dynamic-vlans <id> | no system fabric dynamic-vlans }

### Syntax Description

no	Negate a command or set its defaults
system	System management commands
fabric	Manage fabric dynamic vlan ranges
dynamic-vlans	Configure the dynamic server and core vlan range
id	VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19

### Command Mode

- /exec/configure

## system fast-reload stabilization-timer

{ system fast-reload stabilization-timer <time> | no system fast-reload stabilization-timer }

### Syntax Description

no	Negate a command or set its defaults
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
time	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 no heartbeat

Syntax Description

system	System management commands
no	Negate a command or set its defaults
heartbeat	enables heartbeat

Command Mode

- /exec

# system heartbeat

system heartbeat

Syntax Description

system	System management commands
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 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 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
mtu	Enter jumbomtu

## Command Mode

- /exec/configure

# 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
i1	Time period in seconds
attempts	Set max number of fail attempts
i2	Fail attempts max value
within	Watch period for fail attempts
i3	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
access-list	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
minor	please enter minor memory threshold as % memory
severe	enter severe treshold
severe	please enter severe memory threshold as % memory
critical	enter critical treshold
crit	please enter critical memory threshold as % memory

### Command Mode

- /exec/configure

# 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 maint-delay

[no] system mode maintenance maint-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
maint-delay	delay to allow protocol reroute before releasing CLI
delay-value	delay value in seconds

## 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
reason	

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
delay-value	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
timer-value	timer value in minutes

Command Mode

- /exec/configure

# system modifications throttle

[no] system modifications { throttle | permit }

## Syntax Description

no	(Optional) Negate a command or set its defaults
system	Controls what NXSDK is allowed to do to the system
modifications	Actions that change the state of the system
throttle	Throttle all write API calls
permit	Permit all write API calls

## Command Mode

- /exec/configure/nxsdk-profile

## 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 module failure-action shutdown multibit-parity

[no] system module failure-action shutdown multibit-parity

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
multibit-parity	Shutdown module if two or more bits parity error is detected

Command Mode

- /exec/configure

# system mrouting

[no] system mrouting [ performance-mode | disable-2nd-update | disable-l2-update ]

Syntax Description

no	(Optional) Negate a command or set its defaults
system	System Management Commands
mrouting	Layer-3 mrouting
performance-mode	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
disable-2nd-update	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
disable-l2-update	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

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
size	ipmc allowed size
default	Default size is 3000

### Command Mode

- /exec/configure

## system poap

system no poap

Syntax Description

system	System management commands
no	Negate a command or set its defaults
poap	This will set a boot flag, that will allow disabling POAP permanently even when the system starts with no configuration

Command Mode

- /exec



# system poap

system poap

Syntax Description

system	System management commands
poap	Re-enable POAP on every write erase+reload

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 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 security compliance common-criteria

[no] system security compliance common-criteria

Syntax Description

no	(Optional) Negate a command or set its defaults
system	System Management commands
security	Security Management commands
compliance	Compliant with the mode configured
common-criteria	Enable/Disable common-criteria mode

Command Mode

- /exec/configure

# system security sudo prompt-password

[no] system security sudo prompt-password

Syntax Description

no	(Optional) Negate a command or set its defaults
system	System Management commands
security	Security Management commands
sudo	sudoers related commands
prompt-password	Prompt for password when sudo is used

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 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 unlock

system startup-config unlock <i0>

Syntax Description

system	System management commands
startup-config	System startup-config commands
unlock	Unlock startup-config
i0	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
mode	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 timeout

```
{ system timeout { congestion-drop { <i0> mode <port_mode> | default mode <port_mode> } | no-credit-drop
{ <i1> mode1 <port_mode1> | default mode1 <port_mode1> } } | no system timeout no-credit-drop mode1
<port_mode1> }
```

### Syntax Description

no	Negate a command or set its defaults
system	System configuration commands
timeout	Configure system timeout values
congestion-drop	Configure system timeout values for congestion drop
i0	Configure number of milliseconds
default	Default timeout value for congestion-drop
mode	Enter the port mode
port_mode	Port mode
no-credit-drop	Configure system timeout values for no credit drop
i1	Configure number of milliseconds
default	Default timeout value for no-credit-drop
mode1	Enter the port mode
port_mode1	Port mode

### Command Mode

- /exec/configure

## 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
i0	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 long-name

[no] system vlan long-name

Syntax Description

no	(Optional) Negate a command or set its defaults
system	System management commands
vlan	Vlan commands
long-name	Configure 128 character VLAN names

Command Mode

- /exec/configure

## system vlan nve-overlay id

[no] system vlan nve-overlay id [ <vrangle> ] | system vlan nve-overlay id <vrangle>

### Syntax Description

no	Negate a command or set its defaults
system	System management commands
vlan	Vlan commands
nve-overlay	nve overlay vlan
id	VLAN ID
vrangle	(Optional) VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19

### 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
start-val	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 watchdog

Syntax Description

system	System management commands
watchdog	enables watchdog

Command Mode

- /exec



# 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 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 <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
policy-name	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 <table-map-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
table-map	Configure a table map
table-map-name	Table map name

Command Mode

- /exec/configure

# table-map

table-map <default-tmap-enum-name>

Syntax Description

table-map	Configure a table map
default-tmap-enum-name	

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
policy-name	A 'routing-rules' route-map name

## Command Mode

- /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
policy-name	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
policy-name	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

# table-map

[no] table-map <map> [ filter ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
table-map	Configure Table Map information
map	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 <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
rmap-name	Route-map name
filter	(Optional) Selective route download

## Command Mode

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

# 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 L2RIB
rmap-name	Route-map name
filter	(Optional) Selective route download

## Command Mode

- /exec/configure/evpn/evi

# tac-pac

tac-pac [ <uri0> [ vrf <vrf-known-name> ] ]

## Syntax Description

tac-pac	save tac info in a compressed .gz file at specific location
uri0	(Optional) Select destination filesystem
vrf	(Optional) Display per-VRF information
vrf-known-name	(Optional) Known VRF name

## Command Mode

- /exec

# tac-pac

tac-pac [ <uri0> ]

Syntax Description

tac-pac	save tac info in a compressed .gz file at specific location
uri0	(Optional) Select destination filesystem

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
i0	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> ] [ single-connection ] } } { { port1 <i3> ] [ timeout1 <i4> ] [ single-connection ] } } { [
single-connection ] } } } | { no tacacs-server host <hostipname> key } }
```

### Syntax Description

key	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
hostipname	IPV4/IPV6 address or DNS name
key	TACACS+ shared secret
0	TACACS+ shared secret(clear text)
s0	TACACS+ shared secret(clear text)
port	(Optional) TACACS+ server port
i1	(Optional) TACACS+ server port
timeout	(Optional) TACACS+ server timeout period in seconds
i2	(Optional) TACACS+ server timeout period in seconds
single-connection	(Optional) Use single connection for this Tacacs+ server
6	TACACS+ shared secret(type-6 encrypted)
s6	TACACS+ shared secret(encrypted)
7	TACACS+ shared secret(encrypted)
s1	TACACS+ shared secret(encrypted)
port1	(Optional) TACACS+ server port
i3	(Optional) TACACS+ server port
timeout1	(Optional) TACACS+ server timeout period in seconds
i4	(Optional) TACACS+ server timeout period in seconds
s2	TACACS+ shared secret(clear text)

### Command Mode

- /exec/configure

## tacacs-server host test

```
[no] tacacs-server host <hostipnam> test { { username <s0> { [ password { <s1> | 0 <s2> | 7 <s7> } [ idle-time <i1> ] ] | [ idle-time <i1> ] } } | { password { <s1> | 0 <s2> | 7 <s7> } [ idle-time <i1> ] } | { idle-time <i1> } } }
```

### Syntax Description

username	<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
hostipnam	IPV4/IPV6 address or DNS name
test	Parameters to send test packets
s0	user name
password	(Optional) user password in test packets
s1	(Optional) user password
0	(Optional) TACACS+ shared secret(clear text)
s2	(Optional) TACACS+ shared secret(clear text)
7	(Optional) TACACS+ shared secret(encrypted)
s7	(Optional) TACACS+ shared secret(encrypted)
idle-time	(Optional) time interval for monitoring the server
i1	(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)
s0	default TACACS+ shared secret(clear text)
timeout	(Optional) Global TACACS+ server timeout period in seconds
i0	(Optional) Global TACACS+ server timeout period in seconds
6	default TACACS+ shared secret(type-6 encrypted)
s6	default TACACS+ shared secret(type-6 encrypted)
timeout6	(Optional) Global TACACS+ server timeout period in seconds
i6	(Optional) Global TACACS+ server timeout period in seconds
7	default TACACS+ shared secret(encrypted)
s1	default TACACS+ shared secret(encrypted)
timeout1	(Optional) Global TACACS+ server timeout period in seconds
i1	(Optional) Global TACACS+ server timeout period in seconds
s2	default TACACS+ shared secret(clear text)
timeout2	(Optional) Global TACACS+ server timeout period in seconds
i2	(Optional) Global TACACS+ server timeout period in seconds

### Command Mode

- /exec/configure

## tacacs-server test

```
[no] tacacs-server test { { username <s0> { [ password { <s1> | 0 <s2> | 7 <s7> } [ idle-time <i1> ] ] | [ idle-time <i1> ] } } | { password { <s1> | 0 <s2> | 7 <s7> } [ idle-time <i1> ] } | { idle-time <i1> } }
```

### Syntax Description

username	<s0>
no	(Optional) Negate a command or set its defaults
tacacs-server	Configure TACACS+ server related parameters
test	Parameters to send test packets
s0	user name
password	(Optional) user password in test packets
s1	(Optional) user password
0	(Optional) TACACS+ shared secret(clear text)
s2	(Optional) TACACS+ shared secret(clear text)
7	(Optional) TACACS+ shared secret(encrypted)
s7	(Optional) TACACS+ shared secret(encrypted)
idle-time	(Optional) time interval for monitoring the server
i1	(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
i0	Global TACACS+ server timeout period in seconds

Command Mode

- /exec/configure

# tag

```
{ { no | default } tag | tag <text> }
```

## Syntax Description

no	
default	Set a command to its defaults
tag	User defined tag
text	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\_id1> <op1> <tag\_id2> [ <op2> <tag\_id3> [ <op3> <tag\_id4> ] ] happens <threshold> in <interval> | no tag

## Syntax Description

no	(Optional) Negate a command or set its defaults
tag	event tag identifier
tag_id1	tag name
op1	boolean operator
tag_id2	tag name
op2	(Optional) boolean operator
tag_id3	(Optional) tag name
op3	(Optional) boolean operator
tag_id4	(Optional) tag name
happens	The number of occurrences before raising the event
threshold	Occurs value
in	Number of occurrences must occur within this time period
interval	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
module	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
module	Enter module number
quoted	enter the command with quotes Add multiple commands separated by semi-colon
quoted-cmd	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
uri0	Filename to be displayed
i1	(Optional) Enter the number of lines to be displayed

Command Mode

- /exec

# 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
new-archive-file	the name of the archive (extension will be added if none of tar/tgz/tar.gz/tar.bz2/tbz2/tar.Z specified)
archive-file	the name of the archive (extension will be added if none of tar/tgz/tar.gz/tar.bz2/tbz2/tar.Z specified)
files	name of file to be added into archive
to	(Optional) extract to specific directory (default is bootflash)
dest-dir	(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
file	the file to run
args	(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> | <ipv6-address> } <dest-port> { [ control { disable | enable } ] [ source-ip { <source-ip-hostname> | <source-ip-address> | <source-ipv6-address> } ] [ source-port <src-port> ] } +
```

### Syntax Description

no	(Optional)
control	(Optional) enable
source-ip-address	(Optional) <source-ipv6-address>
tcp-connect	TCP Connect Operation
hostname	Destination hostname, broadcast disallowed
ip-address	Destination IP address, broadcast disallowed
dest-port	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
source-ip-hostname	(Optional) source IP hostname, broadcast disallowed
source-port	(Optional) Source Port
src-port	(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	Configure telemetry

Command Mode

- /exec/configure

## telemetry trace redirect telemetry trace

telemetry trace { redirect-to-file | redirect-to-tracebuf } | telemetry trace { tm-errors | tm-events | tm-logs } { enable | disable | clear }

### Syntax Description

telemetry	Telemetry
trace	Telemetry trace buffer
redirect-to-file	Redirect trace output to file
redirect-to-tracebuf	Redirect trace output to tracebuffer
tm-errors	Error trace buffer
tm-events	Event trace buffer
tm-logs	Log trace buffer
enable	Enable trace buffers
disable	Disable trace buffers
clear	Clear trace buffers

### Command Mode

- /exec



# telnet

```
{ telnet { <so> | <host> } } [ <i0> ] [ [ source { <host_src> | <interface> } ] [ vrf { <vrf-name> | <vrf-known-name> } ] ]
```

## Syntax Description

telnet	Telnet to another system
so	Enter hostname
host	Enter a valid IPv4 address
source	(Optional) Set source address in IPv4 header
host_src	(Optional) Set IPV4 address as source
interface	(Optional) Set interface to send IPv4 packet
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
i0	(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
s1	Enter hostname
source	(Optional) Set source address in IPv6 header
interface	(Optional) Set interface to send IPv6 packet
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
i0	(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
d0	Specify max-attempt number

### Command Mode

- /exec/configure/

# template

template <res-mgr-template-known-name-all>

Syntax Description

template	Change the template for this vdc
res-mgr-template-known-name-all	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
time	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
peer-policy-template-name	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
peer-session-template-name	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
peer-template-name	Neighbor template name

## Command Mode

- /exec/configure/router-bgp



## terminal alias

[no] terminal alias [ persist ] [ <alias-name> [ <command> ] ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
terminal	Set terminal line parameters
alias	show aliases (if no arguments) create 'exec' aliases (not persistent). Persistent aliases are in config mode, see 'cli alias
persist	(Optional) add terminal alias to <username>.rc.cli file (auto-executed at login time)
alias-name	(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.
command	(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
term	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 prompt for confirmation, do what the command indicates
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
noarg	(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
i0	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
i0	Number of lines on screen (0 for no pausing)

Command Mode

- /exec/configure/console

# 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
namespace-version	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
password	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
name	(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
mode	

Command Mode

- /exec

# terminal session-timeout

terminal session-timeout <i0>

Syntax Description

terminal	Set terminal line parameters
session-timeout	Set session timeout
i0	Enter timeout in minutes, 0 to disable

Command Mode

- /exec

# terminal sticky-mode

terminal [ <noarg> ] sticky-mode

Syntax Description

terminal	Set terminal line parameters
noarg	(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
name	(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 verify-only

```
terminal [ <noarg> ] verify-only [ username <user> ]
```

### Syntax Description

terminal	Set terminal line parameters
noarg	(Optional)
verify-only	Verify command and do not execute
username	(Optional) Username for aaa authorization
user	(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
i0	Number of characters on a screen line

Command Mode

- /exec/configure/console

# terminal width

terminal width <i0>

Syntax Description

terminal	Set terminal line parameters
width	Set width of the display terminal
i0	Number of characters on a screen line

Command Mode

- /exec

# 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
up-percentage	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
milliseconds	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
name	Time range name

Command Mode

- /exec/configure

# timeout

{ no timeout | timeout <value> }

## Syntax Description

no	
timeout	Inactivity timeout period
value	Session inactivity timeout in seconds (default 900)

## Command Mode

- /exec/configure/config-twamp-ref

# timeout

{ timeout <timeout> }

## Syntax Description

timeout	Specify
timeout	Timeout

## Command Mode

- /exec/configure/configngoamconnectcheck

# 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

# timer

[no] timer <cap-timer-usec>

Syntax Description

no	(Optional) Negate the command
timer	Configure Packet Drop Timer parameters
cap-timer-usec	

Command Mode

- /exec/configure/pkt-drop

# timer

timer <value> | no timer

Syntax Description

no	Negate a command or set its defaults
timer	Configure Bundle timer value
value	Hello timer value

Command Mode

- /exec/configure/anycast

# timer inactivity

{ no timer inactivity | timer inactivity <value> }

## Syntax Description

no	
timer	Timer configurations
inactivity	Inactivity timer
value	Max number of inactive seconds (default 900)

## Command Mode

- /exec/configure/config-twamp-srvr

# 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
hello-time	Hello interval in seconds
hold-time	Hold time in seconds
msec-hold	Specify hold interval in milliseconds
msec-hold	Hold interval in milliseconds
msec-hello	Specify hello interval in milliseconds
msec-hello	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
hold-interval	Seconds
active-time	EIGRP time limit for active state
max-active-time	(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
converge-interval	Seconds
signal	EIGRP time limit for signaling NSF restart
signal-interval	Seconds

## Command Mode

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

# 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
keepalive-interval	Keepalive interval (seconds)
hold-time	Holdtime (seconds)

## Command Mode

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

# 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
val	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
update	RIP update period
invalid	RIP route timeout period
holddown	RIP route holddown period
garbage	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
bestpath-defer-time	Bestpath defer time (mseconds)
maximum	Configure bestpath defer timer maximum value
bestpath-defer-time-max	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
bestpath-timeout	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
keepalive-interval	Keepalive interval (seconds)
hold-time	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
interval	Interval value (millisecond)

### Command Mode

- /exec/configure/router-ospf3 /exec/configure/router-ospf3/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
interval	Interval value (milliseconds)

## 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
interval	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
interval	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
prefixpeer-timeout	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
prefixpeer-wait	Prefix peer wait timer (seconds)

### Command Mode

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

## timers srgb cleanup

```
{ { timers srgb cleanup <interval> } | { no timers srgb cleanup [ <interval> ] } }
```

### Syntax Description

no	Negate a command or set its defaults
timers	Configure timer related constants
srgb	Configure SRGB related timer constants
cleanup	Interval for which SR will wait for SRGB cleanup ACK from clients
interval	Interval value (seconds)

### Command Mode

- /exec/configure/config-sr-mpls

## timers srgb retry

```
{ { timers srgb retry <interval> } | { no timers srgb retry [ <interval> ] } }
```

### Syntax Description

no	Negate a command or set its defaults
timers	Configure timer related constants
srgb	Configure SRGB related timer constants
retry	Interval for which SR will retry SRGB allocation with ULIB
interval	Interval value (seconds)

### Command Mode

- /exec/configure/config-sr-mpls

## 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
start-time	Start interval (milliseconds)
hold-time	Hold interval (milliseconds)
max-time	Max interval (milliseconds)

### Command Mode

- /exec/configure/router-ospf3 /exec/configure/router-ospf3/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
start-time	Start interval (milliseconds)
hold-time	Hold interval (milliseconds)
max-time	Max interval (milliseconds)

### 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
start-time	Initial SPF schedule delay in milliseconds
hold-time	Minimum hold time between SPF calculations
max-time	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
start-time	Initial SPF schedule delay in milliseconds
hold-time	Minimum hold time between SPF calculations
max-time	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

## timestamp timestamp

```
timestamp { ingress id <ingress-source-id> [ egress id <egress-source-id> ] } | timestamp { egress id
<egress-source-id> [ ingress id <ingress-source-id> ] } | no timestamp
```

### Syntax Description

no	Negate a command or set its defaults
timestamp	Configure packet timestamping
ingress	ingress direction
egress	(Optional) egress direction
id	source identifier inserted in timestamp
ingress-source-id	Ingress source id value
egress-source-id	(Optional) Egress source id value

### Command Mode

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

## 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
tp_local	Local trustpoint name
remote	Configure remote trustpoint
tp_remote	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
tp_local	Local trustpoint name
remote	Configure remote trustpoint
tp_remote	Remote trustpoint name

Command Mode

- /exec/configure/openflow/switch/sub-switch

# topology

[no] topology <tpg-id>

Syntax Description

no	(Optional) Negate a command or set its defaults
topology	Configure Layer-2 Topology for IS-IS
tpg-id	L2 Topology ID 1-63

Command Mode

- /exec/configure/l2mp-isis/l2mp-isis-vrf-common

# 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
sec	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
tos-value	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
SET1	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)
SET2	(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
size	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
host	IP address of remote system
hostname	Hostname of remote system
port	(Optional) Set destination port
portnumber	(Optional) Enter destination port number
source	(Optional) Set source address in IP header
interface	(Optional) Interface
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
source-interface	(Optional) Select source interface
src-intf	(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
hostname	Hostname of remote system
source	(Optional) Set source address in IPv6 header
interface	(Optional) Interface
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
source-interface	(Optional) Select source interface
src-intf	(Optional) Specify interface

## Command Mode

- /exec

## tracroute mpls

```
tracroute mpls { nil-fec { { labels <comma-separated-labels> } { output { ointerface <tx-interface> } nextthop
<nextthop-ip-addr> } | { policy { { name <srte-policy-name> } | { endpoint <srte-policy-endpoint> color
<srte-policy-color> } } [ { output { ointerface <tx-interface> } [ nextthop <nextthop-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

tracroute	need
mpls	Test
nil-fec	Target
labels	A
comma-separated-labels	A
timeout	(Optional) Timeout
seconds	(Optional) Timeout
destination	(Optional) Destination
addr-start	(Optional) Destination
addr-end	(Optional) Destination
addr-incr-mask	(Optional) Destination
addr-incr	(Optional) Destination
source	(Optional) Source
addr	(Optional) Source
exp	(Optional) EXP
exp-value	(Optional) EXP
ttl	(Optional) Maximum
ttl-max	(Optional) TTL
verbose	(Optional) Verbose
reply	(Optional) Reply
mode	(Optional) Reply

reply-mode-ipv4	(Optional) Send
router-alert	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
no-reply	(Optional) Send
dscp	(Optional) DSCP
dscp-bits	(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	Output
ointerface	Echo

tx-interface	Echo
nexthop	Next
nexthop-ip-addr	Next
flags	(Optional) Flag
fec	(Optional) Request
policy	Derive
name	Specify
color	Specify
endpoint	Specify
srte-policy-name	The
srte-policy-color	The
srte-policy-endpoint	The

## 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 <dstip6> <srcip6> ] [ port <sport> <dport> ] [
proto <proto-id> ] } payload-end ] [ source { <numeric1> | <numeric2> } ] |
```

### Syntax Description

traceroute	Test
nve	network virtualization edge
numeric10	Ipv4 address of remote host / VTEP
unknown	Peer vtep ip is unknown, will be derived from payload
intfid	(Optional) Name of the interface for ngoam traceroute on which dot1q is configured
profile	(Optional) NGOAM profile to use
pid	(Optional) NGOAM profile id
mac	Mac
dmac	Destination mac address
dot1qid	Encapsulation dot1q/bd on which the mac is learnt
dot1qid1	(Optional) Encapsulation dot1q/bd on which the mac is learnt
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
source	(Optional) Source
numeric1	(Optional) IP
payload	(Optional) Enter customer payload
mac-addr	(Optional) Mac
dstmac	(Optional) Destination mac address
smac	(Optional) Source mac address
dot1q	(Optional) Encapsulation dot1q/bd
dot1q-id	(Optional) Encapsulation dot1q/bd on which the mac is learnt
ip	ip address

dstip	(Optional) Destination ipv4 address
srcip	(Optional) source ipv4 address
ipv6	(Optional) ipv6 address
port	(Optional) L4 port info
sport	(Optional) Source port
dport	(Optional) Destination port
proto	(Optional) Protocol
proto-id	(Optional) IANA Protocol id
payload-end	(Optional) End payload info input

## Command Mode

- /exec

## traceroute sr-mpls

```
traceroute sr-mpls { <sr-ipv4-prefix> fec-type { { igp isis } | { bgp } | { generic } } } [ { 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
sr-mpls	Test
sr-ipv4-prefix	IP
fec-type	Type
igp	Kind
isis	ISIS
bgp	BGP
generic	Generic
timeout	(Optional) Timeout
seconds	(Optional) Timeout
destination	(Optional) Destination
addr-start	(Optional) Destination
addr-end	(Optional) Destination
addr-incr-mask	(Optional) Destination
addr-incr	(Optional) Destination
source	(Optional) Source
addr	(Optional) Source
exp	(Optional) EXP
exp-value	(Optional) EXP
ttl	(Optional) Maximum
ttl-max	(Optional) TTL
verbose	(Optional) Verbose
reply	(Optional) Reply

mode	(Optional) Reply
reply-mode-ipv4	(Optional) Send
router-alert	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
no-reply	(Optional) Send
dscp	(Optional) DSCP
dscp-bits	(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	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
flags	(Optional) Flag

fec	(Optional) Request
-----	--------------------

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> { list threshold <percentage-val> }
```

## Syntax Description

track	Object tracking configuration command
object-id	Tracked Object
list	Object tracking list
threshold	threshold type
percentage-val	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
object-number	Set the object number to the group
decrement	(Optional) Decrements when tracked object goes down
value	(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
object-number	Set the object number

## Command Mode

- /exec/configure/anycast

# track

track <object-id>

Syntax Description

track	Object tracking deletion command
object-id	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
object-id	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
object-id	Tracked Object
ip_v4	IPv4 protocol
route	IPv4 route
route-prefix	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
object-id	Tracked Object
ip_v4	IPv4 protocol
sla	IP Service Level Agreement
sla-id	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
object-id	Tracked Object
list	Object tracking list
boolean	boolean list type
bool-val	boolean list type

## Command Mode

- /exec/configure

# track

```
track <object-id> { list threshold <weight-val> }
```

## Syntax Description

track	Object tracking configuration command
object-id	Tracked Object
list	Object tracking list
threshold	threshold type
weight-val	threshold weight type

## Command Mode

- /exec/configure

# 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
track-obj	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
loc-uri	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
object-id	Tracked Object
interface	Interface to track
ifnum	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)
intf_num	
priority	Vr priority used when the tracked interface is down
priority_value	
object-num	Set the object number to the group(Object tracking)
decrement	(Optional) Decrements priority when tracked object goes down
decrement-value	(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
reach_secs	(Optional) Seconds
stale_secs	(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
traffic-class	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-engineering

[no] traffic-engineering

Syntax Description

no	(Optional) Negate a command or set its defaults
traffic-engineering	Configure Traffic Engineering related configurations

Command Mode

- /exec/configure/config-sr

# transmit-delay

```
{ { transmit-delay <delay> } | { no transmit-delay [ <delay> ] } }
```

## Syntax Description

no	Negate a command or set its defaults
transmit-delay	Packet transmission delay
delay	(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
delay	(seconds)

## Command Mode

- /exec/configure/router-ospf3/router-ospf3-vlink /exec/configure/router-ospf3/vrf/router-ospf3-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
delay	(seconds)

## Command Mode

- /exec/configure/router-ospf/router-ospf-vlink /exec/configure/router-ospf/vrf/router-ospf-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
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
hostname	SMTP server(DNS name or IPv4 or IPv6 address)
hostipv4	IPV4 address of SMTP server
port	(Optional) Configure SMTP server port (default:25)
i1	(Optional) SMTP server port
use-vrf	(Optional) Configure vrf name
s2	(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)
hostname	SMTP server(DNS name or IPv4 or IPv6 address)
hostipv4	IPV4 address of SMTP server
port	(Optional) Configure SMTP server port (default:25)
i1	(Optional) SMTP server port
use-vrf	(Optional) Configure vrf name
s2	(Optional) vrf name
priority	(Optional) Configure SMTP server priority (1-100) (default:50)
i2	(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
hostname	Proxy server name or IP address(DNS name or IPv4 or IPv6 address)
port	(Optional) Configure Proxy server port (default:8080)
i1	(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



# transport udp

```
{ [ no ] transport udp <portnumber> | no transport udp }
```

## Syntax Description

transport	Transport Destination Port
udp	Destination UDP Port
portnumber	Destination UDP Port

## Command Mode

- /exec/configure/nfm-exporter

## transport udp

{ [ no ] transport udp <portnumber> | no transport udp }

### Syntax Description

transport	Transport Destination Port
udp	Destination UDP Port
portnumber	Destination UDP Port

### Command Mode

- /exec/configure/config-int-exporter

# transport udp

```
[no] transport udp { src-port <srcport> dst-port <dstport> | dst-port <dstport> src-port <srcport> | src-port <srcport> | dst-port <dstport> }
```

## Syntax Description

transport	Transport configurations
udp	UDP Port
src-port	Src UDP port
srcport	UDP port to be configured, default 49153
dst-port	Dest UDP port
dstport	UDP port to be configured for destination, default 49153

## Command Mode

- /exec/configure/config-ssx-exporter

## transport udp

{ [ no ] transport udp <portnumber> | no transport udp }

### Syntax Description

transport	Transport Destination Port
udp	Destination UDP Port
portnumber	Destination UDP Port

### Command Mode

- /exec/configure/nfm-exporter

# transport udp

```
{ [ no ] transport udp <portnumber> | no transport udp }
```

## Syntax Description

transport	Transport Destination Port
udp	Destination UDP Port
portnumber	Destination UDP Port

## Command Mode

- /exec/configure/config-postcard-exporter

## transport udp source-port

```
{ [ no ] transport udp source-port <intf> }
```

### Syntax Description

transport	Transport protocol config
udp	UDP Port
source-port	source-port
intf	UDP port to be configured

### Command Mode

- /exec/configure/config-fte-exporter

# trigger init

```
trigger init [ asic <asic-no> ] [ slice <slice-no> ] [ use-src-id <src-id> ]
```

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

## Command Mode

- /exec/elamtah

## trigger init in-select 10

```
trigger init [ asic <asic-no> ] [ slice <slice-no> ] in-select 10 [ use-src-id <src-id> ]
```

### Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
in-select	in-select
10	{outer l4, inner l4, ieth}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

### Command Mode

- /exec/elamtah



## trigger init in-select 10 out-select 0

trigger init [ asic <asic-no> ] [ slice <slice-no> ] in-select 10 out-select 0 [ use-src-id <src-id> ]

### Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
in-select	in-select
out-select	out-select
10	{outer l4, inner l4, ieth}
0	{header_vec, sideband, sb_info}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

### Command Mode

- /exec/elamtah

# trigger init in-select 10 out-select 1

```
trigger init [ asic <asic-no> ] [ slice <slice-no> ] in-select 10 out-select 1 [ use-src-id <src-id> ]
```

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
in-select	in-select
out-select	out-select
10	{outer l4, inner l4, ieth}
1	{header_vec, sideband, lux_drop_vec}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

## Command Mode

- /exec/elamtah

## trigger init in-select 10 out-select 2

trigger init [ asic <asic-no> ] [ slice <slice-no> ] in-select 10 out-select 2 [ use-src-id <src-id> ]

### Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
in-select	in-select
out-select	out-select
10	{outer l4, inner l4, ieth}
2	{sideband, sb_info, stats, lux_drop_vec}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

### Command Mode

- /exec/elamtah

## trigger init in-select 19

```
trigger init [ asic <asic-no> ] [ slice <slice-no> ] in-select 19 [ use-src-id <src-id> ]
```

### Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
in-select	in-select
19	{udf_vec}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

### Command Mode

- /exec/elamtah

## trigger init in-select 19 out-select 0

trigger init [ asic <asic-no> ] [ slice <slice-no> ] in-select 19 out-select 0 [ use-src-id <src-id> ]

### Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
in-select	in-select
out-select	out-select
19	{udf_vec}
0	{header_vec, sideband, sb_info}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

### Command Mode

- /exec/elamtah

## trigger init in-select 19 out-select 1

```
trigger init [ asic <asic-no> ] [ slice <slice-no> ] in-select 19 out-select 1 [ use-src-id <src-id> ]
```

### Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
in-select	in-select
out-select	out-select
19	{udf_vec}
1	{header_vec, sideband, lux_drop_vec}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

### Command Mode

- /exec/elamtah

## trigger init in-select 19 out-select 2

trigger init [ asic <asic-no> ] [ slice <slice-no> ] in-select 19 out-select 2 [ use-src-id <src-id> ]

### Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
in-select	in-select
out-select	out-select
19	{udf_vec}
2	{sideband, sb_info, stats, lux_drop_vec}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

### Command Mode

- /exec/elamtah

## trigger init in-select 6

```
trigger init [ asic <asic-no> ] [ slice <slice-no> ] in-select 6 [ use-src-id <src-id> ]
```

### Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
in-select	in-select
6	{outer I2, outer I3, outer I4}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

### Command Mode

- /exec/elamtah



## trigger init in-select 6 out-select 0

trigger init [ asic <asic-no> ] [ slice <slice-no> ] in-select 6 out-select 0 [ use-src-id <src-id> ]

### Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
in-select	in-select
out-select	out-select
6	{outer l2, outer l3, outer l4}
0	{header_vec, sideband, sb_info}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

### Command Mode

- /exec/elamtah

# trigger init in-select 6 out-select 1

```
trigger init [ asic <asic-no> ] [ slice <slice-no> ] in-select 6 out-select 1 [ use-src-id <src-id> ]
```

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
in-select	in-select
out-select	out-select
6	{outer l2, outer l3, outer l4}
1	{header_vec, sideband, lux_drop_vec}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

## Command Mode

- /exec/elamtah

## trigger init in-select 6 out-select 2

trigger init [ asic <asic-no> ] [ slice <slice-no> ] in-select 6 out-select 2 [ use-src-id <src-id> ]

### Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
in-select	in-select
out-select	out-select
6	{outer l2, outer l3, outer l4}
2	{sideband, sb_info, stats, lux_drop_vec}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

### Command Mode

- /exec/elamtah

## trigger init in-select 7

```
trigger init [ asic <asic-no> ] [ slice <slice-no> ] in-select 7 [ use-src-id <src-id> ]
```

### Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
in-select	in-select
7	{inner I2, inner I3, inner I4}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

### Command Mode

- /exec/elamtah

## trigger init in-select 7 out-select 0

trigger init [ asic <asic-no> ] [ slice <slice-no> ] in-select 7 out-select 0 [ use-src-id <src-id> ]

### Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
in-select	in-select
out-select	out-select
7	{inner l2, inner l3, inner l4}
0	{header_vec, sideband, sb_info}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

### Command Mode

- /exec/elamtah

# trigger init in-select 7 out-select 1

```
trigger init [ asic <asic-no> ] [ slice <slice-no> ] in-select 7 out-select 1 [ use-src-id <src-id> ]
```

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
in-select	in-select
out-select	out-select
7	{inner l2, inner l3, inner l4}
1	{header_vec, sideband, lux_drop_vec}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

## Command Mode

- /exec/elamtah

## trigger init in-select 7 out-select 2

trigger init [ asic <asic-no> ] [ slice <slice-no> ] in-select 7 out-select 2 [ use-src-id <src-id> ]

### Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
in-select	in-select
out-select	out-select
7	{inner l2, inner l3, inner l4}
2	{sideband, sb_info, stats, lux_drop_vec}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

### Command Mode

- /exec/elamtah

## trigger init in-select 8

```
trigger init [ asic <asic-no> ] [ slice <slice-no> ] in-select 8 [ use-src-id <src-id> ]
```

### Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
in-select	in-select
8	{outer l2, inner l2, ieth}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

### Command Mode

- /exec/elamtah



## trigger init in-select 8 out-select 0

trigger init [ asic <asic-no> ] [ slice <slice-no> ] in-select 8 out-select 0 [ use-src-id <src-id> ]

### Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
in-select	in-select
out-select	out-select
8	{outer l2, inner l2, ieth}
0	{header_vec, sideband, sb_info}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

### Command Mode

- /exec/elamtah

## trigger init in-select 8 out-select 1

```
trigger init [ asic <asic-no> ] [ slice <slice-no> ] in-select 8 out-select 1 [ use-src-id <src-id> ]
```

### Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
in-select	in-select
out-select	out-select
8	{outer l2, inner l2, ieth}
1	{header_vec, sideband, lux_drop_vec}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

### Command Mode

- /exec/elamtah

## trigger init in-select 8 out-select 2

trigger init [ asic <asic-no> ] [ slice <slice-no> ] in-select 8 out-select 2 [ use-src-id <src-id> ]

### Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
in-select	in-select
out-select	out-select
8	{outer l2, inner l2, ieth}
2	{sideband, sb_info, stats, lux_drop_vec}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

### Command Mode

- /exec/elamtah

## trigger init in-select 9

```
trigger init [ asic <asic-no> ] [ slice <slice-no> ] in-select 9 [ use-src-id <src-id> ]
```

### Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
in-select	in-select
9	{outer I3, inner I3}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

### Command Mode

- /exec/elamtah

## trigger init in-select 9 out-select 0

trigger init [ asic <asic-no> ] [ slice <slice-no> ] in-select 9 out-select 0 [ use-src-id <src-id> ]

### Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
in-select	in-select
out-select	out-select
9	{outer l3, inner l3}
0	{header_vec, sideband, sb_info}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

### Command Mode

- /exec/elamtah

## trigger init in-select 9 out-select 1

```
trigger init [ asic <asic-no> ] [ slice <slice-no> ] in-select 9 out-select 1 [ use-src-id <src-id> ]
```

### Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
in-select	in-select
out-select	out-select
9	{outer I3, inner I3}
1	{header_vec, sideband, lux_drop_vec}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

### Command Mode

- /exec/elamtah

## trigger init in-select 9 out-select 2

trigger init [ asic <asic-no> ] [ slice <slice-no> ] in-select 9 out-select 2 [ use-src-id <src-id> ]

### Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
in-select	in-select
out-select	out-select
9	{outer l3, inner l3}
2	{sideband, sb_info, stats, lux_drop_vec}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

### Command Mode

- /exec/elamtah

## trigger init ingress in-select 3 out-select 0

trigger init { ingress | egress } in-select 3 out-select 0

Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
0	pktrw
3	outerl2-outerl3-outerl4

Command Mode

- /exec/elanms



# trigger init ingress in-select 3 out-select 03

trigger init { ingress | egress } in-select 3 out-select 03

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
03	pkt_lsb
3	outerl2-outerl3-outerl4

## Command Mode

- /exec/alamns

## trigger init ingress in-select 3 out-select 0 reverse

trigger init { ingress | egress } in-select 3 out-select 0 reverse

Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
0	pktrw
3	outerl2-outerl3-outerl4
reverse	Program reverse ELAM

Command Mode

- /exec/elanms

# trigger init ingress in-select 3 out-select 1

trigger init { ingress | egress } in-select 3 out-select 1

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
1	pkt_fifo_lsb
3	outerl2-outerl3-outerl4

## Command Mode

- /exec/elanms

## trigger init ingress in-select 3 out-select 2

trigger init { ingress | egress } in-select 3 out-select 2

Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
2	pkt_fifo_msb
3	outerl2-outerl3-outerl4

Command Mode

- /exec/elamns

# trigger init ingress in-select 3 out-select 4

trigger init { ingress | egress } in-select 3 out-select 4

Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
4	pkt_msb
3	outerl2-outerl3-outerl4

Command Mode

- /exec/alamns

## trigger init ingress in-select 3 out-select 5

trigger init { ingress | egress } in-select 3 out-select 5

Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
5	sideband
3	outerl2-outerl3-outerl4

Command Mode

- /exec/elamns

# trigger init ingress in-select 3 out-select 5 reverse

trigger init { ingress | egress } in-select 3 out-select 5 reverse

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
5	sideband
3	outerl2-outerl3-outerl4
reverse	Program reverse ELAM

## Command Mode

- /exec/elamns

## trigger init ingress in-select 4 out-select 0

trigger init { ingress | egress } in-select 4 out-select 0

Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
0	pktrw
4	innerl2-innerl3-innerl4

Command Mode

- /exec/elanms



# trigger init ingress in-select 4 out-select 04

trigger init { ingress | egress } in-select 4 out-select 04

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
04	pkt_msb
4	innerl2-innerl3-innerl4

## Command Mode

- /exec/elanms

## trigger init ingress in-select 4 out-select 0 reverse

trigger init { ingress | egress } in-select 4 out-select 0 reverse

Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
0	pktrw
4	innerl2-innerl3-innerl4
reverse	Program reverse ELAM

Command Mode

- /exec/elanms

# trigger init ingress in-select 4 out-select 1

trigger init { ingress | egress } in-select 4 out-select 1

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
1	pkt_fifo_lsb
4	innerl2-innerl3-innerl4

## Command Mode

- /exec/elanms

## trigger init ingress in-select 4 out-select 2

trigger init { ingress | egress } in-select 4 out-select 2

Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
2	pkt_fifo_msb
4	innerl2-innerl3-innerl4

Command Mode

- /exec/elanms

# trigger init ingress in-select 4 out-select 3

trigger init { ingress | egress } in-select 4 out-select 3

Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
3	pkt_lsb
4	innerl2-innerl3-innerl4

Command Mode

- /exec/alamns

## trigger init ingress in-select 4 out-select 5

trigger init { ingress | egress } in-select 4 out-select 5

Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
5	sideband
4	inner12-inner13-inner14

Command Mode

- /exec/elanms

# trigger init ingress in-select 4 out-select 5 reverse

trigger init { ingress | egress } in-select 4 out-select 5 reverse

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
5	sideband
4	innerl2-innerl3-innerl4
reverse	Program reverse ELAM

## Command Mode

- /exec/elamns

## trigger init ingress in-select 5 out-select 0

trigger init { ingress | egress } in-select 5 out-select 0

Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
0	pktrw
5	outerl2-innerl2

Command Mode

- /exec/elamns



# trigger init ingress in-select 5 out-select 05

trigger init { ingress | egress } in-select 5 out-select 05

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
05	sideband
5	outerl2-innerl2

## Command Mode

- /exec/elamns

## trigger init ingress in-select 5 out-select 05 reverse

trigger init { ingress | egress } in-select 5 out-select 05 reverse

Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
05	sideband
5	outerl2-innerl2
reverse	Program reverse ELAM

Command Mode

- /exec/eamns

# trigger init ingress in-select 5 out-select 0 reverse

trigger init { ingress | egress } in-select 5 out-select 0 reverse

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
0	pktrw
5	outerl2-innerl2
reverse	Program reverse ELAM

## Command Mode

- /exec/elamns

# trigger init ingress in-select 5 out-select 1

trigger init { ingress | egress } in-select 5 out-select 1

Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
1	pkt_fifo_lsb
5	outerl2-innerl2

Command Mode

- /exec/elamns

## trigger init ingress in-select 5 out-select 2

trigger init { ingress | egress } in-select 5 out-select 2

### Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
2	pkt_fifo_msb
5	outerl2-innerl2

### Command Mode

- /exec/alamns

## trigger init ingress in-select 5 out-select 3

trigger init { ingress | egress } in-select 5 out-select 3

Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
3	pkt_lsb
5	outerl2-innerl2

Command Mode

- /exec/elamns

# trigger init ingress in-select 5 out-select 4

trigger init { ingress | egress } in-select 5 out-select 4

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
4	pkt_msb
5	outerl2-innerl2

## Command Mode

- /exec/alamns

## trigger init ingress in-select 6 out-select 0

trigger init { ingress | egress } in-select 6 out-select 0

Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
0	pktrw
6	outer13-inner13

Command Mode

- /exec/elanms



# trigger init ingress in-select 6 out-select 0 reverse

trigger init { ingress | egress } in-select 6 out-select 0 reverse

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
0	pktrw
6	outerl3-innerl3
reverse	Program reverse ELAM

## Command Mode

- /exec/elamns

# trigger init ingress in-select 6 out-select 1

trigger init { ingress | egress } in-select 6 out-select 1

Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
1	pkt_fifo_lsb
6	outer13-inner13

Command Mode

- /exec/elamns

## trigger init ingress in-select 6 out-select 2

trigger init { ingress | egress } in-select 6 out-select 2

### Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
2	pkt_fifo_msb
6	outerl3-innerl3

### Command Mode

- /exec/elanms

## trigger init ingress in-select 6 out-select 3

trigger init { ingress | egress } in-select 6 out-select 3

Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
3	pkt_lsb
6	outer13-inner13

Command Mode

- /exec/elamns

# trigger init ingress in-select 6 out-select 4

trigger init { ingress | egress } in-select 6 out-select 4

Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
4	pkt_msb
6	outerl3-innerl3

Command Mode

- /exec/alamns

## trigger init ingress in-select 6 out-select 5

trigger init { ingress | egress } in-select 6 out-select 5

Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
5	sideband
6	outer13-inner13

Command Mode

- /exec/elamns

# trigger init ingress in-select 6 out-select 5 reverse

trigger init { ingress | egress } in-select 6 out-select 5 reverse

Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
5	sideband
6	outerl3-innerl3
reverse	Program reverse ELAM

Command Mode

- /exec/elamns

## trigger init ingress in-select 7 out-select 0

trigger init { ingress | egress } in-select 7 out-select 0

Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
0	pktrw
7	outerl4-innerl4

Command Mode

- /exec/elanms



# trigger init ingress in-select 7 out-select 0 reverse

trigger init { ingress | egress } in-select 7 out-select 0 reverse

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
0	pktrw
7	outerl4-innerl4
reverse	Program reverse ELAM

## Command Mode

- /exec/elamns

# trigger init ingress in-select 7 out-select 1

trigger init { ingress | egress } in-select 7 out-select 1

Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
1	pkt_fifo_lsb
7	outerl4-innerl4

Command Mode

- /exec/elamns

## trigger init ingress in-select 7 out-select 2

trigger init { ingress | egress } in-select 7 out-select 2

### Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
2	pkt_fifo_msb
7	outerl4-innerl4

### Command Mode

- /exec/alamns

## trigger init ingress in-select 7 out-select 3

trigger init { ingress | egress } in-select 7 out-select 3

Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
3	pkt_lsb
7	outerl4-innerl4

Command Mode

- /exec/elamns

# trigger init ingress in-select 7 out-select 4

trigger init { ingress | egress } in-select 7 out-select 4

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
4	pkt_msb
7	outerl4-innerl4

## Command Mode

- /exec/alamns

## trigger init ingress in-select 7 out-select 5

trigger init { ingress | egress } in-select 7 out-select 5

Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
5	sideband
7	outerl4-innerl4

Command Mode

- /exec/elamns

# trigger init ingress in-select 7 out-select 5 reverse

trigger init { ingress | egress } in-select 7 out-select 5 reverse

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
5	sideband
7	outer14-inner14
reverse	Program reverse ELAM

## Command Mode

- /exec/elamns

## trigger init lu-a2d 0

```
trigger init [ asic <asic-no> ] [ slice <slice-no> ] lu-a2d 0 [ use-src-id <src-id> ]
```

### Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
lu-a2d	Trigger at LUA/LUD
0	Trigger at LUD
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

### Command Mode

- /exec/elamtah



## trigger init lu-a2d 0 in-select 10 out-select 0

trigger init [ asic <asic-no> ] [ slice <slice-no> ] lu-a2d 0 in-select 10 out-select 0 [ use-src-id <src-id> ]

### Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
lu-a2d	Trigger at LUA/LUD
0	Trigger at LUD
in-select	in-select
out-select	out-select
10	{outer l4, inner l4, ieth}
0	{header_vec, sideband, sb_info}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

### Command Mode

- /exec/elamtah

## trigger init lu-a2d 0 in-select 10 out-select 1

```
trigger init [ asic <asic-no> ] [ slice <slice-no> ] lu-a2d 0 in-select 10 out-select 1 [ use-src-id <src-id> ]
```

### Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
lu-a2d	Trigger at LUA/LUD
0	Trigger at LUD
in-select	in-select
out-select	out-select
10	{outer l4, inner l4, ieth}
1	{header_vec, sideband, lux_drop_vec}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

### Command Mode

- /exec/elamtah

## trigger init lu-a2d 0 in-select 10 out-select 2

trigger init [ asic <asic-no> ] [ slice <slice-no> ] lu-a2d 0 in-select 10 out-select 2 [ use-src-id <src-id> ]

### Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
lu-a2d	Trigger at LUA/LUD
0	Trigger at LUD
in-select	in-select
out-select	out-select
10	{outer l4, inner l4, ieth}
2	{sideband, sb_info, stats, lux_drop_vec}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

### Command Mode

- /exec/elamtah

## trigger init lu-a2d 0 in-select 19 out-select 0

trigger init [ asic <asic-no> ] [ slice <slice-no> ] lu-a2d 0 in-select 19 out-select 0 [ use-src-id <src-id> ]

### Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
lu-a2d	Trigger at LUA/LUD
0	Trigger at LUD
in-select	in-select
out-select	out-select
19	{udf_vec}
0	{header_vec, sideband, sb_info}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

### Command Mode

- /exec/elamtah

# trigger init lu-a2d 0 in-select 19 out-select 1

trigger init [ asic <asic-no> ] [ slice <slice-no> ] lu-a2d 0 in-select 19 out-select 1 [ use-src-id <src-id> ]

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
lu-a2d	Trigger at LUA/LUD
0	Trigger at LUD
in-select	in-select
out-select	out-select
19	{udf_vec}
1	{header_vec, sideband, lux_drop_vec}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

## Command Mode

- /exec/elamtah

## trigger init lu-a2d 0 in-select 19 out-select 2

```
trigger init [ asic <asic-no> ] [ slice <slice-no> ] lu-a2d 0 in-select 19 out-select 2 [ use-src-id <src-id> ]
```

### Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
lu-a2d	Trigger at LUA/LUD
0	Trigger at LUD
in-select	in-select
out-select	out-select
19	{udf_vec}
2	{sideband, sb_info, stats, lux_drop_vec}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

### Command Mode

- /exec/elamtah

## trigger init lu-a2d 0 in-select 6 out-select 0

trigger init [ asic <asic-no> ] [ slice <slice-no> ] lu-a2d 0 in-select 6 out-select 0 [ use-src-id <src-id> ]

### Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
lu-a2d	Trigger at LUA/LUD
0	Trigger at LUD
in-select	in-select
out-select	out-select
6	{outer l2, outer l3, outer l4}
0	{header_vec, sideband, sb_info}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

### Command Mode

- /exec/elamtah

## trigger init lu-a2d 0 in-select 6 out-select 1

trigger init [ asic <asic-no> ] [ slice <slice-no> ] lu-a2d 0 in-select 6 out-select 1 [ use-src-id <src-id> ]

### Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
lu-a2d	Trigger at LUA/LUD
0	Trigger at LUD
in-select	in-select
out-select	out-select
6	{outer I2, outer I3, outer I4}
1	{header_vec, sideband, lux_drop_vec}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

### Command Mode

- /exec/elamtah



## trigger init lu-a2d 0 in-select 6 out-select 2

trigger init [ asic <asic-no> ] [ slice <slice-no> ] lu-a2d 0 in-select 6 out-select 2 [ use-src-id <src-id> ]

### Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
lu-a2d	Trigger at LUA/LUD
0	Trigger at LUD
in-select	in-select
out-select	out-select
6	{outer l2, outer l3, outer l4}
2	{sideband, sb_info, stats, lux_drop_vec}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

### Command Mode

- /exec/elamtah

## trigger init lu-a2d 0 in-select 7 out-select 0

trigger init [ asic <asic-no> ] [ slice <slice-no> ] lu-a2d 0 in-select 7 out-select 0 [ use-src-id <src-id> ]

### Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
lu-a2d	Trigger at LUA/LUD
0	Trigger at LUD
in-select	in-select
out-select	out-select
7	{inner l2, inner l3, inner l4}
0	{header_vec, sideband, sb_info}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

### Command Mode

- /exec/elamtah

# trigger init lu-a2d 0 in-select 7 out-select 1

trigger init [ asic <asic-no> ] [ slice <slice-no> ] lu-a2d 0 in-select 7 out-select 1 [ use-src-id <src-id> ]

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
lu-a2d	Trigger at LUA/LUD
0	Trigger at LUD
in-select	in-select
out-select	out-select
7	{inner l2, inner l3, inner l4}
1	{header_vec, sideband, lux_drop_vec}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

## Command Mode

- /exec/elamtah

## trigger init lu-a2d 0 in-select 7 out-select 2

```
trigger init [ asic <asic-no> ] [ slice <slice-no> ] lu-a2d 0 in-select 7 out-select 2 [ use-src-id <src-id> ]
```

### Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
lu-a2d	Trigger at LUA/LUD
0	Trigger at LUD
in-select	in-select
out-select	out-select
7	{inner l2, inner l3, inner l4}
2	{sideband, sb_info, stats, lux_drop_vec}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

### Command Mode

- /exec/elamtah

## trigger init lu-a2d 0 in-select 8 out-select 0

trigger init [ asic <asic-no> ] [ slice <slice-no> ] lu-a2d 0 in-select 8 out-select 0 [ use-src-id <src-id> ]

### Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
lu-a2d	Trigger at LUA/LUD
0	Trigger at LUD
in-select	in-select
out-select	out-select
8	{outer l2, inner l2, ieth}
0	{header_vec, sideband, sb_info}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

### Command Mode

- /exec/elamtah

## trigger init lu-a2d 0 in-select 8 out-select 1

```
trigger init [ asic <asic-no> ] [ slice <slice-no> ] lu-a2d 0 in-select 8 out-select 1 [ use-src-id <src-id> ]
```

### Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
lu-a2d	Trigger at LUA/LUD
0	Trigger at LUD
in-select	in-select
out-select	out-select
8	{outer l2, inner l2, ieth}
1	{header_vec, sideband, lux_drop_vec}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

### Command Mode

- /exec/elamtah

## trigger init lu-a2d 0 in-select 8 out-select 2

trigger init [ asic <asic-no> ] [ slice <slice-no> ] lu-a2d 0 in-select 8 out-select 2 [ use-src-id <src-id> ]

### Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
lu-a2d	Trigger at LUA/LUD
0	Trigger at LUD
in-select	in-select
out-select	out-select
8	{outer l2, inner l2, ieth}
2	{sideband, sb_info, stats, lux_drop_vec}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

### Command Mode

- /exec/elamtah

## trigger init lu-a2d 0 in-select 9 out-select 0

trigger init [ asic <asic-no> ] [ slice <slice-no> ] lu-a2d 0 in-select 9 out-select 0 [ use-src-id <src-id> ]

### Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
lu-a2d	Trigger at LUA/LUD
0	Trigger at LUD
in-select	in-select
out-select	out-select
9	{outer I3, inner I3}
0	{header_vec, sideband, sb_info}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

### Command Mode

- /exec/elamtah



# trigger init lu-a2d 0 in-select 9 out-select 1

trigger init [ asic <asic-no> ] [ slice <slice-no> ] lu-a2d 0 in-select 9 out-select 1 [ use-src-id <src-id> ]

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
lu-a2d	Trigger at LUA/LUD
0	Trigger at LUD
in-select	in-select
out-select	out-select
9	{outer 13, inner 13}
1	{header_vec, sideband, lux_drop_vec}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

## Command Mode

- /exec/elamtah

## trigger init lu-a2d 0 in-select 9 out-select 2

```
trigger init [ asic <asic-no> ] [ slice <slice-no> ] lu-a2d 0 in-select 9 out-select 2 [ use-src-id <src-id> ]
```

### Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
lu-a2d	Trigger at LUA/LUD
0	Trigger at LUD
in-select	in-select
out-select	out-select
9	{outer I3, inner I3}
2	{sideband, sb_info, stats, lux_drop_vec}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

### Command Mode

- /exec/elamtah

## trigger init lu-a2d 0 out-select 0

trigger init [ asic <asic-no> ] [ slice <slice-no> ] lu-a2d 0 out-select 0 [ use-src-id <src-id> ]

### Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
lu-a2d	Trigger at LUA/LUD
0	Trigger at LUD
out-select	out-select
0	{header_vec, sideband, sb_info}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

### Command Mode

- /exec/elamtah

## trigger init lu-a2d 0 out-select 1

```
trigger init [ asic <asic-no> ] [ slice <slice-no> ] lu-a2d 0 out-select 1 [ use-src-id <src-id> ]
```

### Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
lu-a2d	Trigger at LUA/LUD
0	Trigger at LUD
out-select	out-select
1	{header_vec, sideband, lux_drop_vec}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

### Command Mode

- /exec/elamtah

## trigger init lu-a2d 0 out-select 2

trigger init [ asic <asic-no> ] [ slice <slice-no> ] lu-a2d 0 out-select 2 [ use-src-id <src-id> ]

### Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
lu-a2d	Trigger at LUA/LUD
0	Trigger at LUD
out-select	out-select
2	{sideband, sb_info, stats, lux_drop_vec}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

### Command Mode

- /exec/elamtah

## trigger init lu-a2d 1

```
trigger init [ asic <asic-no> ] [ slice <slice-no> ] lu-a2d 1 [ use-src-id <src-id> ]
```

### Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
lu-a2d	Trigger at LUA/LUD
1	Trigger at LUA
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

### Command Mode

- /exec/elamtah

# trigger init lu-a2d 1 in-select 10

trigger init [ asic <asic-no> ] [ slice <slice-no> ] lu-a2d 1 in-select 10 [ use-src-id <src-id> ]

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
lu-a2d	Trigger at LUA/LUD
1	Trigger at LUA
in-select	in-select
10	{outer l4, inner l4, ieth}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

## Command Mode

- /exec/elamtah

## trigger init lu-a2d 1 in-select 10 out-select 0

trigger init [ asic <asic-no> ] [ slice <slice-no> ] lu-a2d 1 in-select 10 out-select 0 [ use-src-id <src-id> ]

### Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
lu-a2d	Trigger at LUA/LUD
1	Trigger at LUA
in-select	in-select
out-select	out-select
10	{outer l4, inner l4, ieth}
0	{header_vec, sideband, sb_info}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

### Command Mode

- /exec/elamtah



# trigger init lu-a2d 1 in-select 10 out-select 1

trigger init [ asic <asic-no> ] [ slice <slice-no> ] lu-a2d 1 in-select 10 out-select 1 [ use-src-id <src-id> ]

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
lu-a2d	Trigger at LUA/LUD
1	Trigger at LUA
in-select	in-select
out-select	out-select
10	{outer l4, inner l4, ieth}
1	{header_vec, sideband, lux_drop_vec}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

## Command Mode

- /exec/elamtah

## trigger init lu-a2d 1 in-select 10 out-select 2

trigger init [ asic <asic-no> ] [ slice <slice-no> ] lu-a2d 1 in-select 10 out-select 2 [ use-src-id <src-id> ]

### Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
lu-a2d	Trigger at LUA/LUD
1	Trigger at LUA
in-select	in-select
out-select	out-select
10	{outer l4, inner l4, ieth}
2	{sideband, sb_info, stats, lux_drop_vec}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

### Command Mode

- /exec/elamtah

# trigger init lu-a2d 1 in-select 19

trigger init [ asic <asic-no> ] [ slice <slice-no> ] lu-a2d 1 in-select 19 [ use-src-id <src-id> ]

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
lu-a2d	Trigger at LUA/LUD
1	Trigger at LUA
in-select	in-select
19	{udf_vec}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

## Command Mode

- /exec/elamtah

## trigger init lu-a2d 1 in-select 19 out-select 0

trigger init [ asic <asic-no> ] [ slice <slice-no> ] lu-a2d 1 in-select 19 out-select 0 [ use-src-id <src-id> ]

### Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
lu-a2d	Trigger at LUA/LUD
1	Trigger at LUA
in-select	in-select
out-select	out-select
19	{udf_vec}
0	{header_vec, sideband, sb_info}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

### Command Mode

- /exec/elamtah

# trigger init lu-a2d 1 in-select 19 out-select 1

trigger init [ asic <asic-no> ] [ slice <slice-no> ] lu-a2d 1 in-select 19 out-select 1 [ use-src-id <src-id> ]

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
lu-a2d	Trigger at LUA/LUD
1	Trigger at LUA
in-select	in-select
out-select	out-select
19	{udf_vec}
1	{header_vec, sideband, lux_drop_vec}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

## Command Mode

- /exec/elamtah

## trigger init lu-a2d 1 in-select 19 out-select 2

trigger init [ asic <asic-no> ] [ slice <slice-no> ] lu-a2d 1 in-select 19 out-select 2 [ use-src-id <src-id> ]

### Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
lu-a2d	Trigger at LUA/LUD
1	Trigger at LUA
in-select	in-select
out-select	out-select
19	{udf_vec}
2	{sideband, sb_info, stats, lux_drop_vec}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

### Command Mode

- /exec/elamtah

## trigger init lu-a2d 1 in-select 6

trigger init [ asic <asic-no> ] [ slice <slice-no> ] lu-a2d 1 in-select 6 [ use-src-id <src-id> ]

### Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
lu-a2d	Trigger at LUA/LUD
1	Trigger at LUA
in-select	in-select
6	{outer l2, outer l3, outer l4}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

### Command Mode

- /exec/elamtah

## trigger init lu-a2d 1 in-select 6 out-select 0

trigger init [ asic <asic-no> ] [ slice <slice-no> ] lu-a2d 1 in-select 6 out-select 0 [ use-src-id <src-id> ]

### Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
lu-a2d	Trigger at LUA/LUD
1	Trigger at LUA
in-select	in-select
out-select	out-select
6	{outer l2, outer l3, outer l4}
0	{header_vec, sideband, sb_info}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

### Command Mode

- /exec/elamtah



# trigger init lu-a2d 1 in-select 6 out-select 1

trigger init [ asic <asic-no> ] [ slice <slice-no> ] lu-a2d 1 in-select 6 out-select 1 [ use-src-id <src-id> ]

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
lu-a2d	Trigger at LUA/LUD
1	Trigger at LUA
in-select	in-select
out-select	out-select
6	{outer l2, outer l3, outer l4}
1	{header_vec, sideband, lux_drop_vec}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

## Command Mode

- /exec/elamtah

## trigger init lu-a2d 1 in-select 6 out-select 2

```
trigger init [ asic <asic-no> ] [ slice <slice-no> ] lu-a2d 1 in-select 6 out-select 2 [ use-src-id <src-id> ]
```

### Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
lu-a2d	Trigger at LUA/LUD
1	Trigger at LUA
in-select	in-select
out-select	out-select
6	{outer I2, outer I3, outer I4}
2	{sideband, sb_info, stats, lux_drop_vec}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

### Command Mode

- /exec/elamtah

## trigger init lu-a2d 1 in-select 7

trigger init [ asic <asic-no> ] [ slice <slice-no> ] lu-a2d 1 in-select 7 [ use-src-id <src-id> ]

### Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
lu-a2d	Trigger at LUA/LUD
1	Trigger at LUA
in-select	in-select
7	{inner l2, inner l3, inner l4}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

### Command Mode

- /exec/elamtah

## trigger init lu-a2d 1 in-select 7 out-select 0

trigger init [ asic <asic-no> ] [ slice <slice-no> ] lu-a2d 1 in-select 7 out-select 0 [ use-src-id <src-id> ]

### Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
lu-a2d	Trigger at LUA/LUD
1	Trigger at LUA
in-select	in-select
out-select	out-select
7	{inner l2, inner l3, inner l4}
0	{header_vec, sideband, sb_info}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

### Command Mode

- /exec/elamtah

# trigger init lu-a2d 1 in-select 7 out-select 1

trigger init [ asic <asic-no> ] [ slice <slice-no> ] lu-a2d 1 in-select 7 out-select 1 [ use-src-id <src-id> ]

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
lu-a2d	Trigger at LUA/LUD
1	Trigger at LUA
in-select	in-select
out-select	out-select
7	{inner l2, inner l3, inner l4}
1	{header_vec, sideband, lux_drop_vec}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

## Command Mode

- /exec/elamtah

## trigger init lu-a2d 1 in-select 7 out-select 2

```
trigger init [ asic <asic-no> ] [ slice <slice-no> ] lu-a2d 1 in-select 7 out-select 2 [ use-src-id <src-id> ]
```

### Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
lu-a2d	Trigger at LUA/LUD
1	Trigger at LUA
in-select	in-select
out-select	out-select
7	{inner l2, inner l3, inner l4}
2	{sideband, sb_info, stats, lux_drop_vec}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

### Command Mode

- /exec/elamtah

## trigger init lu-a2d 1 in-select 8

trigger init [ asic <asic-no> ] [ slice <slice-no> ] lu-a2d 1 in-select 8 [ use-src-id <src-id> ]

### Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
lu-a2d	Trigger at LUA/LUD
1	Trigger at LUA
in-select	in-select
8	{outer l2, inner l2, ieth}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

### Command Mode

- /exec/elamtah

## trigger init lu-a2d 1 in-select 8 out-select 0

trigger init [ asic <asic-no> ] [ slice <slice-no> ] lu-a2d 1 in-select 8 out-select 0 [ use-src-id <src-id> ]

### Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
lu-a2d	Trigger at LUA/LUD
1	Trigger at LUA
in-select	in-select
out-select	out-select
8	{outer l2, inner l2, ieth}
0	{header_vec, sideband, sb_info}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

### Command Mode

- /exec/elamtah



# trigger init lu-a2d 1 in-select 8 out-select 1

trigger init [ asic <asic-no> ] [ slice <slice-no> ] lu-a2d 1 in-select 8 out-select 1 [ use-src-id <src-id> ]

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
lu-a2d	Trigger at LUA/LUD
1	Trigger at LUA
in-select	in-select
out-select	out-select
8	{outer l2, inner l2, ieth}
1	{header_vec, sideband, lux_drop_vec}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

## Command Mode

- /exec/elamtah

## trigger init lu-a2d 1 in-select 8 out-select 2

```
trigger init [ asic <asic-no> ] [ slice <slice-no> ] lu-a2d 1 in-select 8 out-select 2 [ use-src-id <src-id> ]
```

### Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
lu-a2d	Trigger at LUA/LUD
1	Trigger at LUA
in-select	in-select
out-select	out-select
8	{outer l2, inner l2, ieth}
2	{sideband, sb_info, stats, lux_drop_vec}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

### Command Mode

- /exec/elamtah

## trigger init lu-a2d 1 in-select 9

trigger init [ asic <asic-no> ] [ slice <slice-no> ] lu-a2d 1 in-select 9 [ use-src-id <src-id> ]

### Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
lu-a2d	Trigger at LUA/LUD
1	Trigger at LUA
in-select	in-select
9	{outer 13, inner 13}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

### Command Mode

- /exec/elamtah

## trigger init lu-a2d 1 in-select 9 out-select 0

```
trigger init [ asic <asic-no> ] [ slice <slice-no> ] lu-a2d 1 in-select 9 out-select 0 [ use-src-id <src-id> ]
```

### Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
lu-a2d	Trigger at LUA/LUD
1	Trigger at LUA
in-select	in-select
out-select	out-select
9	{outer I3, inner I3}
0	{header_vec, sideband, sb_info}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

### Command Mode

- /exec/elamtah

# trigger init lu-a2d 1 in-select 9 out-select 1

trigger init [ asic <asic-no> ] [ slice <slice-no> ] lu-a2d 1 in-select 9 out-select 1 [ use-src-id <src-id> ]

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
lu-a2d	Trigger at LUA/LUD
1	Trigger at LUA
in-select	in-select
out-select	out-select
9	{outer 13, inner 13}
1	{header_vec, sideband, lux_drop_vec}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

## Command Mode

- /exec/elamtah

## trigger init lu-a2d 1 in-select 9 out-select 2

```
trigger init [ asic <asic-no> ] [ slice <slice-no> ] lu-a2d 1 in-select 9 out-select 2 [ use-src-id <src-id> ]
```

### Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
lu-a2d	Trigger at LUA/LUD
1	Trigger at LUA
in-select	in-select
out-select	out-select
9	{outer I3, inner I3}
2	{sideband, sb_info, stats, lux_drop_vec}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

### Command Mode

- /exec/elamtah

## trigger init out-select 0

trigger init [ asic <asic-no> ] [ slice <slice-no> ] out-select 0 [ use-src-id <src-id> ]

### Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
out-select	out-select
0	{header_vec, sideband, sb_info}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

### Command Mode

- /exec/elamtah

# trigger init out-select 1

```
trigger init [ asic <asic-no> ] [ slice <slice-no> ] out-select 1 [ use-src-id <src-id> ]
```

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
out-select	out-select
1	{header_vec, sideband, lux_drop_vec}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

## Command Mode

- /exec/elamtah



## trigger init out-select 2

```
trigger init [ asic <asic-no> ] [ slice <slice-no> ] out-select 2 [ use-src-id <src-id> ]
```

### Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
asic	(Optional) ASIC instance
asic-no	(Optional) ASIC instance number
slice	(Optional) ASIC slice
slice-no	(Optional) ASIC slice number
out-select	out-select
2	{sideband, sb_info, stats, lux_drop_vec}
use-src-id	(Optional) Capture on ethernet interface
src-id	(Optional) interface index

### Command Mode

- /exec/elamtah

# trigger reset

trigger reset

Syntax Description

trigger	Define A Trigger
reset	Reset triggers

Command Mode

- /exec/elanms

# trigger route download vrf ipv4

```
trigger route download vrf <vrf-name> { ipv4 <route4> | ipv6 <route6> } [ module <slot-num> ]
```

## Syntax Description

trigger	Trigger
route	IP route related
download	Download
vrf	vrf
vrf-name	vrf name
ipv4	ipv4
route4	ipv4 prefix
ipv6	ipv6
module	(Optional) Module
slot-num	(Optional) Slot number of the module

## Command Mode

- /exec

# 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

# ttag-strip

[no] ttag-strip

Syntax Description

no	(Optional) Negate a command or set its defaults
ttag-strip	strip ttag from egress packet on this 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
ebgp-ttl	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
ip-addr	IPv4 address (A.B.C.D)
ip-prefix	IPv4 mask (A.B.C.D/LEN)
ip-mask	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
age-time	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
mtu	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
intf	interface
ip-addr	IPv4 address (A.B.C.D)
ip-prefix	IPv4 address (A.B.C.D/LEN)
ip-mask	(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
ttl_val	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
vrf-name	VRF name
vrf-known-name	Known VRF name

### Command Mode

- /exec/configure/if-any-tunnel

# type IGP

[no] type IGP

Syntax Description

no	(Optional) Negate a command or set its defaults
type	Dynamic path-option metric type
IGP	Use IGP metric

Command Mode

- /exec/configure/sr/te/pol/cndpaths/pref/dyn/metric

# type IGP

[no] type IGP

Syntax Description

no	(Optional) Negate a command or set its defaults
type	Dynamic path-option metric type
IGP	Use IGP metric

Command Mode

- /exec/configure/sr/te/color/cndpaths/pref/dyn/metric

# type link

[no] type { link | node }

## Syntax Description

no	(Optional) Negate a command or set its defaults
type	Configure Disjointness type
link	Link Disjointness
node	Node Disjointness

## Command Mode

- /exec/configure/sr/te/color/cndpaths/pref/constraint/assoc/type-disj

# type link

[no] type { link | node }

Syntax Description

no	(Optional) Negate a command or set its defaults
type	Configure Disjointness type
link	Link Disjointness
node	Node Disjointness

Command Mode

- /exec/configure/sr/te/pol/cndpaths/pref/constraint/assoc/type-disj

type link



## U Commands

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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)
udf_name	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
offset	Enter Offset in bytes for UDF (from offset base)
length	Enter Length in bytes for UDF (from offset)

## Command Mode

- /exec/configure

## udf netflow-rtp

udf <udf\_name> netflow-rtp | no udf <udf\_name> [ netflow-rtp ]

### Syntax Description

no	Negate the command
udf	Define the User Defined Field (UDF)
udf_name	Name of the UDF to configure
netflow-rtp	Configure netflow rtp udf

### 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 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
i0	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)
control	(Optional) enable
source-ip-address	(Optional) <source-port-number>
udp-echo	UDP Echo Operation
hostname	Destination hostname, broadcast disallowed
ip-address	Destination IP address, broadcast disallowed
port	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
source-ip-hostname	(Optional) source IP hostname, broadcast disallowed
source-port	(Optional) Source Port
source-port-number	(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)
codec	(Optional) g711alaw
codec-numpackets	(Optional) codec-size
source-port	(Optional) interval
codec-numpack	(Optional) <codec-bytes>
source-ip-hostname	(Optional) <source-ip-address>
udp-jitter	UDP Jitter Operation
hostname	Destination hostname, broadcast disallowed
ip-address	Destination IP address, broadcast disallowed
dest-port	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
advantage-num	(Optional) Advantage Factor
codec-int	(Optional) Delay
codec-bytes	(Optional) Number of bytes in payload
packet-interval	(Optional) Delay (default 20)
num-packets	(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
source-ip-hostname	(Optional) source IP hostname, broadcast disallowed
source-ip-address	(Optional) source IP address, broadcast disallowed
source-port	(Optional) Source Port
src-port	(Optional) Port Number (Recommended port range between 1025-65534)

**Command Mode**

- /exec/configure/ip-sla

# undebg all

undebg all

Syntax Description

undebg	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
nb-of-fields	(Optional) number of initial fields to ignore
nb-of-chars	(Optional) number of initial chars to ignore
nb-chars-to-compare	(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
unsupp-rmap-name	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
ucos-value	COS value

## Command Mode

- /exec/configure/if-set-qos

# 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
interface	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
interface	Interface name

## Command Mode

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

# update license

```
update license <uri0> { <license-file> [ force ] | <s0> }
```

## Syntax Description

update	Update license
license	Update a license file
uri0	Specify URL for the new license file
license-file	License file to be updated
force	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
s0	License file to be updated

## Command Mode

- /exec



# update license

```
update license <uri0> { <license-file> [ force ] | <s0> }
```

## Syntax Description

update	Update license
license	Update a license file
uri0	Specify URL for the new license file
license-file	License file to be updated
force	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
s0	License file to be updated

## Command Mode

- /exec

## use-chunking size

use-chunking size <kbytes> | no use-chunking

Syntax Description

no	Negate a command or set its defaults
use-chunking	Enable chunking
size	Chunk size
kbytes	Specify chunking size in kilobytes

Command Mode

- /exec/configure/telemetry/destination-group

## 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-nodeid

use-nodeid <nodeid> | no use-nodeid

Syntax Description

no	Negate a command or set its defaults
use-nodeid	Set the node ID (Max size 128)
nodeid	Node ID (Max size 128)

Command Mode

- /exec/configure/telemetry/destination-profile

## use-retry size

use-retry size <mbytes> | no use-retry

### Syntax Description

no	Negate a command or set its defaults
use-retry	Specify send retry details
size	Retry buffer size
mbytes	Buffer size in Mega bytes

### Command Mode

- /exec/configure/telemetry/destination-profile

## 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
vrf-cfg-name	Configurable VRF name

### Command Mode

- /exec/configure/telemetry/destination-profile

# 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
vrf-name	VRF name
vrf-known-name	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
vrf_name	name of the vrf

### Command Mode

- /exec/configure/radius



# 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
vrf_name	name of the vrf

## Command Mode

- /exec/configure/tacacs+

## 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
jid	Enter user Jabber ID
password	Password
0	(Optional) Password that follows should be in clear text
clear	(Optional) Password in clear text
7	(Optional) Password that follows should be in encrypted text
encrypted	(Optional) Encrypted password
password	(Optional) Enter password in clear text

### Command Mode

- /exec/configure/fabric-db/server-xmpp

# 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
limit	(Optional) login session maximum

Command Mode

- /exec/configure

## user max-logins

user max-logins <limit>

Syntax Description

user	Configure system-wide user settings
max-logins	maximum simultaneous logins
limit	login session maximum

Command Mode

- /exec/configure

# username

{ [ no ] username <name> }

## Syntax Description

username	user name
name	user name

## Command Mode

- /exec/configure/dot1x-cred

## 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.
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	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
s7	user name
priv-lvl	(Optional) privilege level which the user is to be assigned to
p	(Optional) privilege level

### Command Mode

- /exec/configure

# 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	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
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.
s0	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

no	(Optional) Negate a command or set its defaults
username	Configure user information.
s0	user name
sshkey2	Update ssh key for the user for ssh authentication
file	ssh key file
uri0	file containing host public key for the user
line	ssh key for the user

## Command Mode

- /exec/configure

## username keypair export

```
{ username <s0> keypair export <s1> { dsa | rsa | ecdsa } [ 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
ecdsa	Use ECDSA Keys
s0	user name
s1	Enter filename to export to

### Command Mode

- /exec/configure

## username keypair generate

```
{ username <s0> keypair generate { dsa [ force ] | rsa [ <i0> | <oldrange> ] [ force ] | ecdsa { <i0> } [ force ] } | no username <s0> keypair generate [ { dsa [ force ] | rsa [ <i0> | <oldrange> ] [ force ] | ecdsa [ { <i0> } [ force ] ] } ] }
```

### Syntax Description

no	Negate a command or set its defaults
username	Configure user information.
s0	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
i0	(Optional) Enter number of bits (in multiples of 8)
oldrange	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
ecdsa	Generate ECDSA keys
i0	Enter key size in bits (256, 384 or 521)
force	(Optional) Force the generation of keys even if previous ones are present

### Command Mode

- /exec/configure

## username keypair import

```
{ username <s0> keypair import <s1> { dsa | rsa | ecdsa } [ 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
ecdsa	Use ECDSA Keys
s0	user name
s1	Enter filename to import

### Command Mode

- /exec/configure

## username passphrase

```
[no] username <username> passphrase { lifetime [ warntime [ gracetime | timevalues ] | gracetime [ warntime | timevalues ] | timevalues ] | warntime [ lifetime [ gracetime | timevalues ] | gracetime [ lifetime | timevalues ] | timevalues ] | gracetime [ lifetime [ warntime | timevalues ] | warntime [ lifetime | timevalues ] | timevalues ] | timevalues }
```

### Syntax Description

no	Negate a command or set its defaults
username	Configure user information.
username	user name
passphrase	user passphrase
lifetime	user passphrase lifetime
warntime	(Optional) user passphrase warningtime
gracetime	(Optional) user passphrase gracetime
timevalues	(Optional) passphrase lifetime, warningtime and gracetime

### Command Mode

- /exec/configure

## username passphrase

username <username> passphrase { lifetime <ltime> | warntime <wtime> | gracetime <gtime> } +

### Syntax Description

username	Configure user information.
username	user name
passphrase	user passphrase
lifetime	user passphrase lifetime
ltime	lifetime of passphrase (in days)
warntime	user passphrase warningtime
wtime	warning period of passphrase (in days)
gracetime	user passphrase gracetime
gtime	grace period of passphrase (in days)

### 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
user	Username
password	Password for user
0	Indicates that the password that follows should be in clear text
pass1	Password for the user (clear text)
5	Indicates that the password that follows should be encrypted
pass2	strongly encrypted password
pass3	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.
s1	user name
ssh-cert-dn	Update cert dn
s2	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.
s0	user name
sshkey	Update ssh key for the user for ssh authentication
file	ssh key file
uri0	file containing host public key for the user
line	ssh key for the user
no	Negate a command or set its defaults

### Command Mode

- /exec/configure

# userpassphrase

```
userpassphrase { default-lifetime <def-ltime> | default-warntime <def-wtime> | default-gracetime <def-gtime>
} +
```

## Syntax Description

userpassphrase	user passphrase
default-lifetime	passphrase default lifetime in days
default-warntime	passphrase default warning time in days
default-gracetime	passphrase default gracetime in days
def-ltime	default lifetime of passphrase (in days)
def-wtime	default warning time of passphrase (in days)
def-gtime	default grace time of passphrase (in days)

## 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

[no] userpassphrase { default-lifetime | default-wartime | default-gracetime | timevalues }

## Syntax Description

no	Negate a command or set its defaults
userpassphrase	user passphrase
default-lifetime	passphrase default lifetime
default-wartime	passphrase default warningtime
default-gracetime	passphrase default gracetime
timevalues	passphrase lifetime, warning time and gracetime

## 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
min-len	minimum length of passphrase
max-len	maximum length of passphrase

### Command Mode

- /exec/configure

## userpassphrase min

[no] userpassphrase { min-length <min-len> | max-length <max-len> } +

Syntax Description

no	Negate a command or set its defaults
userpassphrase	user passphrase
min-length	passphrase minimum length
max-length	passphrase maximum length
min-len	minimum length of passphrase
max-len	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
s0	Search Map attribute-name
search-filter	LDAP search-filter
s1	Search Map search-filter
base-DN	LDAP base-DN
s2	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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# vdc

```
vdc <e-vdc> [ id <new_id> ] [ type <vtype> ]
```

## Syntax Description

vdc	Manage Virtual Device Context
e-vdc	Enter Virtual Device Context <vdc-id>
id	(Optional) force this vdc into a specific id
new_id	(Optional) force this vdc into a specific id
type	(Optional) Create vdc with a special set of services
vtype	(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
e-vdc	Enter Virtual Device Context <vdc-id>
force	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

## 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 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
name	Resource template name
res-mgr-template-known-name	Resource template name

### Command Mode

- /exec/configure

## vdc suspend

[no] vdc <en-vdc> suspend

Syntax Description

vdc	Manage Virtual Device Context
en-vdc	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



# vdc suspend

vdc <en-vdc> suspend

Syntax Description

vdc	Manage Virtual Device Context
en-vdc	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

## 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
profile-name	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
profile-name	Static Profile Map: Configure profile name via CLI
dynamic	Dynamic Profile Map: Retrieve profile name from the external server
dot1q	Dot1Q Encapsulation
vlan-id	

### 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
profile-name	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
vni-id	
static	Static Profile Map: Configure profile name via CLI
dynamic	Dynamic Profile Map: Retrieve profile name from the external server
profile-name	Static Profile Map: Configure profile name via CLI

### Command Mode

- /exec/configure/profile-map /exec/configure/profile-map-global

# 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
all_conf_profile_name	Enter the name of configuration profile
__readonly__	(Optional)
TABLE_profile_name	(Optional)
missing_param	(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 9

version 9

Syntax Description

version	Specify the export version
9	Version 9 Export

Command Mode

- /exec/configure/nfm-exporter

# virtual-rmac

[no] virtual-rmac <mac> | no virtual-rmac

## Syntax Description

no	(Optional) Negate a command or set its defaults
virtual-rmac	Static Virtual RMAC configuration
mac	Specify Virtual Router MAC Address

## Command Mode

- /exec/configure/if-nve

# 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 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
virt_serv_name	Name of existing virtual service
log	Move log files
core	Move core files
to	Destination directory to move log or core files to
dir_uri	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> } } [ { <proto> { <port_num> | <port_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
prefix	IPV6 prefix length
proto	(Optional) Protocol for vip
port_num	(Optional) Port Number
port_any	(Optional) Port any
advertise	(Optional) advertise
enable	(Optional) Enable
disable	(Optional) Disable
active	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
device-group	(Optional) device-group
dgrp_name	(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
ip-addr	IPv4 prefix in format i.i.i.i
ip-mask	IPv4 prefix mask in format m.m.m.m
ip	(Optional) IPv4 address
udp	(Optional) UDP port
tcp	(Optional) TCP port
port_num	(Optional) Port Number
any	(Optional) Any Port Number
arp	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
advertise	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
enable	(Optional) Enable
disable	(Optional) Disable
device-group	(Optional) Specify device group mapped to VIP
group-name	(Optional) Device-group name mapped to VIP

## Command Mode

- /exec/configure/plb

# virtual ip

```
[no] virtual ip { <ip-addr> <ip-mask> } [ { <proto> { <port_num> | <port_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
ip-addr	IP address in format i.i.i.i
ip-mask	IP network mask in format m.m.m.m
proto	(Optional) Protocol for vip
port_num	(Optional) Port Number
port_any	(Optional) Port any
advertise	(Optional) advertise
enable	(Optional) Enable
disable	(Optional) Disable
active	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
device-group	(Optional) device-group
dgrp_name	(Optional) VIP device-group name

## Command Mode

- /exec/configure/itd

## virtual peer-link destination source

virtual peer-link destination <dst-ip> source <src-ip> [ dscp <dscp-val> ] | no virtual peer-link

### Syntax Description

no	Negate a command or set its defaults
virtual	Virtual peer-link
peer-link	peer-link to peer switch
destination	specify destination ip address of peer switch
dst-ip	IPv4 address (A.B.C.D) of destination
source	source interface for peer-link
src-ip	IPv4 address (A.B.C.D) of source
dscp	(Optional) Set dscp value
dscp-val	(Optional) dscp value

### Command Mode

- /exec/configure/vpc-domain

# 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-pruning enable

vlan-pruning enable | no vlan-pruning enable

Syntax Description

no	Negate a command or set its defaults
vlan-pruning	Configure Vlan-pruning feature
enable	Set the mode for vlan-pruning

Command Mode

- /exec/configure/l2mp-isis/l2mp-isis-vrf-common

# 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
vlans	VLAN IDs of the allowed fabricpath VLANs in the anycast bundle

Command Mode

- /exec/configure/anycast

# vlan2

[no] vlan2 <vlan-id-create-delete>

Syntax Description

no	(Optional) Negate a command or set its defaults
vlan2	Vlan commands
vlan-id-create-delete	VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19

Command Mode

- /exec/configure

# vlan

[no] vlan <vlan-range>

Syntax Description

no	(Optional) Negate a command or set its defaults
vlan	add vlan to vlan group
vlan-range	range of vlans

Command Mode

- /exec/configure/itd-vlan-grp



# vlan

[no] vlan <vlan-range>

Syntax Description

no	(Optional) Negate a command or set its defaults
vlan	vlan
vlan-range	range of vlans

Command Mode

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

# vlan access-map

[no] vlan access-map <name> [ <seqno> ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
vlan	Vlan commands
name	List name
access-map	Configure a VLAN access map
seqno	(Optional) Sequence number

## Command Mode

- /exec/configure

# vlan configuration

[no] vlan configuration <vlan-id-create-delete>

Syntax Description

no	(Optional) Negate a command or set its defaults
vlan	Vlan commands
configuration	vlan feature configuration mode
vlan-id-create-delete	VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19

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
vlan-id	vlan range, Example: 1,3-5,7,9-11
bd-id	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
prio	bridge priority in increments of 4096

### Command Mode

- /exec/configure/spanning-tree/pseudo

## 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
vlan-id	vlan range, Example: 1,3-5,7,9-11
bd-id	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
prio	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
connection-name	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
connection-name	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

## 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
segment-id	segment-id
zero-segment-id	segment-id

### Command Mode

- /exec/configure/vlan

# vni

[no] vni <vni-id-sh>

Syntax Description

no	(Optional) Negate a command or set its defaults
vni	Configure a vni-based static host
vni-id-sh	

Command Mode

- /exec/configure/static-host

# vni

{ vni <vni-id> | no vni }

## Syntax Description

no	Negate a command or set its defaults
vni	Vni
vni-id	Configure vni id

## Command Mode

- /exec/configure/configngoamconnectcheck

# vni

{ vni <id> } | { no vni [ <id> ] }

## Syntax Description

no	Negate a command or set its defaults
vni	Virtual Network Identifier
id	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
vni_id	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
vpc_num	(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
domain_id	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 /exec/configure/if-p2p

## 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

# 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>
otv-isis-vpn-name	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
vpn-id	OUI:VPN-Index, format (hex) <3 bytes OUI:4 bytes VPN-Index>

## Command Mode

- /exec/configure/vrf

# vrf

[no] vrf { <vrf-name> | <vrf-known-name> }

## Syntax Description

no	(Optional) Negate a command or set its defaults
vrf	set vrf membership
vrf-name	VRF name
vrf-known-name	Known VRF name

## Command Mode

- /exec/configure/config-monitor-erspan-src

# vrf

[no] vrf <vrf-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
vrf	Configure RIP VRF information
vrf-name	VRF name

Command Mode

- /exec/configure/router-rip



# vrf

[no] vrf [ <name> ]

Syntax Description

no	(Optional) Negate a command or set its defaults
vrf	Catena service vrf
name	(Optional) Catena Service VRF name

Command Mode

- /exec/configure/catena-device-grp

# vrf

```
{ { vrf { <vrf-name> | <vrf-known-name> } } | no vrf }
```

## Syntax Description

no	Negate a command or set its defaults
vrf	Display per-VRF information
vrf-name	VRF name
vrf-known-name	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 ISIS VRF information
vrf-name	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	Display per-VRF information
vrf-name	VRF name

Command Mode

- /exec/configure/router-ospf3

# vrf

[no] vrf <vrf-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
vrf	Configure VRF information
vrf-name	VRF name

Command Mode

- /exec/configure/router-eigrp

# vrf

[no] vrf <vrf-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
vrf	Display per-VRF information
vrf-name	VRF name

Command Mode

- /exec/configure/router-ospf

# vrf

{ vrf <name> } | { no vrf <name> }

## Syntax Description

no	Negate a command or set its defaults
vrf	ITD service vrf
name	ITD Service VRF name

## Command Mode

- /exec/configure/itd

# vrf

[no] vrf <vrf-cfg-name>

Syntax Description

vrf-cfg-name	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
vrf-name	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	Configure vrf for PLB service
vrf-name	VRF name

Command Mode

- /exec/configure/plb

# 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 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
vrf-name	VRF name
vrf-name	VRF name
vrf-name	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
profile-name	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> | 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
vrf-name	VRF name

## Command Mode

- /exec/configure/if-igp /exec/configure/if-mgmt-ether

# 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
vrf_name	VRF name
vrf-known-name	Known VRF name

## Command Mode

- /exec/configure/track

## 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
vrf-name	VRF name
static	Static Profile Map: Configure profile name via CLI
profile-name	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
vr_id	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
peer_intf_ip	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\_v6>

Syntax Description

no	(Optional) Negate a command or set its defaults
vrrpv3	Configure VRRPv3 group parameters
address-family	IPV6 address family
opt_v6	Enter ipv6
group_id	VRRP Group ID

Command Mode

- /exec/configure/if-eth-any /exec/configure/if-vlan

## 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
opt_v4	Enter ipv4
group_id	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
tag	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
name	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

## vtp

[no] vtp

Syntax Description

no	(Optional) Negate a command or set its defaults
vtp	Enable VTP on this interface

Command Mode

- /exec/configure/if-switching

# vtp domain

vtp domain <domain\_name>

## Syntax Description

vtp	Configure global VTP state
domain	Set the name of the VTP administrative domain
domain_name	The ascii name for the VTP administrative domain

## Command Mode

- /exec/configure

## vtp file

vtp file <file\_name> | no vtp file

### Syntax Description

no	Negate a command or set its defaults
vtp	Configure global VTP state
file	Set the name of the VTP file name
file_name	URI for vlan.dat

### Command Mode

- /exec/configure

# vtp password

vtp password <password\_name> | no vtp password

## Syntax Description

no	Negate a command or set its defaults
vtp	Configure global VTP state
password	Set the password for the VTP administrative domain
password_name	The ascii password for the VTP administrative domain

## Command Mode

- /exec/configure

## vtp pruning

vtp pruning | no vtp pruning

Syntax Description

no	Negate a command or set its defaults
vtp	Configure global VTP state
pruning	Set the administrative domain to permit pruning

Command Mode

- /exec/configure

# vtp version

vtp version <version\_num> | no vtp version

## Syntax Description

no	Negate a command or set its defaults
vtp	Configure global VTP state
version	Set the administrative domain to VTP version
version_num	Set the administrative domain to VTP version

## Command Mode

- /exec/configure







## W Commands

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# 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

watch	execute a program periodically
differences	(Optional) highlight the differences
interval	(Optional) watch interval
time	(Optional) interval in seconds
watch_cmd	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
service-name	Name of the service/pod to watch
action	Action to be applied
apply-acl	Change ACL config
acl-name	Name of the acl to apply

Command Mode

- /exec/configure/kubernetes

# watchlist

[no] watchlist <watchlistname>

## Syntax Description

watchlist	Specify POSTCARD watchlist to use
watchlistname	Name of watchlist

## Command Mode

- /exec/configure/config-postcard-monitor

# watchlist

[no] watchlist <watchlistname>

## Syntax Description

watchlist	Specify INT watchlist to use
watchlistname	Name of watchlist

## Command Mode

- /exec/configure/config-int-monitor

## 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> | <ip\_v6> }

### 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
ip	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
weight	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
weight-value	weight value

## Command Mode

- /exec/configure/itd-dg-node

# 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
weight	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-value> | no weight

## Syntax Description

no	Negate a command or set its defaults
weight	Configure weight of node for traffic distribution
weight-value	weight value

## Command Mode

- /exec/configure/plb-dg-node

# where

where

Syntax Description

where	shows the cli context you are in
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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

# window-size

[no] window-size <size>

Syntax Description

window-size	Configure Window size
size	window size value

Command Mode

- /exec/configure/macsec-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
qid	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

# write erase poap

write erase poap

Syntax Description

write	Write current configuration
erase	Destroys the configuration on persistent media
poap	Removes System-wide POAP disable 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
qid	Provide qid value
cos	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
bw	Value in percentage (Default is set to 50)

Command Mode

- /exec/configure

## wwn vsan vsan-wwn

wwn vsan <i0> vsan-wwn <wwn1> | no

### Syntax Description

vsan	<i0>
no	Negate a command or set its defaults
wwn	Set secondary base MAC addr and range for additional WWNs
i0	Enter the vsan id
vsan-wwn	vsan-wwn for vsan in interop mode 4
wwn1	Enter wwn for vsan in interop mode 4

### Command Mode

- /exec/configure







## X Commands

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- [xml](#), on page 4448
- [xml](#), on page 4449
- [xml server max-session](#), on page 4450
- [xml server terminate session](#), on page 4451
- [xml server timeout](#), on page 4452
- [xml server validate](#), on page 4453
- [xmlin](#), on page 4454
- [xmlin](#), on page 4455
- [xmlin](#), on page 4456
- [xmlin](#), on page 4457
- [xmlout](#), on page 4458

# 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
number	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
session_id	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
value	timeout in seconds
session_id	(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
session_id	session number

### 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