



Cisco Nexus 9000 Series NX-OS Command Reference (Configuration Commands), Release 7.0(3)I5(1)

First Published: 2017-02-13

Last Modified: 2018-02-15

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Preface

This preface includes the following sections:

- [Audience, on page cxxv](#)
- [Documentation Conventions, on page cxxv](#)
- [Documentation Feedback, on page cxxvi](#)
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Audience

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

Documentation Conventions

Command descriptions use the following conventions:

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

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

Examples use the following conventions:

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

Documentation Feedback

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

Communications, Services, and Additional Information

- To receive timely, relevant information from Cisco, sign up at [Cisco Profile Manager](#).
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- To submit a service request, visit [Cisco Support](#).
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- 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

- [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.



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aaa accounting default

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

Syntax Description

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

Command Mode

- /exec/configure

aaa accounting dot1x default group

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

Syntax Description

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

Command Mode

- /exec/configure

aaa accounting onep default group

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

Syntax Description

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

Command Mode

- /exec/configure

aaa authentication cts default group

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

Syntax Description

Syntax Description		
aaa		Configure aaa functions
authentication		Configure authentication methods
cts		authentication methods for cts
default		default aaa methods
group		server group
<i>grp_name</i>		server group name

Command Mode

- /exec/configure

aaa authentication dot1x default group

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

Syntax Description

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

Command Mode

- /exec/configure

aaa authentication login ascii-authentication

[no] aaa authentication login ascii-authentication

Syntax Description

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

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

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
<i>s0</i>		Server group name
none	(Optional)	No authentication
<i>s1</i>	(Optional)	Server group name
none	(Optional)	No authentication
<i>s2</i>	(Optional)	Server group name
none	(Optional)	No authentication
<i>s3</i>	(Optional)	Server group name
none	(Optional)	No authentication
<i>s4</i>	(Optional)	Server group name
none	(Optional)	No authentication
<i>s5</i>	(Optional)	Server group name
none	(Optional)	No authentication
<i>s6</i>	(Optional)	Server group name
none	(Optional)	No authentication
<i>s7</i>	(Optional)	Server group name
none	(Optional)	No authentication
local		Use local username authentication
local1	(Optional)	Use local username authentication

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

Command Mode

- /exec/configure

aaa authentication login default fallback error local

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

Syntax Description

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

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

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

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

Command Mode

- /exec/configure

aaa authentication login password-aging enable

[no] aaa authentication login password-aging enable

Syntax Description

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

Command Mode

- /exec/configure

aaa authentication onep default group

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

Syntax Description

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

Command Mode

- /exec/configure

aaa authentication rejected

[no] aaa authentication rejected

Syntax Description

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

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

Command Mode

- /exec/configure

aaa authorization2 commands default2

```
[no] aaa authorization2 { commands | config-commands } default2 { { group <grp_name> + [ local2 | none ] } | local2 | none }
```

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
aaa		Configure aaa functions
authorization2		Configure authorization methods
commands		Authorization for all exec-mode commands
config-commands		Authorization for config commands
default2		Configure default methods
group		Specify server groups
<i>grp_name</i>		Server group name
local2	(Optional)	Use local RBACL based authorization
none	(Optional)	No authorization

Command Mode

- /exec/configure

aaa authorization commands console

```
[no] aaa authorization { commands | config-commands } console { { group <grp_name> + [ local | none ] }
| local | none }
```

Syntax Description

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	
<i>grp_name</i>	Server group name	
local	(Optional) Use local RBACL based authorization	
none	(Optional) No authorization	

Command Mode

- /exec/configure

aaa authorization cts default group

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

Syntax Description

Syntax Description

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

Command Mode

- /exec/configure

aaa authorization ssh default group

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

Syntax Description

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	(Optional) Use local username authentication

Command Mode

- /exec/configure

aaa group server ldap

[no] aaa group server ldap <s0>

Syntax Description

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

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

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

Command Mode

- /exec/configure

aaa test-authentication

[no] aaa test-authentication

Syntax Description

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

Command Mode

- /exec/configure

aaa test-radius-authentication

[no] aaa test-radius-authentication

Syntax Description

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

Command Mode

- /exec/configure

aaa user default-role

[no] aaa user default-role

Syntax Description

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

Syntax Description

`abort` Exit region configuration mode, aborting changes

Command Mode

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

abort

abort

Syntax Description

Syntax Description

`abort` abort itd
session

Command Mode

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

abort

abort

Syntax Description

Syntax Description

`abort` Abort the current configuration session

Command Mode

- /exec/configure

absolute-timeout

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

Syntax Description

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

Command Mode

- /exec/configure/line

absolute start

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

Syntax Description

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

Command Mode

- /exec/configure/timerange

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

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

Syntax Description

Syntax Description

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

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

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

Command Mode

- /exec/configure/keychain-key

access-class

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

Syntax Description

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

Command Mode

- /exec/configure/line

access-class

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

Syntax Description

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

Command Mode

- /exe/configure/onep/tls

access-list

[no] access-list <acl-name>

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
---------------------------	----	---

access-list	ITD	access-list name
-------------	-----	------------------

<i>acl-name</i>	ITD	user ACL name
-----------------	-----	---------------

Command Mode

- /exec/configure/itd

access-list

[no] access-list <acl-name>

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
---------------------------	----	---

access-list	ITD	access-list name
-------------	-----	------------------

<i>acl-name</i>	ITD	user ACL name
-----------------	-----	---------------

Command Mode

- /exec/configure/itd

action

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

Syntax Description

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

Command Mode

- /exec/configure/vacli

action

[no] action <label>

Syntax Description

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 cli

action <label> cli [local] <vsh_cmd>

Syntax Description

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

Syntax Description

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

Command Mode

- /exec/configure/event-manager-applet

action eem test

action <label> eem test <param>

Syntax Description

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

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 exceptionlog module syserr devid errtype errcode phylayer ports harderror

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

Syntax Description

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
exceptionlog	Exception log
module	Enter a module number
mod	Enter module number (integer value) or a \$ prefixed parameter name
syserr	Enter syserr
syserr	Enter syserr code (hex value) or a \$ prefixed parameter name
devid	Enter device id
id	Enter device id (integer value) or a \$ prefixed parameter name
errtype	Enter error type
type	Error error type (integer value) or a \$ prefixed parameter name
errcode	Enter error code
code	Enter error code (hex value) or a \$ prefixed parameter name
phylayer	Enter phy layer
phy	Enter phy layer (integer value) or a \$ prefixed parameter name
ports	Enter failed ports
list	List of ports. Example: 1,3,7-15
harderror	Irrecoverable error?
hard	Error sub-category
desc	(Optional) Enter error description
str	(Optional) Error description

Command Mode

- /exec/configure/event-manager-applet

action forceshut reset-reason

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

Syntax Description

Syntax Description

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

Command Mode

- /exec/configure/event-manager-applet

action overbudgetshut

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

Syntax Description

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

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

Command Mode

- /exec/configure/event-manager-applet

action publish-event sub-system type

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

Syntax Description

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

Command Mode

- /exec/configure/event-manager-applet

action reload

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

Syntax Description

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

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

Command Mode

- /exec/configure/event-manager-applet

action syslog msg

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

Syntax Description

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

Command Mode

- /exec/configure/event-manager-applet

activate

[no] activate

Syntax Description

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

Command Mode

- /exec/configure/virt-serv

activate mode-100M

[no] activate mode-100M

Syntax Description

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

Command Mode

- /exec/configure

activity-timer

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

Syntax Description

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

Command Mode

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

additional-paths install backup

[no] additional-paths install backup

Syntax Description

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

additional-paths receive

[no] additional-paths receive

Syntax Description

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

additional-paths selection route-map

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

Syntax Description

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

Command Mode

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

additional-paths send

[no] additional-paths send

Syntax Description

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

address-family ip address port

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

Syntax Description

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

Command Mode

- /exec/configure/telemetry/destination-group

address-family ipv4 labeled-unicast

[no] address-family ipv4 labeled-unicast

Syntax Description

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

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

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

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

Command Mode

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

address-family ipv4 mvpn

[no] address-family ipv4 mvpn

Syntax Description

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

Command Mode

- /exec/configure/router-bgp

address-family ipv4 mvpn

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

Syntax Description

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

Command Mode

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

address-family ipv4 unicast

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

Syntax Description

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

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

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

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

Command Mode

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

address-family ipv4 unicast

[no] address-family ipv4 unicast

Syntax Description

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

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

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

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

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

Command Mode

- /exec/configure/vrf

address-family ipv4 unicast

[no] address-family ipv4 unicast

Syntax Description

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 ipv6 labeled-unicast

[no] address-family ipv6 labeled-unicast

Syntax Description

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

Command Mode

- /exec/configure/router-bgp

address-family ipv6 labeled-unicast

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

Syntax Description

Syntax Description

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

Command Mode

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

address-family ipv6 mvpn

[no] address-family ipv6 mvpn

Syntax Description

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

Syntax Description

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

Command Mode

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

address-family ipv6 unicast

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

Syntax Description

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

address-family ipv6 unicast

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

Syntax Description

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] address-family ipv6 unicast

Syntax Description

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/mpls_static
- /exec/configure/router-eigrp/router-eigrp-vrf-common
- /exec/configure/router-isis/router-isis-vrf-common
- /exec/configure/router-ospf3
- /exec/configure/router-ospf3/vrf
- /exec/configure/router-rip
- /exec/configure/router-rip/router-rip-vrf
- /exec/configure/vrf

address-family l2vpn evpn

[no] address-family l2vpn evpn

Syntax Description

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

Command Mode

- /exec/configure/router-bgp

address-family l2vpn evpn

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

Syntax Description

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

Command Mode

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

address-family l2vpn vpls

[no] address-family l2vpn vpls

Syntax Description

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

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

Command Mode

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

address-family link-state

[no] address-family link-state

Syntax Description

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

Command Mode

- /exec/configure/router-bgp

address-family link-state

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

Syntax Description

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

Command Mode

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

address-family vpnv4 unicast

[no] address-family vpnv4 unicast

Syntax Description

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

Command Mode

- /exec/configure/router-bgp

address-family vpnv4 unicast

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

Syntax Description

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

Command Mode

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

address-family vpnv6 unicast

[no] address-family vpnv6 unicast

Syntax Description

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

Command Mode

- /exec/configure/router-bgp

address-family vpnv6 unicast

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

Syntax Description

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

Command Mode

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

address

[no] address <ip_addr> [primary]

Syntax Description

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

Command Mode

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

address

[no] address <ipv6_addr>

Syntax Description

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

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

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

Command Mode

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

address

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

Syntax Description

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

Command Mode

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

address

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

Syntax Description

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

Command Mode

- /exec/configure/ipnat-pool

address primary

[no] address <ipv6_addr> primary

Syntax Description

Syntax Description

no (Optional) Negate a command or set its defaults

address IP Address

primary Primary Address

Command Mode

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

address secondary

[no] address <ip_addr> secondary

Syntax Description

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

Command Mode

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

address secondary

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

Syntax Description

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

Command Mode

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

adjacency-check

[no] adjacency-check

Syntax Description

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

Command Mode

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

adjacency-resolve

[no] adjacency-resolve

Syntax Description

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

Command Mode

- /exec/configure/router-isis

advertise-labels

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

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
advertise-labels		Label advertisements
vrf	(Optional)	VRF Routing/Forwarding instance information
<i>vrf-name</i>	(Optional)	VPN Routing/Forwarding instance name
<i>vrf-known-name</i>	(Optional)	Known VRF name
for	(Optional)	Prefix list specifying controls on destination prefixes
<i>pfx-list</i>	(Optional)	Name of prefix list
to	(Optional)	Prefix list specifying controls on LDP peers
<i>peer-pfx-list</i>	(Optional)	Name of prefix list
interface	(Optional)	Advertise /32 interface address
<i>intf</i>	(Optional)	

Command Mode

- /exec/configure/ldp

advertise-map exist default advertise-map

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

Syntax Description

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

Command Mode

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

advertise-system-mac

[no] advertise-system-mac

Syntax Description

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 l2vpn evpn

[no] advertise l2vpn evpn

Syntax Description

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

Command Mode

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

advertisement-interval

[no] advertisement-interval <adv-sec>

Syntax Description

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

Command Mode

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

advertisement-interval

[no] advertisement-interval <adv-sec>

Syntax Description

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

Command Mode

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

advertisement-interval

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

Syntax Description

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

Command Mode

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

afd queue-desired

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

Syntax Description

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

Command Mode

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

affinity-group

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

Syntax Description

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

Command Mode

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

affinity-group activate

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

Syntax Description

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

Command Mode

- /exec/configure/router-bgp

affinity

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

Syntax Description

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

Command Mode

- /exec/configure/te/lsp-attr

affinity

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

Syntax Description

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

Command Mode

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

aggregate-address

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

Syntax Description

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

Command Mode

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

aggregate-address

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

Syntax Description

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

Command Mode

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

alert-group user-def-cmd

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

Syntax Description

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

Command Mode

- /exec/configure/callhome

allocate-label all

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

Syntax Description

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

Command Mode

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

allocate1 interface2

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

Syntax Description

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

Command Mode

- /exec/configure/vdc

allocate2 fcoe-vlan-range

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

Syntax Description

Syntax Description

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

Command Mode

- /exec/configure/vdc

allocate3 shared interface3

[no] allocate3 shared interface3 <interface-id>

Syntax Description

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

Command Mode

- /exec/configure/vdc

allow-vni-in-ethertag

[no] allow-vni-in-ethertag

Syntax Description

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

Command Mode

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

allow delete boot-image

[no] allow delete boot-image [retain]

Syntax Description

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

Command Mode

- /exec

allow feature-set

[no] allow feature-set <fs>

Syntax Description

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

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

Command Mode

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

allowas-in

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

Syntax Description

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

Command Mode

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

allowed-locators

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

Syntax Description

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

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

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

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 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

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

Command Mode

- /exec/configure

anonymous-id

{ [no] anonymous-id <id> }

Syntax Description

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

Syntax Description

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

Command Mode

- /exec/configure/te/expl-path

apply profile

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

Syntax Description

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

Command Mode

- /exec/configure

area authentication

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

Syntax Description

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

Command Mode

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

area authentication

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

Syntax Description

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

Command Mode

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

area default-cost

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

Syntax Description

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

Command Mode

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

area default-cost

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

Syntax Description

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

Command Mode

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

area filter-list route-map in

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

Syntax Description

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

Command Mode

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

area filter-list route-map in

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

Syntax Description

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

Command Mode

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

area nssa

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

Syntax Description

Syntax Description

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

Command Mode

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

area nssa

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

Syntax Description

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

Command Mode

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

area nssa translate type7 always never supress-fa

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

Syntax Description

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

Command Mode

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

area nssa translate type7 always never supress-fa

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

Syntax Description

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

Command Mode

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

area range

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

+

Syntax Description

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

Command Mode

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

area range

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

Syntax Description

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

Command Mode

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

area sham-link

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

Syntax Description

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

Command Mode

- /exec/configure/router-ospf/vrf

area stub

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

Syntax Description

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

Command Mode

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

area stub

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

Syntax Description

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

Command Mode

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

area virtual-link

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

Syntax Description

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

Command Mode

- /exec/configure/router-ospf

area virtual-link

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

Syntax Description

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

Command Mode

- /exec/configure/router-ospf/vrf

area virtual-link

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

Syntax Description

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

Command Mode

- /exec/configure/router-ospf3

area virtual-link

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

Syntax Description

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

Command Mode

- /exec/configure/router-ospf3/vrf

arp access-list

[no] arp access-list <name>

Syntax Description

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

Command Mode

- /exec/configure

as-format asdot

as-format asdot | no as-format

Syntax Description

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

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

attach console module

attach console module <module>

Syntax Description

Syntax Description

attach Connect to a specific linecard

console Connect to the console

module Connect to the module
console

module Enter module number

Command Mode

- /exec

attach module

attach module <module>

Syntax Description

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

Command Mode

- /exec

attach module node

attach module <module> node <i0>

Syntax Description

Syntax Description

attach Connect to a specific linecard

module Module number of the linecard

module Enter module number

node Avanti node number on the linecard

i0

Command Mode

- /exec

attach module port

attach module <module> port <i0>

Syntax Description

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

Command Mode

- /exec

auth-mechanism plain

[no] auth-mechanism { plain }

Syntax Description

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

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

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

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

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

Command Mode

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

authentication-key

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

Syntax Description

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

Command Mode

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

authentication-key

{ [no] authentication-key <key> }

Syntax Description

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

Syntax Description

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

Command Mode

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

authentication-type cleartext

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

Syntax Description

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

Command Mode

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

authentication

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

Syntax Description

Syntax Description

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

Command Mode

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

authentication

[no] authentication [message-digest | null]

Syntax Description

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

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

Command Mode

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

authentication

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

Syntax Description

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

Command Mode

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

authentication

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

Syntax Description

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

Command Mode

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

authentication

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

Syntax Description

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

Command Mode

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

authentication

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

Syntax Description

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

Command Mode

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

authentication bind

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

Syntax Description

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

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

Command Mode

- /exec/configure/ip-rsvp

authentication key-chain

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

Syntax Description

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

Command Mode

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

authentication key-chain

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

Syntax Description

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

Command Mode

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

authentication key-chain

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

Syntax Description

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

Command Mode

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

authentication key-chain

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

Syntax Description

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

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

Command Mode

- /exec/configure/ip-rsvp

authentication lifetime

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

Syntax Description

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

Command Mode

- /exec/configure/ip-rsvp

authentication text

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

Syntax Description

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

Command Mode

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

authentication type md5

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

Syntax Description

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

Command Mode

- /exec/configure/ip-rsvp

authentication window-size

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

Syntax Description

Syntax Description

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

Command Mode

- /exec/configure/ip-rsvp

auto-bw

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

Syntax Description

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

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

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

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

Command Mode

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

auto-cost reference-bandwidth

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

Syntax Description

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

Command Mode

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

auto-recovery

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

Syntax Description

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

Syntax Description

no (Optional) Negate a command or set its defaults

auto-remap-replication-servers Automatically re-map replication servers on every replication server add

Command Mode

- /exec/configure/if-nve

autonomous-system

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

Syntax Description

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

Command Mode

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

autoroute announce

[no] autoroute announce

Syntax Description

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

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

Command Mode

- /exec/configure/if-te

autostate

[no] autostate

Syntax Description

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

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

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

Syntax Description

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

Command Mode

- /exec/configure/ldp

backup-bw

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

Syntax Description

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

Command Mode

- /exec/configure/if-te

bandwidth

[no] bandwidth | bandwidth { <bw> }

Syntax Description

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

Command Mode

- /exec/configure/te/lsp-attr

bandwidth

[no] bandwidth | bandwidth { <kbps> }

Syntax Description

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

Command Mode

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

bandwidth

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

Syntax Description

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

Command Mode

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

bandwidth

bandwidth <bandwidth_val> | no bandwidth

Syntax Description

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

Command Mode

- /exec/configure/if-any-tunnel

bandwidth

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

Syntax Description

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

Command Mode

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

bandwidth

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

Syntax Description

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

Command Mode

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

bandwidth

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

Syntax Description

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

Command Mode

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

bandwidth

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

Syntax Description

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

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

Command Mode

- /exec/configure/if-vlan-common

banner motd

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

Syntax Description

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> <quoted-cmd>

Syntax Description

Syntax Description

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

Command Mode

- /exec

bcm-shell module

bcm-shell module <module>

Syntax Description

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

Command Mode

- /exec

beacon

[no] beacon

Syntax Description

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

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

Command Mode

- /output

bestpath

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

Syntax Description

Syntax Description

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

Command Mode

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

bestpath all

[no] bestpath { all-paths-ecmp }

Syntax Description

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

Command Mode

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

bfd-app session auto-expiry timeout

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

Syntax Description

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

Command Mode

- /exec/configure

bfd-app session remove

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

Syntax Description

Syntax Description

bfd-app BFD application commands

session session operation

remove Remove sessions

all Remove all sessions

intf Remove all sessions on interface

intf_id Interface Id

iod interface iod

iod_id Interface iod in hex

Command Mode

- /exec/configure

bfd-app session src-ip dest intf

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

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
bfd-app	BFD application commands
session	session operation
src-ip	Source ip
<i>src_ip</i>	Source ip value
dest-ip	Destination ip
<i>dest_ip</i>	Destination ip value
iod	interface iod
<i>iod_id</i>	Interface iod in hex
intf	interface
<i>intf_id</i>	Interface Id

Command Mode

- /exec/configure

bfd-neighbor

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

Syntax Description

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

Command Mode

- /exec/configure/if-nve

bfd

[no | default] bfd

Syntax Description

Syntax Description

no (Optional) Negate a command or set its defaults

default (Optional) Inherit values from a peer template

bfd Bidirectional Fast Detection for the neighbor

Command Mode

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

bfd

[no] bfd

Syntax Description

Syntax Description

no (Optional) Negate a command or set its defaults

bfd Enable IPv4 BFD on all ISIS interfaces

Command Mode

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

bfd

[no] bfd

Syntax Description

Syntax Description

no (Optional) Negate a command or set its defaults

bfd Enable BFD on all OSPF interfaces

Command Mode

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

bfd

[no] bfd [ipv4 | ipv6]

Syntax Description

Syntax Description

no (Optional) Negate a command or set its defaults

bfd BFD commands

ip4 (Optional) ipv4 sessions

ip6 (Optional) ipv6 sessions

Command Mode

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

bfd

[no] bfd

Syntax Description

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

Syntax Description

no (Optional) Negate a command or set its defaults

bfd Enable BFD on all OSPF interfaces

Command Mode

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

bfd authentication key-id key

```
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

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

Command Mode

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

bfd echo-interface

[no] bfd echo-interface <ifindex>

Syntax Description

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

Command Mode

- /exec/configure

bfd echo-rx-interval

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

Syntax Description

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

Command Mode

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

bfd echo

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

Syntax Description

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

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

Command Mode

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

bfd interval

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

Syntax Description

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

Command Mode

- /exec/configure

bfd interval min_rx multiplier

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

Syntax Description

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

Command Mode

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

bfd interval min_rx multiplier

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

Syntax Description

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

Command Mode

- /exec/configure

bfd move-session target

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

Syntax Description

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

Command Mode

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

bfd neighbor src-ip dest

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

Syntax Description

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

Command Mode

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

bfd optimize subinterface

[no] bfd [ipv4] optimize subinterface

Syntax Description

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

Syntax Description

no (Optional) Negate a command or set its defaults

bfd BFD commands

per-link Run BFD sessions on each port-channel link

ipv4 (Optional) ipv4 sessions

ipv6 (Optional) ipv6 sessions

Command Mode

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

bfd session-store remove client

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

Syntax Description

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

Command Mode

- /exec/configure

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

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

Syntax Description

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

Command Mode

- /exec/configure

bfd session state state

bfd session state <hex_disc> state <state_up_down>

Syntax Description

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

Command Mode

- /exec/configure

bfd slow-timer

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

Syntax Description

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

Command Mode

- /exec/configure

bfd startup-timer bfd startup-timer

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

Syntax Description

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

Command Mode

- /exec/configure

bfd system internal

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

Syntax Description

Syntax Description

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

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

session_expiry_val session expiry sec

Command Mode

- /exec

binary-location

[no] binary-location <source-uri>

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
---------------------------	----	---

binary-location	the location binaries are downloaded from
-----------------	---

<i>source-uri</i>	Location for restoration to pick up binaries
-------------------	--

Command Mode

- /exec/configure/personality

blink

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

Syntax Description

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

Command Mode

- /exec

bloggerd delete all

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

Syntax Description

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

Command Mode

- /exec

bloggerd live-process-core process pid

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

Syntax Description

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

Command Mode

- /exec

bloggerd live-process-core sap

bloggerd live-process-core sap <sap>

Syntax Description

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

Command Mode

- /exec

bloggerd log-dump all

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

Syntax Description

Syntax Description

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

Command Mode

- /exec/configure

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

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

Syntax Description

Syntax Description

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

Command Mode

- /exec

bloggerd log-dump once pss uuid

bloggerd log-dump once pss uuid <uuid>

Syntax Description

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

Command Mode

- /exec

bloggerd log-throttle

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

Syntax Description

Syntax Description

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

Command Mode

- /exec/configure

bloggerd log-transfer

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

Syntax Description

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

Command Mode

- /exec/configure

bloggerd log-transfer

[no] bloggerd log-transfer

Syntax Description

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

Command Mode

- /exec/configure

bloggerd mleak-check directory1 directory2

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

Syntax Description

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

Command Mode

- /exec

bloggerd leak-dump all

bloggerd leak-dump all

Syntax Description

Syntax Description		
	bloggerd	Blogger commands
	leak-dump	Leak dump
	all	All apps on all modules

Command Mode

- /exec

bloggerd parse log-buffer file

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

Syntax Description

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

Command Mode

- /exec

bloggerd parse log-buffer file sap

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

Syntax Description

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

Command Mode

- /exec

bloggerd parse pss file

bloggerd parse pss file <uri0>

Syntax Description

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

boot-install nxos

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

Syntax Description

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

Command Mode

- /exec/configure

boot-order

boot-order <new_id>

Syntax Description

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

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

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

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

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

Command Mode

- /exec/configure

boot mode lxc

[no] boot mode lxc

Syntax Description

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

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

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

Command Mode

- /exec/configure

boot nxos sup-1 sup-2

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

Syntax Description

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

Command Mode

- /exec/configure

boot nxos sup-2

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

Syntax Description

Syntax Description	no Negate a command or set its defaults
	boot Configure boot variables
	nxos Configure NXOS image
	uri0 Enter kickstart image uri
	sp2 Enter sup-2 to configure the 2nd sup

Command Mode

- /exec/configure

boot order bootflash

```
{ boot order bootflash [ pxe ] }
```

Syntax Description

Syntax Description		
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 ] }
```

Syntax Description

Syntax Description	
boot	Configure boot variables
order	Configure loader fallback order
pxe	Pxe Boot
bootflash	(Optional) Boot from Bootflash

Command Mode

- /exec/configure

boot system

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

Syntax Description

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

Command Mode

- /exec/configure

bootmode boot

[no] bootmode boot

Syntax Description

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

Command Mode

- /exec/configure

bootmode extruntime

[no] bootmode extruntime

Syntax Description

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

Command Mode

- /exec/configure

bootmode hitless

[no] bootmode hitless

Syntax Description

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

Command Mode

- /exec/configure

bootmode module

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

Syntax Description

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

Command Mode

- /exec/configure

bootmode nodiagruntime

[no] bootmode nodiagruntime

Syntax Description

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

Command Mode

- /exec/configure

bootmode runtime

[no] bootmode runtime

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
---------------------------	----	---

bootmode	set bootmode for all modules in the switch
----------	--

runtime	boot in runtime mode with normal diags
---------	--

Command Mode

- /exec/configure

buffer-boost

[no] buffer-boost

Syntax Description

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

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

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

burst-detect rise-threshold bytes fall-threshold bytes2

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

Syntax Description

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

Command Mode

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

burst-detect rise-threshold bytes fall-threshold bytes2



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callhome

callhome

Syntax Description

Syntax Description

callhome Enter the callhome configuration mode

Command Mode

- /exec/configure

callhome send configuration

callhome send configuration

Syntax Description

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

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

Command Mode

- /exec

callhome send eem subject body

callhome send eem subject <s1> body <s2>

Syntax Description

Syntax Description

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

Command Mode

- /exec

callhome test

callhome test

Syntax Description

Syntax Description	callhome	callhome commands
---------------------------	----------	-------------------

test	send a test callhome message
------	------------------------------

Command Mode

- /exec

callhome test inventory

callhome test inventory

Syntax Description

Syntax Description

callhome callhome commands

test send a test callhome message

inventory send a dummy callhome inventory

Command Mode

- /exec

callhome test supfail

callhome test supfail

Syntax Description

Syntax Description

callhome callhome commands

test send a test callhome message

supfail send a dummy callhome message about sup failure

Command Mode

- /exec

capability additional-paths receive

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

Syntax Description

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-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 additional-paths send

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

Syntax Description

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

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

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

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

Command Mode

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

carrier-delay

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

Syntax Description

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

Command Mode

- /exec/configure/if-vlan-common

cbts-member tunnel-te

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

Syntax Description

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

Command Mode

- /exec/configure/if-te

cd

cd <uri0>

Syntax Description

Syntax Description	cd	Change current directory
---------------------------	----	--------------------------

	<i>uri0</i>	Enter the name of the directory
--	-------------	---------------------------------

Command Mode

- /exec

cdp advertise v1

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

Syntax Description

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

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

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

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

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

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

Command Mode

- /exec/configure

cfs clear message-context name session-id

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

Syntax Description

Syntax Description

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

Command Mode

- /exec

cfs debug all

cfs debug all

Syntax Description

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

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

Command Mode

- /exec/configure

cfs eth cos

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

Syntax Description

Syntax Description

n Negate a command or set its defaults

e ETH configurations

c Configure CFS Ethernet COS value

i0 COS Value Range

Command Mode

- /exec/configure

cfs eth distribute

[no] cfs eth distribute

Syntax Description

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

Command Mode

- /exec/configure

cfs internal

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

Syntax Description

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

Command Mode

- /exec

cfs internal cfsoe

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

Syntax Description

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

Command Mode

- /exec

cfs ipv4 distribute

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

Syntax Description

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

Command Mode

- /exec/configure

cfs ipv6 distribute

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

Syntax Description

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

Command Mode

- /exec/configure

cfs merge all-fabrics name

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

Syntax Description

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

Command Mode

- /exec

cfs region

[no] cfs region <i0>

Syntax Description

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

change-password

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

Syntax Description

Syntax Description

change-password Change your password

old-password (Optional) Current password for the user

s1 (Optional) Current password for the user (clear text)

new-password (Optional) New password for the user

s2 (Optional) New password for the user (clear text)

Command Mode

- /exec

checkpoint

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

Syntax Description

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

checkpoint

[no] checkpoint <chkpoint_name>

Syntax Description

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

Command Mode

- /exec

cipher-suite

[no] cipher-suite <suite>

Syntax Description

Syntax Description

cipher-suite	Configure Cipher Suite
--------------	------------------------

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

Command Mode

- /exec/configure/masec-policy

class-map

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

Syntax Description

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

Command Mode

- /exec/configure

class-map type control-plane

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

Syntax Description

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

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

Command Mode

- /exec/configure

class-map type psp

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

Syntax Description

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

Command Mode

- /exec/configure

class-map type queuing

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

Syntax Description

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

Command Mode

- /exec/configure

class-map type queuing

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

Syntax Description

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

Command Mode

- /exec/configure

class

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

Syntax Description

Syntax Description

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

Command Mode

- /exec/configure/pmap

class

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

Syntax Description

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

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

Command Mode

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

class class-default

[no] class class-default

Syntax Description

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

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

Command Mode

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

class type network-qos class-default

[no] class type network-qos class-default

Syntax Description

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

Syntax Description

no	(Optional) Negate a command or set its defaults
class	Policy Criteria
type	Specify the type of class
psp	Match on PSP class
<i>omap-name-plc</i>	class map name
handle1	Handle 1
<i>ppf_id1</i>	PPF ID1
insert-before	(Optional) Insert this class before another class
<i>omap-name2</i>	(Optional) class map name
handle2	(Optional) Handle2
<i>ppf_id2</i>	(Optional) PPF ID2

Command Mode

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

class type queuing

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

Syntax Description

Syntax Description

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

Command Mode

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

clean ip bfd

clean ip bfd

Syntax Description

Syntax Description

clean Clean internal datastructures

ip IP related information

bfd clean ip bfd datastructures

Command Mode

- /exec

clean ipv6 bfd

clean ipv6 bfd

Syntax Description

Syntax Description

clean Clean internal datastructures

ipv6 IPV6 related information

bfd clean ip bfd datastructures

Command Mode

- /exec

clear

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

Syntax Description

Syntax Description

clear	Reset functions
ip	Clear IP commands
ipv6	Clear IPv6 commands
eigrp	EIGRP clear commands
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>eigrp-ptag</i>	(Optional) Process tag
topology	Clear IP-EIGRP topology table entry
<i>address</i>	Network to display information about
<i>mask</i>	Network mask
<i>prefix</i>	IP prefix <network>/<length>, e.g., 192.168.0.0/16
<i>eigrp-ptag</i>	(Optional)

Command Mode

- /exec

clear

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

Syntax Description

Syntax Description

clear	Reset functions
ip	Clear IP commands
ipv6	Clear IPv6 commands
eigrp	EIGRP clear commands
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>eigrp-ptag</i>	(Optional) Process tag
neighbors	Clear EIGRP neighbors
*	Clear all EIGRP neighbors
<i>address</i>	IP-EIGRP neighbor address
<i>interface</i>	Interface
soft	(Optional) Soft reset
no-goodbye	(Optional) No goodbye
<i>eigrp-ptag</i>	(Optional)

Command Mode

- /exec

clear

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

Syntax Description

Syntax Description

clear	Reset functions
route	Clear routing information
routing	Clear routing information
vrf	(Optional) Clear per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
ipv6	Clear IPv6 commands
unicast	(Optional) Clear unicast information
topology	(Optional) Clear per-topology information
<i>topology-name</i>	(Optional) Topology name
all	Clear all routes
<i>nh-interface</i>	(Optional) Interface Name
no-ufdm	(Optional) Do not tell UFDM about the change

Command Mode

- /exec

clear

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

Syntax Description

Syntax Description

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

Command Mode

- /exec

clear aaa local user blocked username

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

Syntax Description

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

Command Mode

- /exec

clear access-list counters

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

Syntax Description

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

Command Mode

- /exec

clear access-list hardware counters

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

Syntax Description

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

Command Mode

- /exec

clear access-list ipsg stats

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

Syntax Description

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

Command Mode

- /exec

clear accounting log

clear accounting log

Syntax Description

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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 ] } } | { neighbor <neighbor-id> [ default-originate | { route-map | filter-list |
prefix-list } { in | out } ] } } | { dampening } } | { network { <ip-addr> mask <ip-mask> | <ip-prefix> } } | {
aggregate-address { <ip-addr> <ip-mask> | <ip-prefix> } { suppress-map | advertise-map } } } | { vpnv4 |
vpnv6 } unicast policy statistics { neighbor <neighbor-id> [ { route-map | filter-list | prefix-list } { in | out }
] } | ipv6 { unicast | multicast } policy statistics { { redistribute [ { { eigrp | isis | ospfv3 | rip } <tag> } | static
| direct | amt | lisp | hmm ] } } | { 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

Syntax Description

clear	Reset functions
ipv4	Clear IPv4 address-family
ipv6	Clear IPv6 address-family
vpnv4	Clear VPNv4 address-family
vpnv6	Clear VPNv6 address-family
bgp	Clear BGP sessions
unicast	Clear unicast address-family
multicast	Clear multicast address-family
policy	Clear policy related information
statistics	Clear Route Filter statistics
redistribute	Statistics for redistribution
isis	(Optional) ISO IS-IS
ospf	(Optional) Open Shortest Path First (OSPF)
ospfv3	(Optional) Open Shortest Path First v3
rip	(Optional) Routing Information Protocol
eigrp	(Optional) Enhanced Interior Gateway Protocol
static	(Optional) Static routes
direct	(Optional) Directly connected
amt	(Optional) AMT anycast prefix
lisp	(Optional) LISP EID-prefixes in the non-default VRF

<code>hmm</code>	(Optional) HMM prefix
<code>tag</code>	(Optional) Source protocol tag
<code>neighbor</code>	Clear neighbor specific counters
<code>neighbor-id</code>	Neighbor IPv4 address
<code>route-map</code>	(Optional) Neighbor route-map
<code>prefix-list</code>	(Optional) Neighbor prefix-list
<code>filter-list</code>	(Optional) Neighbor filter-list
<code>out</code>	(Optional) Outbound policy
<code>in</code>	(Optional) Inbound policy
<code>default-originate</code>	(Optional) Default-originate policy
<code>dampening</code>	Clear dampening info
<code>network</code>	Configured IP prefix to advertise
<code>aggregate-address</code>	Configured BGP aggregate prefixes
<code>suppress-map</code>	Statistics of suppress policy
<code>advertise-map</code>	Statistics of advertise policy
<code>ip-addr</code>	IP network advertised
<code>mask</code>	Configured mask of the IP prefix advertised
<code>ip-mask</code>	Dotted 4-octet mask
<code>ip-prefix</code>	IP prefix in CIDR format

Command Mode

- /exec

clear bgp event-history

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

Syntax Description

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

Command Mode

- /exec

clear bgp private

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

Syntax Description

Syntax Description

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

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

Command Mode

- /exec

clear bootvar log

clear bootvar log

Syntax Description

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

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

Command Mode

- /exec

clear checkpoint database

clear checkpoint database [user | system]

Syntax Description

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

Syntax Description

clear Reset functions

cli debug cli

history history of cli
 commands

Command Mode

- /exec

clear controller l2-vxlan accounting log

clear controller l2-vxlan <ctrl-id> accounting log

Syntax Description

Syntax Description		
clear	Show running system information	
controller	Controller command	
l2-vxlan	l2-vxlan	
<i>ctrl-id</i>	Controller id value	
accounting	Accounting	
log	Clear log information	

Command Mode

- /exec

clear copp statistics

clear copp statistics

Syntax Description

Syntax Description

clear Reset functions

copp Clear policy information for copp

statistics Clear statistics

Command Mode

- /exec

clear cores

clear cores

Syntax Description

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

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

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

Syntax Description

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

Command Mode

- /exec

clear counters interface

clear counters interface <ifindex>

Syntax Description

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

Command Mode

- /exec

clear counters interface all

clear counters interface all

Syntax Description

Syntax Description

clear Reset functions

counters Clear counters

interface Clear interface counters

all Clear all interface
 counters

Command Mode

- /exec

clear counters mpls strip

clear counters mpls strip

Syntax Description

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

Command Mode

- /exec

clear counters tah-buffers

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

Syntax Description

Syntax Description

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

Command Mode

- /exec

clear debug-logfile

clear debug-logfile <s0>

Syntax Description

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

Command Mode

- /exec

clear debug logfile

clear debug logfile <s0>

Syntax Description

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> }
```

Syntax Description

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

Command Mode

- /exec

clear dot1x supplicant all

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

Syntax Description

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

Command Mode

- /exec

clear evb hosts

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

Syntax Description

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

Syntax Description		
clear		Reset functions
evb		EVB (Edge Virtual Bridge)
hosts		Clear EVB host information
vsi		Clear EVB vsi information
force-standby	(Optional)	Force to clear standby entries
mac	(Optional)	Clear entries by filtering MAC address
<i>mac-addr</i>	(Optional)	MAC Address
interface	(Optional)	Clear entries by filtering interface
<i>intf-name</i>	(Optional)	Interface name
vlan	(Optional)	Clear entries by filtering VLAN
<i>vlan-id</i>	(Optional)	VLAN ID
vni	(Optional)	Clear entries by filtering VNI
<i>vni-id</i>	(Optional)	VNI
ip	(Optional)	Clear entries by filtering IP address
ipv6	(Optional)	Clear entries by filtering IPv6 address
<i>ip-addr</i>	(Optional)	IPV4 host address

Command Mode

- /exec

clear evb internal adjacency

clear evb internal adjacency

Syntax Description

Syntax Description		
clear	Reset functions	
evb	EVB (Edge Virtual Bridge)	
internal	Clear EVB internal information	
adjacency	Clear EVB adjacency state	

Command Mode

- /exec

clear evb internal event-history

```
clear evb internal event-history { all | <evt-hist-subsystem> }
```

Syntax Description

Syntax Description		
clear		Reset functions
evb		Clear EVB information
internal		Clear EVB internal information
event-history		Clear EVB event history buffers
all		All EVB logs
<i>evt-hist-subsystem</i>		EVB event history buffers

Command Mode

- /exec

clear evb statistics

clear evb statistics

Syntax Description

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

Syntax Description

clear	Reset functions
fabric	Fabric
database	Fabric Database
dci	DCI profile
vrf	Display per-VRF information
<i>vrf-name</i>	VRF name
<i>vrf-known-name</i>	Known VRF name
node-id	management ip address of this node
<i>mgmt-ip-address</i>	IP address in CIDR format
peer-id	(Optional) management ip address of peer
<i>peer-ip-address</i>	(Optional) IP address in CIDR format

Command Mode

- /exec

clear fabric database host all vni

```
{ clear fabric database host { all | { vni <vni-id> } | { dot1q <vlan-id> } } [ re-sync ] } | { clear fabric database host vni <vni-id> re-apply } | { clear fabric database client uuid <uuid> }
```

Syntax Description

Syntax Description	
clear	Reset functions
fabric	
database	
host	Active Host to profile mapping
vni	Virtual Network Identifier
<i>vni-id</i>	
dot1q	Dot1Q Encapsulation
<i>vlan-id</i>	
re-apply	Download new config parameters and re-apply
re-sync	(Optional) Force to sync the host entry
all	Remove all entries
client	Auto-config client
uuid	Auto-config client UUID
<i>uuid</i>	UUID

Command Mode

- /exec

clear fabric database host statistics

clear fabric database host statistics

Syntax Description

Syntax Description

clear	Reset functions
-------	-----------------

fabric	Fabric
--------	--------

database	Fabric Database
----------	-----------------

host	Auto-configured Hosts
------	--------------------------

statistics	Statistics
------------	------------

Command Mode

- /exec

clear fabric database include-vrf

clear fabric database include-vrf <vrf-name>

Syntax Description

Syntax Description	
clear	Reset functions
fabric	
database	
include-vrf	Include VRF name
<i>vrf-name</i>	VRF name

Command Mode

- /exec

clear fabric database statistics

```
clear fabric database statistics [ type { network | profile | cabling | partition | bl-dci } [ server-proto ldap { ip
<ipaddr> | host <hostname> } [ port <portnum> ] [ vrf { <vrf-name> | <vrf-known-name> } ] ] ]
```

Syntax Description

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
ip		(Optional) IP address of server
<i>ipaddr</i>		(Optional) Enter IP address of server
host		(Optional) Hostname of server
<i>hostname</i>		(Optional) Enter hostname of server
port		(Optional) Port
<i>portnum</i>		(Optional) Enter port number
vrf		(Optional) vrf context
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name

Command Mode

- /exec

clear fabric database statistics type server-proto xmpp ip

```
clear fabric database statistics type { network | profile | cabling | partition | bl-dci } server-proto xmpp { ip
<ipaddr> | host <hostname> } [ port <portnum> ] [ vrf { <vrf-name> | <vrf-known-name> } ]
```

Syntax Description

Syntax Description		
clear		Reset functions
fabric		Fabric
database		Clear Fabric Database
statistics		Clear database statistics
type		Enter database type
network		Network Database
profile		Port or Switch Profile Database
cabling		Cable Management Database
partition		Partition Database
bl-dci		Border Leaf - DCI
server-proto		Enter database protocol
xmpp		Use XMPP
ip		IP address of server
<i>ipaddr</i>		Enter IP address of server
host		Hostname of server
<i>hostname</i>		Enter hostname of server
port		(Optional) Port
<i>portnum</i>		(Optional) Enter port number
vrf		(Optional) vrf context
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name

Command Mode

- /exec

clear fabric database statistics type server-proto radius group

clear fabric database statistics type { network | profile | cabling | partition | bl-dci } server-proto radius group <groupname>

Syntax Description

Syntax Description		
clear	Reset functions	
fabric	Fabric	
database	Clear Fabric Database	
statistics	Clear database statistics	
type	Enter database type	
network	Network Database	
profile	Port or Switch Profile Database	
cabling	Cable Management Database	
partition	Partition Database	
bl-dci	Border Leaf - DCI	
server-proto	Enter database protocol	
radius	Use RADIUS	
group	AAA group	
<i>groupname</i>	Enter AAA group name of servers	

Command Mode

- /exec

clear fc2

clear fc2 [counters]

Syntax Description

Syntax Description

clear Reset functions

fc2 Clear FC2 Port Counters

counters (Optional) Clear All FC2/FCoE Port Counters

Command Mode

- /exec

clear flow exporter

clear flow exporter [name] <exportername>

Syntax Description

Syntax Description		
clear		Reset functions
flow		NetFlow information
exporter		Clear NetFlow exporter statistics
name		(Optional) The name of the exporter
<i>exportername</i>		Specify an exporter

Command Mode

- /exec

clear flow monitor

clear flow monitor [name] <monitorname> [cache [force-export] | statistics]

Syntax Description

Syntax Description		
clear		Reset functions
flow		NetFlow information
monitor		Clear monitor cache and statistics
name	(Optional)	The name of the monitor
<i>monitorname</i>		Specify a monitor
cache	(Optional)	Clear only monitor cache contents
force-export	(Optional)	Force the cache entries to be exported
statistics	(Optional)	Clear only the monitor cache statistics

Command Mode

- /exec

clear forwarding adjacency mpls stats

```
clear forwarding [ ip | ipv4 ] adjacency mpls stats [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [
<aif> ] [ <anh> ] [ module <module> ]
```

Syntax Description

Syntax Description

clear	Reset functions
forwarding	forwarding
adjacency	display adjacency information
mpls	mpls adjacency information
stats	Clear adjacency statistics
vrf	(Optional) display info per VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
ip	(Optional) ipv4
ipv4	(Optional) ipv4
<i>aif</i>	(Optional) adjacency output interface
<i>anh</i>	(Optional) adjacency next hop
module	(Optional) slot
<i>module</i>	(Optional) slot number

Command Mode

- /exec

clear forwarding cumulative counter

```
clear forwarding cumulative counter [ all | v4_ucast_add | v4_ucast_del | v6_ucast_add | v6_ucast_del ] [
module <module> ]
```

Syntax Description

Syntax Description	
clear	clear
forwarding	forwarding information
cumulative	accumulated prefix add/delete count
counter	counter
all	(Optional) all
v4_ucast_add	(Optional) IPv4 unicast route add count
v4_ucast_del	(Optional) IPv4 unicast route delete count
v6_ucast_add	(Optional) IPv6 unicast route add count
v6_ucast_del	(Optional) IPv6 unicast route delete count
module	(Optional) slot
<i>module</i>	(Optional) slot number

Command Mode

- /exec

clear forwarding internal message counts

clear forwarding internal message counts [module <module>]

Syntax Description

Syntax Description	
clear	clear
forwarding	display fib information
internal	internal information
message	display internal message counts
counts	display internal message counts
module	(Optional) slot
<i>module</i>	(Optional) slot number

Command Mode

- /exec

clear forwarding internal unicast counts

```
clear forwarding internal unicast counts [ vdc { <vdc_id> | all } ] [ module <module> ] [ __readonly__
<err-str><count> ]
```

Syntax Description

Syntax Description

clear	
forwarding	display fib information
internal	internal information
unicast	unicast counters
counts	display counts
module	(Optional) slot
<i>module</i>	(Optional) slot number
vdc	(Optional) vdc id
<i>vdc_id</i>	(Optional) vdc id
all	(Optional) all VDCs active on the module
<i>__readonly__</i>	(Optional)

Command Mode

- /exec

clear forwarding ipv4 multicast counters

```
clear forwarding ipv4 multicast counters [ vrf { <vrf-name> | <vrf-known-name> | all } ] { [ group <gaddr>
[ source <saddr> ] ] | [ source <saddr> [ group <gaddr> ] ] } [ module <module> ]
```

Syntax Description

Syntax Description	
clear	
forwarding	fib information
vrf	(Optional) Specify VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
ipv4	Ipv4
multicast	Multicast IPv4 information
counters	
group	(Optional) Multicast IPv4 Group specific info
<i>gaddr</i>	(Optional) Multicast IPv4 Group Address
source	(Optional) Multicast IPv4 Source specific info
<i>saddr</i>	(Optional) Multicast IPv4 Source Address
module	(Optional) slot
<i>module</i>	(Optional) slot number

Command Mode

- /exec

clear forwarding ipv6 adjacency mpls stats

```
clear forwarding ipv6 adjacency mpls stats [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ <aif> ] [ <anh> ] [ module <module> ]
```

Syntax Description

Syntax Description		
clear		Reset functions
forwarding		forwarding
ipv6		ipv6
adjacency		adjacency information
mpls		mpls adjacency information
stats		Clear adjacency statistics
vrf		(Optional) display info per VRF
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name
vrf-all		(Optional) Display information for all VRFs
<i>aif</i>		(Optional) adjacency output interface
module		(Optional) slot
<i>module</i>		(Optional) slot number

Command Mode

- /exec

clear forwarding ipv6 multicast counters

```
clear forwarding ipv6 multicast counters [ vrf { <vrf-name> | <vrf-known-name> | all } ] { [ group <gaddr>
[ source <saddr> ] ] | [ source <saddr> [ group <gaddr> ] ] } [ module <module> ]
```

Syntax Description

Syntax Description	
clear	
forwarding	fib information
vrf	(Optional) Specify VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
ipv6	Ipv6
multicast	Multicast IPv6 information
counters	
group	(Optional) Multicast IPv6 Group specific info
source	(Optional) Multicast IPv6 Source specific info
module	(Optional) slot
<i>module</i>	(Optional) slot number

Command Mode

- /exec

clear forwarding l2mcast info statistics

clear forwarding l2mcast info statistics [module <num>]

Syntax Description

Syntax Description	
clear	Clear all entries
forwarding	Forwarding Information
l2mcast	Layer-2 multicast
info	L2mcast Internal Info
statistics	L2mcast Internal Info Statistics
module	(Optional) Slot
<i>num</i>	(Optional) Slot number

Command Mode

- /exec

clear forwarding l2vpn trace member-history

clear forwarding l2vpn trace member-history

Syntax Description

Syntax Description		
clear		Clear bintrace entries
forwarding		forwarding
l2vpn		L2VPN
trace		internal trace
member-history		member history

Command Mode

- /exec

clear forwarding mpls drop-stats

clear forwarding mpls drop-stats

Syntax Description

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

Syntax Description		
clear		Reset functions
forwarding		forwarding
mpls		mpls
stats		Clear Input Statistics
vrf		(Optional) display info per VRF
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known vrf name
vrf-all		(Optional) Display information for all VRFs
table		(Optional) display info per vpn-id
<i>table_id</i>		(Optional) table number
label-space		(Optional) label space
<i>label-space-id</i>		(Optional) label space id
label		(Optional) mpls labels
<i>label</i>		(Optional) mpls label value
<i>prefix</i>		(Optional) Labels for single exact match route
module		(Optional) slot
<i>module</i>		(Optional) slot number

Command Mode

- /exec

clear forwarding mpls trace adj-history

clear forwarding mpls trace adj-history [module <module>]

Syntax Description

Syntax Description	clear	Clear bintrace entries
	forwarding	forwarding
	mpls	mpls
	trace	internal trace
	adj-history	adjacency history
	module	(Optional) slot
	<i>module</i>	(Optional) slot number

Command Mode

- /exec

clear forwarding mpls trace ecmp-history

clear forwarding mpls trace ecmp-history [module <module>]

Syntax Description

Syntax Description		
clear		Clear bintrace entries
forwarding		forwarding
mpls		mpls
trace		internal trace
ecmp-history		ECMP history
module		(Optional) slot
<i>module</i>		(Optional) slot number

Command Mode

- /exec

clear forwarding mpls trace label-history

clear forwarding mpls trace label-history [module <module>]

Syntax Description

Syntax Description	
clear	Clear bintrace entries
forwarding	forwarding
mpls	mpls
trace	internal trace
label-history	label history
module	(Optional) slot
<i>module</i>	(Optional) slot number

Command Mode

- /exec

clear forwarding mpls trace te-history

clear forwarding mpls trace te-history [module <module>]

Syntax Description

Syntax Description		
clear		Clear bintrace entries
forwarding		forwarding
mpls		mpls
trace		internal trace
te-history		TE history
module		(Optional) slot
<i>module</i>		(Optional) slot number

Command Mode

- /exec

clear forwarding trace ecmp-history

clear forwarding trace ecmp-history [module <module>]

Syntax Description

Syntax Description		
clear		Clear bintrace entries
forwarding		forwarding
trace		internal trace
ecmp-history		ECMP history
module		(Optional) slot
<i>module</i>		(Optional) slot number

Command Mode

- /exec

clear forwarding trace mfib oif-history

clear forwarding trace mfib oif-history

Syntax Description

Syntax Description	clear	Clear bintrace entries
	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

Syntax Description		
clear		Clear bintrace entries
forwarding		forwarding
trace		internal trace
mfib		mfib entries
oiflist-history		oiflist history

Command Mode

- /exec

clear forwarding trace mfib oiv oif-history

clear forwarding trace mfib oiv oif-history

Syntax Description

Syntax Description

clear	Clear bintrace entries
-------	------------------------

forwarding	forwarding
------------	------------

trace	internal trace
-------	----------------

mfib	mfib entries
------	--------------

oiv	oiv entries
-----	-------------

oif-history	oif history
-------------	-------------

Command Mode

- /exec

clear forwarding trace mfib otv oiflist-history

clear forwarding trace mfib otv oiflist-history

Syntax Description

Syntax Description		
clear		Clear bintrace entries
forwarding		forwarding
trace		internal trace
mfib		mfib entries
otv		otv entries
oiflist-history		oiflist history

Command Mode

- /exec

clear forwarding trace mfib otv v4-route-history

clear forwarding trace mfib otv v4-route-history

Syntax Description

Syntax Description		
clear		Clear bintrace entries
forwarding		forwarding
trace		internal trace
mfib		mfib entries
otv		otv entries
v4-route-history		v4 route history

Command Mode

- /exec

clear forwarding trace mfib otv v6-route-history

clear forwarding trace mfib otv v6-route-history

Syntax Description

Syntax Description		
clear		Clear bintrace entries
forwarding		forwarding
trace		internal trace
mfib		mfib entries
otv		otv mfib entries
v6-route-history		v6 route history

Command Mode

- /exec

clear forwarding trace mfib platform oiflist-history

clear forwarding trace mfib platform oiflist-history

Syntax Description

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

Syntax Description		
clear		Clear bintrace entries
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

Syntax Description		
clear		Clear bintrace entries
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

Syntax Description		
clear		Clear bintrace entries
forwarding		forwarding
trace		internal trace
nve-ir-peer-history		NVE ir-peer history
module		(Optional) slot
<i>module</i>		(Optional) slot number

Command Mode

- /exec

clear forwarding trace nve-l3-vni-history

clear forwarding trace nve-l3-vni-history [module <module>]

Syntax Description

Syntax Description		
clear		Clear bintrace entries
forwarding		forwarding
trace		internal trace
nve-l3-vni-history		NVE L3 VNI history
module		(Optional) slot
<i>module</i>		(Optional) slot number

Command Mode

- /exec

clear forwarding trace nve-peer-history

clear forwarding trace nve-peer-history [module <module>]

Syntax Description

Syntax Description		
clear		Clear bintrace entries
forwarding		forwarding
trace		internal trace
nve-peer-history		NVE peer history
module		(Optional) slot
<i>module</i>		(Optional) slot number

Command Mode

- /exec

clear forwarding trace otv-adj-history

clear forwarding trace otv-adj-history [module <module>]

Syntax Description

Syntax Description		
clear		Clear bintrace entries
forwarding		forwarding
trace		internal trace
otv-adj-history		otv adj history
module		(Optional) slot
<i>module</i>		(Optional) slot number

Command Mode

- /exec

clear forwarding trace otv-vlan-history

clear forwarding trace otv-vlan-history [module <module>]

Syntax Description

Syntax Description		
clear		Clear bintrace entries
forwarding		forwarding
trace		internal trace
otv-vlan-history		otv vlan prefix history
module		(Optional) slot
<i>module</i>		(Optional) slot number

Command Mode

- /exec

clear forwarding trace v4-adj-history

clear forwarding trace v4-adj-history [module <module>]

Syntax Description

Syntax Description		
clear		Clear bintrace entries
forwarding		forwarding
trace		internal trace
v4-adj-history		V4 adjacency history
module		(Optional) slot
<i>module</i>		(Optional) slot number

Command Mode

- /exec

clear forwarding trace v4-pfx-history

clear forwarding trace v4-pfx-history [module <module>]

Syntax Description

Syntax Description		
clear		Clear bintrace entries
forwarding		forwarding
trace		internal trace
v4-pfx-history		V4 prefix history
module		(Optional) slot
<i>module</i>		(Optional) slot number

Command Mode

- /exec

clear forwarding trace v4-rnh-history

clear forwarding trace v4-rnh-history [module <module>]

Syntax Description

Syntax Description		
clear		Clear bintrace entries
forwarding		forwarding
trace		internal trace
v4-rnh-history		V4 rnh history
module		(Optional) slot
<i>module</i>		(Optional) slot number

Command Mode

- /exec

clear forwarding trace v6-adj-history

clear forwarding trace v6-adj-history [module <module>]

Syntax Description

Syntax Description		
clear		Clear bintrace entries
forwarding		forwarding
trace		internal trace
v6-adj-history		V6 adjacency history
module		(Optional) slot
<i>module</i>		(Optional) slot number

Command Mode

- /exec

clear forwarding trace v6-pfx-history

clear forwarding trace v6-pfx-history [module <module>]

Syntax Description

Syntax Description		
clear		Clear bintrace entries
forwarding		forwarding
trace		internal trace
v6-pfx-history		V6 prefix history
module		(Optional) slot
<i>module</i>		(Optional) slot number

Command Mode

- /exec

clear forwarding trace v6-rnh-history

clear forwarding trace v6-rnh-history [module <module>]

Syntax Description

Syntax Description		
clear		Clear bintrace entries
forwarding		forwarding
trace		internal trace
v6-rnh-history		V6 rnh history
module		(Optional) slot
<i>module</i>		(Optional) slot number

Command Mode

- /exec

clear forwarding trace vobj-history

clear forwarding trace vobj-history [module <module>]

Syntax Description

Syntax Description		
clear	Clear	bintrace entries
forwarding	forwarding	
trace	internal	trace
vobj-history	vobj	history
module	(Optional)	slot
<i>module</i>	(Optional)	slot number

Command Mode

- /exec

clear frame traffic

clear frame traffic

Syntax Description

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

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

Syntax Description		
clear	Reset functions	
hardware	Show hardware information	
flow	Netflow Module	
ip	Internet Protocol Version 4	
monitor	(Optional) Netflow Flow Monitor	
<i>mname</i>	(Optional) Netflow Flow Monitor Name	
profile	(Optional) Flow Profile	
<i>prof_id</i>	(Optional) Netflow Profile ID	
vlan	(Optional) Vlan commands	
<i>vlan_id</i>	(Optional) VLAN ID 1-4094	
interface	(Optional) Interface	
<i>interface</i>	(Optional) Interface Name	
instance	(Optional) Instance	
<i>inst</i>	(Optional) Earl Instance	
force-export	(Optional) Force to export data to collector	
module	(Optional) Line card module	
<i>num</i>	(Optional) slot number	

Command Mode

- /exec

clear hardware flow ipmac

```
clear hardware flow ipmac [ { { profile <prof_id> } | { vlan <vlan_id> } | { interface <interface> } } ] [
instance <inst> ] [ module <num> ]
```

Syntax Description

Syntax Description

clear	Reset functions
hardware	Show hardware information
flow	Netflow Module
ipmac	IPv4+MAC
profile	(Optional) Flow Profile
<i>prof_id</i>	(Optional) Netflow Profile ID
vlan	(Optional) Vlan commands
<i>vlan_id</i>	(Optional) VLAN ID 1-4094
interface	(Optional) Interface
<i>interface</i>	(Optional) Interface Name
instance	(Optional) Instance
<i>inst</i>	(Optional) Earl Instance
module	(Optional) Line card module
<i>num</i>	(Optional) slot number

Command Mode

- /exec

clear hardware flow ipv6

```
clear hardware flow ipv6 [ { { monitor <mname> } | { profile <prof_id> } | { vlan <vlan_id> } | { interface
<interface> } } ] [ instance <inst> ] [ force-export ] [ module <num> ]
```

Syntax Description

Syntax Description

clear	Reset functions
hardware	Show hardware information
flow	Netflow Module
ipv6	Internet Protocol Version 6
monitor	(Optional) Netflow Flow Monitor
<i>mname</i>	(Optional) Netflow Flow Monitor Name
profile	(Optional) Flow Profile
<i>prof_id</i>	(Optional) Netflow Profile ID
vlan	(Optional) Vlan commands
<i>vlan_id</i>	(Optional) VLAN ID 1-4094
interface	(Optional) Interface
<i>interface</i>	(Optional) Interface Name
instance	(Optional) Instance
<i>inst</i>	(Optional) Earl Instance
force-export	(Optional) Force to export data to collector
module	(Optional) Line card module
<i>num</i>	(Optional) slot number

Command Mode

- /exec

clear hardware flow l2

```
clear hardware flow l2 [ { { monitor <mname> } | { profile <prof_id> } | { vlan <vlan_id> } } ] [ instance
<inst> ] [ force-export ] [ module <num> ]
```

Syntax Description

Syntax Description

clear	Reset functions
hardware	Show hardware information
flow	Netflow Module
l2	Layer 2 Protocol
monitor	(Optional) Netflow Flow Monitor
<i>mname</i>	(Optional) Netflow Flow Monitor Name
profile	(Optional) Flow Profile
<i>prof_id</i>	(Optional) Netflow Profile ID
vlan	(Optional) Vlan commands
<i>vlan_id</i>	(Optional) VLAN ID 1-4094
instance	(Optional) Instance
<i>inst</i>	(Optional) Earl Instance
force-export	(Optional) Force to export data to collector
module	(Optional) Line card module
<i>num</i>	(Optional) slot number

Command Mode

- /exec

clear hardware flow mpls

```
clear hardware flow mpls [ { { monitor <mname> } | { profile <prof_id> } | { vlan <vlan_id> } | { interface
<interface> } } ] [ instance <inst> ] [ force-export ] [ module <num> ]
```

Syntax Description

Syntax Description		
clear	Reset functions	
hardware	Show hardware information	
flow	Netflow Module	
mpls	MPLS Protocol	
monitor	(Optional) Netflow Flow Monitor	
<i>mname</i>	(Optional) Netflow Flow Monitor Name	
profile	(Optional) Flow Profile	
<i>prof_id</i>	(Optional) Netflow Profile ID	
vlan	(Optional) Vlan commands	
<i>vlan_id</i>	(Optional) VLAN ID 1-4094	
interface	(Optional) Interface	
<i>interface</i>	(Optional) Interface Name	
instance	(Optional) Instance	
<i>inst</i>	(Optional) Earl Instance	
force-export	(Optional) Force to export data to collector	
module	(Optional) Line card module	
<i>num</i>	(Optional) slot number	

Command Mode

- /exec

clear hardware internal fabric interface-all asic counters

clear hardware internal fabric interface-all asic counters [module <module>]

Syntax Description

Syntax Description		
clear	Reset functions	
hardware	Show hardware information	
internal	Show hardware internal information	
fabric	clear fabric interface counters	
interface-all	Clear counters for fabric interfaces	
asic	Clear interface asic counters	
counters	Clear interface counters	
module	(Optional) Limit clear to single module	
<i>module</i>	(Optional) Slot/module number	

Command Mode

- /exec

clear hardware internal forwarding adjacency statistics default-route

clear hardware internal forwarding adjacency statistics default-route [module <module>]

Syntax Description

Syntax Description		
clear	Show running system information	
hardware	SHOW_HW_HELP	
internal	SHOW_HW_INT_HELP	
forwarding	Show hardware information for forwarding Asic	
adjacency	display adjacency utilization	
statistics	Show hardware statistics	
default-route	Show for adjacency of default route	
module	(Optional) slot	
<i>module</i>	(Optional) Slot/module number	

Command Mode

- /exec

clear hardware internal forwarding l3 counters

clear hardware internal forwarding l3 counters [module <module>]

Syntax Description

Syntax Description		
clear	clear	clear running system information
hardware	clear	hardware usage settings
internal	SHOW_HW_INT_HELP	
forwarding	clear	forwarding related settings
l3	Layer-3	
counters	clear	Layer-3 Counters
module	(Optional)	Slot/module
<i>module</i>	(Optional)	Slot/module number

Command Mode

- /exec

clear hardware internal interface-all asic counters

clear hardware internal interface-all asic counters [module <module>]

Syntax Description

Syntax Description	
clear	Reset functions
hardware	Show hardware information
internal	Show hardware internal information
interface-all	Clear counters for front panel interfaces
asic	Clear interface asic counters
counters	Clear interface counters
module	(Optional) Limit clear to single module
<i>module</i>	(Optional) Slot/module number

Command Mode

- /exec

clear hardware internal ns interrupts

clear hardware internal ns interrupts

Syntax Description

Syntax Description

clear Reset functions

hardware Clear hardware information

internal Clear hardware internal information

ns Northstar

interrupts Interrupts

Command Mode

- /exec

clear hardware ip verify

```
clear hardware [ forwarding ] ip verify { all | address { source { broadcast | multicast } | class-e | destination
{ zero } | identical | reserved } | checksum | protocol | fragment | length { minimum | consistent | maximum {
max-frag | udp | max-tcp } } | tcp { tiny-frag } | version } [ module <module> ]
```

Syntax Description

Syntax Description

clear	Reset functions
hardware	Show hardware information
forwarding	(Optional) Show hardware information for forwarding path
ip	IPv4 and IPv6 protocols
verify	IP packet validation checks in hardware
class-e	Class E IDS check
all	All IP packet validation checks
address	IPv4 and IPv6 Source and destination address validation
source	Check source address
broadcast	Source address is 255.255.255.255
multicast	Source address is 224.x.x.x
destination	Check destination address
zero	Destination address is 0.0.0.0
identical	Same IP SA and DA
reserved	Source address is 127.x.x.x
checksum	Verify IPv4 and IPv6 packet checksum
protocol	Verify IP protocol
fragment	Check IPv4 and IPv6 fragment with non-zero offset and DF bit active
length	Validate IPv4 packet header and payload length
minimum	Minimum IPv4 header length
consistent	Actual frame size is equal to or more than IPv4 length plus ethernet header
maximum	Check max fragment offset and payload length
max-frag	Fragment offset field value
udp	Maximum UDP length has to be less than IPv4 payload length

max-tcp	Maximum TCP length has to be less than IPv4 payload length
tcp	Validate TCP packet header
tiny-frag	Check TCP tiny fragment
version	Must be 4 for an ethertype of IPv4 (0x0800)
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number

Command Mode

- /exec

clear hardware rate-limiter

```
clear hardware rate-limiter { all | layer-3 { <l3-opts> | multicast <mcast-opts> } | layer-2 <l2-opts> | <opts>
| fl <fl-opts> } [ module <module> ]
```

Syntax Description

Syntax Description

clear	Reset functions
hardware	Show hardware information
rate-limiter	Clear Rate-Limiter statistics
all	Clear all Rate-Limiter statistics
layer-3	Layer-3 control and Routed packets
<i>l3-opts</i>	
multicast	Multicast data packets
<i>mcast-opts</i>	
layer-2	Layer-2 control and Bridged packets
<i>l2-opts</i>	
<i>opts</i>	
fl	Control packets from F1 modules to supervisor
<i>fl-opts</i>	
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number

Command Mode

- /exec

clear hsrp counters clear hsrp state-history

clear hsrp counters [<value>] | clear hsrp state-history [interface <interface-id>] [group <group-id>]

Syntax Description

Syntax Description		
clear		Reset functions
hsrp		HSRP commands
counters		Internal counters
<i>value</i>		(Optional) Counter to be cleared
state-history		Clear Groups' state history
interface		(Optional) Groups on this interface
<i>interface-id</i>		(Optional) Interface
group		(Optional) Group number
<i>group-id</i>		(Optional) Group Number

Command Mode

- /exec

clear icmpv6 cache

```
clear icmpv6 cache { { interface [ <intf> ] } }
```

Syntax Description

Syntax Description	clear	Reset functions
	icmpv6	ICMPv6 Commands
	cache	Clear icmpv6 cache
	interface	Clear icmpv6 interface information
	<i>intf</i>	(Optional) Interface name to clear

Command Mode

- /exec

clear install all failed-standby

clear install all failed-standby

Syntax Description

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

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

Syntax Description		
clear	Reset functions	
install	Install related show commands	
log-history	Patch installer historical logs	
all	Delete complete history log	
oldest	oldest	Delete the oldest <n> install log-history points
<i>i0</i>	Number of log-history points to delete	

Command Mode

- /exec

clear install status

clear install status

Syntax Description

Syntax	Description
clear	Reset functions
install	Clear the installer log
status	Clear the installer status log

Command Mode

- /exec

clear ip adjacency cache

```
clear ip adjacency cache { { interface [ <intf> ] } }
```

Syntax Description

Syntax Description		
clear	Reset functions	
ip	Clear IP commands	
adjacency	Configure Adjmgr	
cache	Clear adjacency cache	
interface	Clear adjacency interface information	
<i>intf</i>	(Optional) Interface name to clear	

Command Mode

- /exec

clear ip adjacency no-ufdm

```
clear ip adjacency [ vrf { <vrf-name> | <vrf-known-name> } ] { <ip-addr> | * } no-ufdm
```

Syntax Description

Syntax Description		
clear		Reset functions
ip		Clear IP commands
adjacency		Clear Adjacency
vrf		(Optional) Display per-VRF information
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name
<i>ip-addr</i>		IPV4 source address
*		Delete all adjacency in this context
no-ufdm		Create inconsistency in adjacency

Command Mode

- /exec

clear ip adjacency statistics

clear ip adjacency statistics

Syntax Description

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

Syntax Description		
clear		AMT clear commands
amt		AMT show commands
ip		Display IP information
tunnel		Display tunnel information
vrf		(Optional) Display information for VRF
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name
<i>address4</i>		(Optional) IP address of tunnel endpoint
<i>port</i>		(Optional) UDP port number of gateway

Command Mode

- /exec

clear ip arp

```
clear ip arp [ <interface> | <ip-address> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ force-delete ]
```

Syntax Description

Syntax Description		
clear		Reset functions
ip		Clear IP commands
arp		Clear ARP table and statistics
<i>interface</i>		(Optional) ARP interface
<i>ip-address</i>		(Optional) IP address
vrf		(Optional) Display per-VRF information
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name
all		(Optional) Clear ARP entries for all vrfs
force-delete		(Optional) Clear the entries from ARP table without refresh

Command Mode

- /exec

clear ip arp cache

```
clear ip arp cache { { interface [ <intf> ] } }
```

Syntax Description

Syntax Description		
clear	Reset functions	
ip	Clear IP commands	
arp	arp	
cache	Clear arp cache	
interface	Clear arp interface information	
<i>intf</i>	(Optional) Interface name to clear	

Command Mode

- /exec

clear ip arp controller-statistics

clear ip arp controller-statistics

Syntax Description

Syntax Description		
	clear	Reset functions
	ip	Display IP information
	arp	Display ARP table and statistics
	controller-statistics	Controller statistics

Command Mode

- /exec

clear ip arp event-history

clear ip arp event-history { packet | event | sync-event | ip-sync-event | control | ha | errors | lcache | lcache-errors | client-event | client-errors | snmp | cli | suppression-event | suppression-errors | controller-errors | dme-event | all } [dump-to-file]

Syntax Description

Syntax Description

clear	Reset functions
ip	Clear IP commands
arp	ARP events
event-history	Clear the event history buffers
packet	inst packet logs
event	Internal event logs
sync-event	CFS and MCECM related event logs
ip-sync-event	L3 over vpc related event logs
control	ARP control event logs
ha	HA and GR logs
errors	inst error logs
lcache	lcache logs
lcache-errors	lcache_error logs
client-event	Client_event logs
client-errors	Client_error logs
cli	clear cli logs
snmp	SNMP logs
suppression-event	ARP suppression event logs
suppression-errors	ARP suppression error logs
controller-errors	Controller MAC-IP route error logs
dme-event	ARP DME event logs
all	All event history buffers
dump-to-file	(Optional) Dump the Arp event history logs into the file

Command Mode

- /exec

clear ip arp inspection log

clear ip arp inspection log

Syntax Description

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

Syntax Description		
clear	Reset functions	
ip	Clear ip counters	
arp	Clear State of ARP features	
inspection	Clear State of ARP Inspection	
statistics	Statistics	
vlan	Vlan range	
<i>vlan-id</i>	VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19	

Command Mode

- /exec

clear ip arp static-arps-outside-subnet-count

clear ip arp static-arps-outside-subnet-count

Syntax Description

Syntax Description		
	clear	Reset functions
	ip	Clear IP commands
	arp	Display ARP table and statistics
	static-arps-outside-subnet-count	Clear static ARPs outside subnet count

Command Mode

- /exec

clear ip arp statistics

```
clear ip arp statistics [ <interface> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

Syntax Description		
clear		Reset functions
ip		Clear IP commands
arp		Clear ARP table and statistics
<i>interface</i>		(Optional) ARP interface
statistics		Clear ARP statistics
vrf		(Optional) Display per-VRF information
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name
all		(Optional) Clear ARP statistics for all vrfs

Command Mode

- /exec

clear ip arp suppression-cache statistics

clear ip arp suppression-cache statistics

Syntax Description

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

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

Syntax Description		
	clear	Reset functions
	ip	Clear IP commands
	arp	Display ARP table and statistics
	vpc-statistics	Clear ARP vPC statistics

Command Mode

- /exec

clear ip cache

```
clear ip cache { { interface [ <intf> ] } }
```

Syntax Description

Syntax Description

clear	Reset functions
-------	-----------------

ip	Clear IP commands
----	-------------------

cache	Clear ip cache
-------	----------------

interface	Clear ip interface information
-----------	--------------------------------

<i>intf</i>	(Optional) Interface name to clear
-------------	------------------------------------

Command Mode

- /exec

clear ip dhcp global statistics

clear ip dhcp global statistics

Syntax Description

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

Syntax Description		
clear		Reset functions
ip		Clear ip counters
dhcp		Clear State of DHCP features
relay		Clear State of DHCP relay stats
statistics		DHCP Relay statistics
interface		(Optional) input interface
<i>intf</i>		(Optional) interface
serverip		(Optional) Helper address
<i>ip-addr-val</i>		(Optional) IP address
use-vrf		(Optional) helper address VRF membership
<i>vrf-name</i>		(Optional) VRF name

Command Mode

- /exec

clear ip dhcp snooping binding

```
clear ip dhcp snooping binding [ { vlan <vlan-id> mac <mac-addr> ip <ip-addr> interface <interface-id> } |
```

Syntax Description

Syntax Description		
clear		Reset functions
ip		Clear ip counters
dhcp		Clear State of DHCP features
snooping		Clear State of DHCP Snooping
binding		DHCP snooping bindings
vlan		(Optional) VLAN
<i>vlan-id</i>		(Optional) VLAN id
mac		(Optional) MAC address
<i>mac-addr</i>		(Optional) MAC address
ip		(Optional) IP address
<i>ip-addr</i>		(Optional) IP address
interface		(Optional) interface
<i>interface-id</i>		(Optional) interface

Command Mode

- /exec

clear ip dhcp snooping statistics

```
clear ip dhcp snooping statistics [ { vlan <vlan-id> interface <intf> } ]
```

Syntax Description

Syntax Description	
clear	Reset functions
ip	Clear ip counters
dhcp	Clear State of DHCP features
snooping	Clear State of DHCP snooping stats
statistics	DHCP snooping statistics
vlan	(Optional) VLAN
<i>vlan-id</i>	(Optional) VLAN id
interface	(Optional) input interface
<i>intf</i>	(Optional) interface

Command Mode

- /exec

clear ip dns all config

clear ip dns all config

Syntax Description

Syntax Description

clear Clear entries

ip Configure ip feature

dns DNS related config

all All DNS related content

config Domain-name, name-server, domain-list, sortlist, options, results

Command Mode

- /exec

clear ip dns use-vrf config

clear ip dns use-vrf config

Syntax Description

Syntax Description	
clear	Clear entries
ip	Configure ip feature
dns	DNS related config
use-vrf	Config with keyword use-vrf
config	Domain-name, name-server, domain-list

Command Mode

- /exec

clear ip eigrp accounting

```
clear { ip | ipv6 } eigrp [ <eigrp-ptag> ] accounting [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

Syntax Description		
clear		Reset functions
ip		Clear IP commands
ipv6		Clear IPv6 commands
eigrp		EIGRP clear commands
vrf		(Optional) Display per-VRF information
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name
all		(Optional) Display information for all VRFs
<i>eigrp-ptag</i>		(Optional) Process tag
accounting		Clear IP-EIGRP accounting statistics

Command Mode

- /exec

clear ip eigrp event-history

```
clear { ip | ipv6 } eigrp [ <eigrp-ptag> ] event-history [ fsm | packet | rib | cli | all ]
```

Syntax Description

Syntax Description		
clear		Reset functions
ip		Clear IP commands
ipv6		Clear IPv6 commands
eigrp		EIGRP clear commands
<i>eigrp-ptag</i>	(Optional)	Process tag
event-history		Clear the event history buffers
fsm	(Optional)	FSM log of EIGRP
packet	(Optional)	Packet log of EIGRP
rib	(Optional)	RIB log of EIGRP
cli	(Optional)	EIGRP CLI related events
all	(Optional)	All event history buffers

Command Mode

- /exec

clear ip eigrp event-history bfd

```
clear ip eigrp [ <eigrp-ptag> ] event-history bfd
```

Syntax Description

Syntax Description		
	clear	Reset functions
	ip	Clear IP commands
	eigrp	EIGRP clear commands
	<i>eigrp-ptag</i>	(Optional) Process tag
	event-history	Clear the event history buffers
	bfd	Show bfd log of EIGRP

Command Mode

- /exec

clear ip eigrp events

```
clear { ip | ipv6 } eigrp [ <eigrp-ptag> ] events [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

Syntax Description	clear	Reset functions
	ip	Clear IP commands
	ipv6	Clear IPv6 commands
	eigrp	EIGRP clear commands
	vrf	(Optional) Display per-VRF information
	<i>vrf-name</i>	(Optional) VRF name
	<i>vrf-known-name</i>	(Optional) Known VRF name
	all	(Optional) Display information for all VRFs
	<i>eigrp-ptag</i>	(Optional) Process tag
	events	Clear IP-EIGRP event logs

Command Mode

- /exec

clear ip eigrp logging

```
clear { ip | ipv6 } eigrp [ <eigrp-ptag> ] logging [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

Syntax Description		
clear		Reset functions
ip		Clear IP commands
ipv6		Clear IPv6 commands
eigrp		EIGRP clear commands
vrf		(Optional) Display per-VRF information
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name
all		(Optional) Display information for all VRFs
<i>eigrp-ptag</i>		(Optional) Process tag
logging		Stop IP-EIGRP event logging

Command Mode

- /exec

clear ip eigrp redistribution

```
clear { ip | ipv6 } eigrp [ <eigrp-ptag> ] redistribution [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

Syntax Description		
clear		Reset functions
ip		Clear IP commands
ipv6		Clear IPv6 commands
eigrp		EIGRP clear commands
<i>eigrp-ptag</i>		(Optional) Process tag
vrf		(Optional) Display per-VRF information
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name
all		(Optional) Display information for all VRFs
redistribution		Clear EIGRP redistributed information

Command Mode

- /exec

clear ip eigrp route-map statistics redistribute

```
clear ip eigrp [ <eigrp-ptag> ] route-map statistics redistribute { bgp <as> | { eigrp | isis | ospf | rip } <tag> |
static | direct | amt | lisp } [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

Syntax Description

clear	Reset functions
ip	Clear IP commands
eigrp	EIGRP clear commands
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>eigrp-ptag</i>	(Optional) Process tag
route-map	Route-map related information
statistics	Route-map statistics
redistribute	Redistribute information from another routing protocol
bgp	Border Gateway Protocol (BGP)
<i>as</i>	Autonomous system number
isis	IS-IS Routing for IPv4
ospf	Open Shortest Path First (OSPF)
rip	Routing Information Protocol (RIP)
eigrp	Enhanced Interior Gateway Routing Protocol (EIGRP)
<i>tag</i>	Process tag
static	Static routes
direct	Directly connected
amt	AMT Anycast prefix
lisp	LISP EID-prefixes

Command Mode

- /exec

clear ip eigrp traffic

```
clear { ip | ipv6 } eigrp [ <eigrp-ptag> ] traffic [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

Syntax Description		
clear		Reset functions
ip		Clear IP commands
ipv6		Clear IPv6 commands
eigrp		EIGRP clear commands
vrf		(Optional) Display per-VRF information
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name
all		(Optional) Display information for all VRFs
<i>eigrp-ptag</i>		(Optional) Process tag
traffic		Clear IP-EIGRP traffic statistics

Command Mode

- /exec

clear ip ftm statistics

clear ip ftm statistics

Syntax Description

Syntax Description		
	clear	Reset functions
	ip	Clear IP commands
	ftm	FTM API
	statistics	Statistics

Command Mode

- /exec

clear ip igmp event-history

```
clear ip igmp event-history [ <igmp-event-hist-buf-name> ]
```

Syntax Description

Syntax Description		
	clear	Reset functions
	ip	Clear IP commands
	igmp	Clear IGMP related information
	event-history	Clear event-history buffers
	<i>igmp-event-hist-buf-name</i>	(Optional) Event hist buffer name

Command Mode

- /exec

clear ip igmp groups

```
clear ip igmp { groups | route } { <all> | <group-prefix> | <group> [ <source> ] } [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

Syntax Description		
clear		Reset functions
ip		Clear IP commands
igmp		Clear IGMP related information
groups		Route information
route		Route information
all		Clear all routes
<i>group-prefix</i>		Clear all routes within the Group prefix
<i>group</i>		Clear all routes matching the Group
<i>source</i>		(Optional) Clear a (S,G) route
vrf		(Optional) Clear information for particular VRF
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name
all		(Optional) Display information for all VRFs

Command Mode

- /exec

clear ip igmp interface statistics

clear ip igmp interface statistics [<interface>]

Syntax Description

Syntax Description

clear	Reset functions
ip	Clear IP commands
igmp	Clear IGMP statistics information
interface	Interface related information
statistics	Packet/internal counter statistics
<i>interface</i>	(Optional) Specific interface only

Command Mode

- /exec

clear ip igmp internal mrib-cache

```
clear ip igmp internal mrib-cache [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

Syntax Description		
clear		Reset functions
ip		Clear IP commands
igmp		Clear IGMP related information
internal		Commands for internal use
mrib-cache		clear this vrf mrib-cache and repopulate
vrf		(Optional) Display per-VRF information
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name
all		(Optional) Display information for all VRFs

Command Mode

- /exec

clear ip igmp snooping event-history

clear ip igmp snooping event-history [<igmp-snoop-event-hist-buf-name>]

Syntax Description

Syntax Description		
	clear	Reset functions
	ip	Clear IP commands
	igmp	Clear IGMP Snooping event hist buffers
	snooping	Clear IGMP Snooping event hist buffers
	event-history	Clear event history buffers
	<i>igmp-snoop-event-hist-buf-name</i>	(Optional) Event history buffer name

Command Mode

- /exec

clear ip igmp snooping explicit-tracking

```
clear ip igmp snooping explicit-tracking { vlan { <vlan> | all } | bridge-domain { <bdid> | all } }
```

Syntax Description

Syntax Description		
clear		Reset functions
ip		Clear IP commands
igmp		Clear IGMP Snooping information
snooping		Clear IGMP Snooping information
explicit-tracking		Clear Explicit Host tracking information
vlan		Clear explicit tracking information for VLAN
<i>vlan</i>		Specify VLAN
bridge-domain		Clear explicit tracking information for BD
<i>bdid</i>		Specify BD
all		Clear for all vlans/BD

Command Mode

- /exec

clear ip igmp snooping groups

```
clear ip igmp snooping groups { <all> | { <group-prefix> | <group> } [ <source> ] } [ interface <if-name> ]
{ vlan { <vlan-id> | all } }
```

Syntax Description

Syntax Description

clear	Reset functions
ip	Clear IP commands
igmp	Clear IGMP Snooping
snooping	Clear IGMP Snooping
groups	Clear snooped groups
all	Clear all groups
<i>group-prefix</i>	Group prefix to clear
<i>group</i>	Group address to clear
<i>source</i>	(Optional) Source address to clear
interface	(Optional) Specify interface to clear group state
<i>if-name</i>	(Optional) Interface name to clear
vlan	Clear information for VLAN/BD
<i>vlan-id</i>	Specify the VLAN/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

Syntax Description		
	clear	Reset functions
	ip	Clear IP commands
	igmp	Clear IGMP Snooping
	snooping	Clear IGMP Snooping
	proxy	Clear IGMP snooping proxy
	querier	Clear IGMP snooping proxy querier
	ports	Clear IGMP snooping proxy querier ports
	vlan	Clear for a specific vlan
	<i>vlan</i>	Specify the VLAN number
	bridge-domain	Clear for a specific BD
	<i>bdid</i>	Specify the BD number
	<i>if-name</i>	Interface name to clear
	purge	(Optional) Remove port from priority list

Command Mode

- /exec

clear ip igmp snooping report statistics

```
clear ip igmp snooping { report-policy | access-group } statistics [ vlan <vlan> ]
```

Syntax Description

Syntax Description		
clear		Reset functions
ip		Clear IP commands
igmp		Clear IGMP Snooping information
snooping		Clear IGMP Snooping information
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

Syntax Description		
clear		Reset functions
ip		Clear IP commands
igmp		Clear IGMP Snooping statistics information
snooping		Clear IGMP Snooping statistics information
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 igmp snooping vpc peer-link-exclude vlan

clear ip igmp snooping vpc peer-link-exclude vlan { <vlan-id> | all } [group <group-addr>]

Syntax Description

Syntax Description		
clear		Reset functions
ip		Clear IP commands
igmp		Clear IGMP Snooping information
snooping		Clear IGMP Snooping information
vpc		Clear vPC information
peer-link-exclude		Clear vPC peer-link Exclude state
vlan		Clear vpc peer-link Exclude state for VLAN/BD
<i>vlan-id</i>		Specify VLAN/BD
all		All VLAN/BDs
group		(Optional) Clear vpc peer-link Exclude state for VLAN/BD
<i>group-addr</i>		(Optional) Specify Group address

Command Mode

- /exec

clear ip interface statistics

clear ip interface statistics [<interface>]

Syntax Description

Syntax Description	
clear	Reset functions
ip	Clear IP commands
interface	Clear IP related interface information
statistics	Clear IP interface statistics
<i>interface</i>	(Optional) Clear IP statistics for interface

Command Mode

- /exec

clear ip internal event-history

```
clear ip internal event-history { errors | log | ipc | snmp | ha | ppf | cli | vrf-errors | arp-miss | static-rt | pkt-buffer
| all } [ dump-to-file ]
```

Syntax Description

Syntax Description		
clear	Reset functions	
ip	CLEAR_IP_HELP	
internal	Commands for internal use	
event-history	Clear various event logs of IP	
errors	Clear error logs of IP	
log	Clear syslog message of IP	
ipc	Clear ipc debug message of IP	
snmp	Clear snmp debug message of IP	
ha	Clear ha debug message of IP	
ppf	Clear ppf debug message of IP	
cli	Clear cli interaction debug messages for IP	
vrf-errors	Clear vrf related errors	
arp-miss	Clear arp miss debug message of IP	
static-rt	Clear ip static routing event buffer	
pkt-buffer	Clear ip packet buffer event history	
all	All event history buffers	
dump-to-file	(Optional) Dump the IP event history logs into the file	

Command Mode

- /exec

clear ip lisp data-cache

```
clear ip lisp data-cache [ <eid> ] [ vrf { <vrf-name> | <vrf-known-name> } ]
```

Syntax Description

Syntax Description		
clear		Reset functions
ip		Clear IP commands
lisp		LISP clear commands
data-cache		Clear EID-to-RLOC data cache mapping in this ITR
<i>eid</i>		(Optional) Clear mapping for IP destination EID
vrf		(Optional) Display per-VRF information
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name

Command Mode

- /exec

clear ip lisp map-cache

```
{ { clear ip lisp map-cache [ <eid-prefix> ] [ vrf { <vrf-name> | <vrf-known-name> } ] } | { clear ipv6 lisp
map-cache [ <eid-prefix6> ] [ vrf { <vrf-name> | <vrf-known-name> } ] } }
```

Syntax Description

Syntax Description

clear	Reset functions
ip	Clear IP commands
ipv6	Clear IPv6 commands
lisp	LISP clear commands
map-cache	Clear an EID-to-RLOC cache mapping in this ITR
vrf	(Optional) Clear entry for particular vrf
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>eid-prefix</i>	(Optional) Clear entry associated with IP EID-prefix

Command Mode

- /exec

clear ip lisp statistics

```
clear ip lisp statistics [ vrf { <vrf-name> | <vrf-known-name> } ]
```

Syntax Description

Syntax Description		
clear		Reset functions
ip		Clear IP commands
lisp		LISP clear commands
statistics		Clear global LISP statistics
vrf		(Optional) Clear statistics for vrf
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name

Command Mode

- /exec

clear ip mbgp dampening

```
{ { clear ip mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] dampening
[ <ip-prefix> | <ip-addr> [ <ip-mask> ] ] } | { clear ip bgp [ vrf { <vrf-name> | <vrf-known-name> |
ALL_VRFS_012345678901234 } ] dampening [ <ip-prefix> | <ip-addr> [ <ip-mask> ] ] } | { clear ip bgp [
vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] ipv4 { unicast | multicast }
dampening [ <ip-prefix> | <ip-addr> [ <ip-mask> ] ] } | { clear ip bgp [ vrf { <vrf-name> | <vrf-known-name>
| ALL_VRFS_012345678901234 } ] all dampening } | { clear bgp [ vrf { <vrf-name> | <vrf-known-name> |
ALL_VRFS_012345678901234 } ] { ipv4 { unicast | multicast } | vpnv4 unicast } dampening [ <ip-prefix>
| <ip-addr> [ <ip-mask> ] ] } | { clear bgp [ vrf { <vrf-name> | <vrf-known-name> |
ALL_VRFS_012345678901234 } ] { ipv6 { unicast | multicast } | vpnv6 unicast } dampening [ <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

Syntax Description

clear	Reset functions
ip	Clear IP commands
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
bgp	Clear BGP sessions
mbgp	Clear MBGP sessions
dampening	Clear route flap dampening information
<i>ip-prefix</i>	(Optional) Clear route flap dampening for prefix
<i>ip-addr</i>	(Optional) Clear route flap dampening for one network
<i>ip-mask</i>	(Optional) Network mask
ipv4	Clear IPv4 address-family
ipv6	Clear IPv6 address-family
vpnv4	Clear VPNv4 address-family
vpnv6	Clear VPNv6 address-family
unicast	Clear unicast address-family
multicast	Clear multicast address-family
all	Clear all address-families

Command Mode

- /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

Syntax Description

clear	Reset functions
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
ip	Clear IP commands
bgp	Clear BGP sessions
mbgp	Clear MBGP sessions
flap-statistics	Clear flap statistics
<i>ip-prefix</i>	(Optional) Clear flap statistics for one prefix
<i>ip-addr</i>	(Optional) Clear flap statistics for one network
<i>ip-mask</i>	(Optional) Network mask
ipv4	Clear IPv4 address-family
ipv6	Clear IPv6 address-family
vpnv4	Clear VPNv4 address-family
vpnv6	Clear VPNv6 address-family
unicast	Clear unicast address-family
multicast	Clear multicast address-family
all	Clear all address-families
regexp	(Optional) Clear flap statistics for routes matching the regular expression

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 | 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

Syntax Description

clear	Reset functions
ip	Clear IP commands
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
bgp	Clear BGP sessions
mbgp	Clear MBGP sessions
<i>neighbor-id</i>	IP address of the neighbor to clear
<i>prefix-id</i>	Clear all neighbors matching the prefix
*	Clear all neighbors (Should be a * character)
<i>asn</i>	Clear all neighbors in an AS
peer-template	Clear all neighbors in a peer-template
<i>peer-template-name</i>	Peer-template name
soft	(Optional) Soft reconfiguration
in	(Optional) Clear soft reconfiguration inbound
out	(Optional) Clear soft reconfiguration outbound
ipv4	(Optional) Clear IPv4 address-family
ipv6	Clear IPv6 address-family
vpnv4	(Optional) Clear VPNv4 address-family

vpn6	(Optional) Clear VPNv6 address-family
unicast	(Optional) Clear unicast address-family
multicast	(Optional) Clear multicast address-family
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
labeled-unicast	Display BGP information for labeled-unicast address family
all	(Optional) Clear all address-families
dampened-paths	(Optional) Clear dampened paths for neighbor
flap-statistics	(Optional) Clear flap statistics for neighbor
no-notify	(Optional) Clear without sending notification

Command Mode

- /exec

clear ip msdp event-history

clear ip msdp event-history [<msdp-event-hist-buf-name>]

Syntax Description

Syntax Description

clear	Reset functions
ip	Clear IP commands
msdp	MSDP global configuration commands
event-history	Clear the event-history buffer instances
<i>msdp-event-hist-buf-name</i>	(Optional) Specify the particular instance of the event-history buffer

Command Mode

- /exec

clear ip msdp peer

```
clear ip msdp peer <peer-address> [ vrf { <vrf-name> | <vrf-known-name> } ]
```

Syntax Description

Syntax Description		
clear		Reset functions
ip		Clear IP commands
msdp		MSDP clear commands
peer		Clear MSDP peer connection
<i>peer-address</i>		IP address of MSDP peer
vrf		(Optional) Clear information for particular VRF
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name

Command Mode

- /exec

clear ip msdp policy statistics sa-policy in

```
clear ip msdp policy statistics sa-policy <peer-address> { in | out } [ vrf { <vrf-name> | <vrf-known-name>
} ]
```

Syntax Description

Syntax Description

clear	Reset functions
ip	Clear IP commands
msdp	MSDP global configuration commands
policy	Policy information
statistics	Policy statistics
sa-policy	Configured SA policy for MSDP peer
<i>peer-address</i>	IP address of MSDP peer for SA policy
in	Input policy
out	Output policy
vrf	(Optional) Clear information for particular VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

Command Mode

- /exec

clear ip msdp sa

```
clear ip msdp { sa-cache | route } { <all> | <group-prefix> | <group> [ <source> ] } [ vrf { <vrf-name> |
<vrf-known-name> | all } ]
```

Syntax Description

Syntax Description		
clear		Reset functions
ip		Clear IP commands
msdp		MSDP clear commands
sa-cache		Clear contents of SA cache
route		Clear contents of SA cache
all		Clear all routes
<i>group-prefix</i>		Clear all routes within the Group prefix
<i>group</i>		Clear all routes matching the Group
<i>source</i>		(Optional) Clear a (S,G) route
vrf		(Optional) Clear information for particular VRF
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name
all		(Optional) Display information for all VRFs

Command Mode

- /exec

clear ip msdp statistics

```
clear ip msdp statistics [ <peer-address> ] [ vrf { <vrf-name> | <vrf-known-name> } ]
```

Syntax Description

Syntax Description		
clear		Reset functions
ip		Clear IP commands
msdp		MSDP clear commands
statistics		Clear statistics for peers
<i>peer-address</i>		(Optional) IP address of MSDP peer
vrf		(Optional) Clear information for particular VRF
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name

Command Mode

- /exec

clear ip nat translation

```
clear ip nat translation { all | inside <insideGlobalIP> <insideLocalIP> [ outside <outsideLocalIP>
<outsideGlobalIP> ] | outside <outsideLocalIP> <outsideGlobalIP> }
```

Syntax Description

Syntax Description		
clear		Reset functions
ip		Clear ip counters
nat		Clear NAT
translation		Clear dynamic translation
all		Delete all dynamic translations
inside		Inside addresses
<i>insideGlobalIP</i>		Inside global IP address
<i>insideLocalIP</i>		Inside local IP address
outside		(Optional) Outside addresses
<i>outsideLocalIP</i>		(Optional) Outside local IP address
<i>outsideGlobalIP</i>		(Optional) Outside global IP address

Command Mode

- /exec

clear ip ospf database

```
clear ip ospf [ <tag> ] database
```

Syntax Description

Syntax Description	
clear	Reset functions
ip	Clear IP commands
ospf	Clear OSPF tables
<i>tag</i>	(Optional) Process tag
database	Clear the LSDB and all neighbors

Command Mode

- /exec

clear ip ospf event-history

clear ip ospf [<tag>] event-history [adjacency | event | ha | flooding | lsa | spf | redistribution | cli | ldp | te | rib | hello | spf-trigger | objstore | all]

Syntax Description

Syntax Description		
clear		Reset functions
ip		IP events
ospf		Debug OSPF events
<i>tag</i>		(Optional) Process tag
event-history		Clear the event history buffers
adjacency		(Optional) Adjacency formation logs
event		(Optional) Internal event logs
ha		(Optional) HA and GR logs
flooding		(Optional) LSA flooding logs
lsa		(Optional) LSA generation and database logs
spf		(Optional) SPF calculation logs
redistribution		(Optional) Redistribution logs
cli		(Optional) Cli logs
ldp		(Optional) LDP related logs
te		(Optional) MPLS TE related logs
rib		(Optional) RIB related logs
hello		(Optional) HELLO related logs
spf-trigger		(Optional) SPF TRIGGER related logs
objstore		(Optional) DME OBJSTORE related logs
all		(Optional) All event history buffers

Command Mode

- /exec

clear ip ospf event-history detail

clear ip ospf [<tag>] event-history detail

Syntax Description

Syntax Description		
clear		Reset functions
ip		IP events
ospf		Debug OSPF events
<i>tag</i>		(Optional) Process tag
event-history		Clear the event history buffer
detail		Detailed event history buffer

Command Mode

- /exec

clear ip ospf interface

```
clear ip ospf [ <tag> ] interface { * | <interface> }
```

Syntax Description

Syntax Description	
clear	Reset functions
ip	Clear IP commands
ospf	Clear OSPF tables
tag	(Optional) Process tag
interface	Clear one or more interfaces
*	Clear all interfaces
interface	Interface to clear

Command Mode

- /exec

clear ip ospf internal interface-cache

```
clear ip ospf [ <tag> ] internal interface-cache [ <interface> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

Syntax Description

clear	Reset functions
ip	IP events
ospf	Debug OSPF events
<i>tag</i>	(Optional) Process tag
internal	Commands for internal use
interface-cache	Interface-cache
<i>interface</i>	(Optional) Interface to clear the interface cache on
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs

Command Mode

- /exec

clear ip ospf neighbor

```
clear ip ospf [ <tag> ] neighbor { { * | <neighborid> } [ vrf { <vrf-name> | <vrf-known-name> | all } ] } |
{ <interface> } }
```

Syntax Description

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 policy statistics

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

Syntax Description

Syntax Description

clear	Reset functions
ip	Clear IP commands
ospf	Clear OSPF tables
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
policy	Clear Policy related information
statistics	Display Route Filter statistics
redistribute	Statistics for redistribution
isis	ISO Intermediate-to-Intermediate (IS-IS)
bgp	Border Gateway Protocol (BGP)
<i>as</i>	Autonomous system number
ospf	Open Shortest Path First (OSPFv2)
eigrp	Enhanced Interior Gateway Protocol (EIGRP)
rip	Routing Information Protocol (RIP)
static	Static
direct	Directly connected
amt	AMT anycast prefix
lisp	LISP EID-prefixes
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
filter-list	Filter prefixes between OSPF areas

in	Filter networks sent to this area
out	Filter networks sent from this area
<i>tag</i>	

Command Mode

- /exec

clear ip ospf redistribution

```
clear ip ospf [ <tag> ] redistribution [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

Syntax Description		
clear		Reset functions
ip		Clear IP commands
ospf		Clear OSPF tables
<i>tag</i>		(Optional) Process tag
vrf		(Optional) Display per-VRF information
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name
all		(Optional) Display information for all VRFs
redistribution		Clear OSPF route redistribution

Command Mode

- /exec

clear ip ospf statistics

```
clear ip ospf [ <tag> ] statistics [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

Syntax Description		
clear		Reset functions
ip		Clear IP commands
ospf		Clear OSPF tables
<i>tag</i>		(Optional) Process tag
vrf		(Optional) Display per-VRF information
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name
all		(Optional) Display information for all VRFs
statistics		Clear event counters

Command Mode

- /exec

clear ip ospf traffic

```
clear ip ospf [ <tag> ] traffic [ <interface> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

Syntax Description		
clear		Reset functions
ip		Clear IP commands
ospf		Clear OSPF tables
<i>tag</i>		(Optional) Process tag
vrf		(Optional) Display per-VRF information
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name
all		(Optional) Display information for all VRFs
traffic		Clear packet counters
<i>interface</i>		(Optional) Interface to clear all traffic on

Command Mode

- /exec

clear ip pim event-history

clear ip pim event-history [<pim-event-hist-buf-name>]

Syntax Description

Syntax Description		
	clear	Reset functions
	ip	Clear IP commands
	pim	PIM clear commands
	event-history	Clear event history buffers
	<i>pim-event-hist-buf-name</i>	(Optional) Event history buffer instance

Command Mode

- /exec

clear ip pim interface statistics

clear ip pim interface statistics [<interface> | vrf { <vrf-name> | <vrf-known-name> | all }]

Syntax Description

Syntax Description		
clear		Reset functions
ip		Clear IP commands
pim		Clear PIM information
interface		Interface related information
statistics		Packet interface counter statistics
<i>interface</i>		(Optional) Interface name to clear
vrf		(Optional) Display per-VRF information
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name
all		(Optional) Display information for all VRFs

Command Mode

- /exec

clear ip pim policy statistics

```
clear ip pim policy statistics { register-policy | bsr { bsr-policy | rp-candidate-policy } | auto-rp {
rp-candidate-policy | mapping-agent-policy } } [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

Syntax Description		
clear		Reset functions
ip		Clear IP commands
pim		PIM global configuration commands
policy		Policy related information
statistics		Policy statistics
register-policy		Show statistics for register-policy
bsr		Bootstrap protocol RP-distribution policy
bsr-policy		Statistics for BSR messages
rp-candidate-policy		Statistics for RP candidate messages
auto-rp		Statistics for auto-rp messages
rp-candidate-policy		Statistics for RP candidate messages
mapping-agent-policy		Statistics for mapping agent messages
vrf		(Optional) Display per-VRF information
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name
all		(Optional) Display information for all VRFs

Command Mode

- /exec

clear ip pim policy statistics jp

clear ip pim policy statistics { jp-policy | neighbor-policy } <interface>

Syntax Description

Syntax Description		
clear		Reset functions
ip		Clear IP commands
pim		PIM global configuration commands
policy		Policy related information
statistics		Policy statistics
jp-policy		Statistics for jp-policy
neighbor-policy		Statistics for neighbor-policy
<i>interface</i>		Interface

Command Mode

- /exec

clear ip pim route

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

Syntax Description

Syntax Description

clear	Reset functions
ip	Clear IP commands
pim	PIM clear commands
route	Route information
all	Clear all routes
<i>group-prefix</i>	Clear all routes within the Group prefix
<i>group</i>	Clear all routes matching the Group
<i>source</i>	(Optional) Clear a (S,G) route
vrf	(Optional) Clear information for particular VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs

Command Mode

- /exec

clear ip pim statistics

```
clear ip pim statistics [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

Syntax Description		
clear		Reset functions
ip		Clear IP commands
pim		Clear PIM information
statistics		Packet global counter statistics
vrf		(Optional) Display per-VRF information
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name
all		(Optional) Display information for all VRFs

Command Mode

- /exec

clear ip rip policy statistics redistribute bgp

```
{ { clear ip rip policy statistics redistribute bgp <as> } | { clear ip rip policy statistics redistribute eigrp <tag>
} | { clear ip rip policy statistics redistribute isis <tag> } | { clear ip rip policy statistics redistribute rip <tag>
} | { clear ip rip policy statistics redistribute ospf <tag> } | { clear ip rip policy statistics redistribute direct }
| { clear ip rip policy statistics redistribute static } } [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

Syntax Description

clear	Reset functions
ip	Clear IP commands
rip	Routing Information Protocol (RIP)
policy	Policy related information
statistics	Policy statistics
redistribute	RIP redistribute routes from other routing protocol
bgp	Border Gateway Protocol (BGP)
eigrp	Enhanced Interior Gateway Routing Protocol (EIGRP)
<i>as</i>	Autonomous system number
isis	Intermediate-to-intermediate (ISIS)
ospf	Open Shortest Path First (OSPFv2)
<i>tag</i>	Process tag
static	Static routes
direct	Directly connected routes
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs

Command Mode

- /exec

clear ip rip statistics

```
clear { ipv6 | ip } rip statistics [ * | <interface> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

Syntax Description		
clear		Reset functions
ipv6		Clear IPv6 commands
ip		Clear IP commands
rip		Routing Information Protocol (RIP)
statistics		Clear RIP statistics
*		(Optional) RIP statistics for all interfaces
<i>interface</i>		(Optional) RIP interface
vrf		(Optional) Display per-VRF information
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name
all		(Optional) Display information for all VRFs

Command Mode

- /exec

clear ip rsvp authentication

clear ip rsvp authentication [<nbr-addr>]

Syntax Description

Syntax Description		
clear		Reset functions
ip		Clear IP commands
rsvp		Clear RSVP information
authentication		Clear security associations
<i>nbr-addr</i>		(Optional) RSVP Neighbor address

Command Mode

- /exec

clear ip rsvp counters

clear ip rsvp counters [teardown | authentication | all]

Syntax Description

Syntax Description		
clear		Reset functions
ip		Clear IP commands
rsvp		Clear RSVP information
counters		RSVP counters
teardown	(Optional)	Clear signaling tear information
authentication	(Optional)	Display RSVP Security Association information
all	(Optional)	Clear all information

Command Mode

- /exec

clear ip rsvp hello instance counters

clear ip rsvp hello instance counters

Syntax Description

Syntax Description	
clear	Reset functions
ip	Clear IP commands
rsvp	Clear RSVP information
hello	RSVP Hello configuration commands
instance	Clear Hello instance information
counters	Clear RSVP statistics

Command Mode

- /exec

clear ip rsvp internal counters

clear ip rsvp internal counters [error | client | mts | pss | refresh | reliable | batch-history]

Syntax Description

Syntax Description

clear	Reset functions
ip	Clear IP commands
rsvp	Clear RSVP information
internal	Clear RSVP internal information
counters	Clear RSVP statistics
error	(Optional) Clear signaling error information
client	(Optional) Clear client information
mts	(Optional) Clear message service information
pss	(Optional) Clear persistent store information
refresh	(Optional) Clear refresh information
reliable	(Optional) Clear reliable message information
batch-history	(Optional) Clear batching history

Command Mode

- /exec

clear ip rsvp reservation

```
clear ip rsvp reservation { [ destination <dest> ] [ source <src> ] [ ip-protocol <proto> ] [ dst-port <dport> ]
[ src-port <sport> ] | <all> }
```

Syntax Description

Syntax Description

clear	Reset functions
ip	Clear IP commands
rsvp	Clear RSVP information
reservation	Clear RSVP reservation state
destination	(Optional) Clear based on destination address
<i>dest</i>	(Optional) Destination address
source	(Optional) Clear based on a source address
<i>src</i>	(Optional) Source address
ip-protocol	(Optional) Clear based on IP protocol
<i>proto</i>	(Optional) IP protocol value
dst-port	(Optional) Clear based on destination port
<i>dport</i>	(Optional) Destination Port value
src-port	(Optional) Clear based on a source port
<i>sport</i>	(Optional) Source port value
all	Clear all state

Command Mode

- /exec

clear ip rsvp sender

```
clear ip rsvp sender { [ destination <dest> ] [ source <src> ] [ ip-protocol <proto> ] [ dst-port <dport> ] [
src-port <sport> ] | <all> }
```

Syntax Description

Syntax Description

clear	Reset functions
ip	Clear IP commands
rsvp	Clear RSVP information
sender	Clear RSVP sender state
destination	(Optional) Clear based on destination address
<i>dest</i>	(Optional) Destination address
source	(Optional) Clear based on a source address
<i>src</i>	(Optional) Source address
ip-protocol	(Optional) Clear based on IP protocol
<i>proto</i>	(Optional) IP protocol value
dst-port	(Optional) Clear based on destination port
<i>dport</i>	(Optional) Destination Port value
src-port	(Optional) Clear based on a source port
<i>sport</i>	(Optional) Source port value
all	Clear all state

Command Mode

- /exec

clear ip rsvp signalling

clear ip rsvp signalling [rate-limit | refresh-reduction]

Syntax Description

Syntax Description		
clear		Reset functions
ip		Clear IP commands
rsvp		Clear RSVP information
signalling		Configure RSVP Signalling information
rate-limit	(Optional)	Clear rate-limit counters
refresh-reduction	(Optional)	Clear refresh-reduction counters

Command Mode

- /exec

clear ip stats

clear ip stats

Syntax Description

Syntax Description

clear Reset functions

ip Clear IP commands

stats Clear IP internal stats

Command Mode

- /exec

clear ip traffic

```
clear ip traffic [ vrf { <vrf-name> | <vrf-known-name> } ]
```

Syntax Description

Syntax Description		
clear		Reset functions
ip		Clear IP commands
traffic		Clear IP global statistics
vrf		(Optional) Display per-VRF information
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name

Command Mode

- /exec

clear ip vip

```
clear ip vip { uuid <uuid> | <vip-addr> vrf { <vrf-name> | <vrf-known-name> } }
```

Syntax Description

Syntax Description		
clear		Reset functions
ip		Clear IP commands
vip		Clear virtual ip address
uuid		UUID of client
<i>uuid</i>		UUID of client whose vips needs to be cleared
<i>vip-addr</i>		VIP in format A.B.C.D
vrf		Display per-VRF information
<i>vrf-name</i>		VRF name
<i>vrf-known-name</i>		Known VRF name

Command Mode

- /exec

clear ipv6 adjacency no-ufdm

```
clear ipv6 adjacency [ vrf { <vrf-name> | <vrf-known-name> } ] { <ipv6-addr> | * } no-ufdm
```

Syntax Description

Syntax Description		
clear		Reset functions
ipv6		Clear IPv6 commands
adjacency		Clear Adjacency
vrf		(Optional) Display per-VRF information
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name
*		Delete all adjacency in this context
no-ufdm		Create inconsistency in adjacency

Command Mode

- /exec

clear ipv6 adjacency statistics

clear ipv6 adjacency statistics

Syntax Description

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

Syntax Description		
clear		AMT clear commands
amt		AMT show commands
ipv6		Display IP information
tunnel		Display tunnel information
vrf		(Optional) Display information for VRF
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name
<i>port</i>		(Optional) UDP port number of gateway

Command Mode

- /exec

clear ipv6 cache

```
clear ipv6 cache { { interface [ <intf> ] } }
```

Syntax Description

Syntax Description

clear	Reset functions
-------	-----------------

ipv6	Clear IPv6 commands
------	---------------------

cache	Clear ipv6 cache
-------	------------------

interface	Clear ipv6 interface information
-----------	----------------------------------

<i>intf</i>	(Optional) Interface name to clear
-------------	------------------------------------

Command Mode

- /exec

clear ipv6 dhcp 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

Syntax Description		
clear		Reset functions
ipv6		IPv6
dhcp		Clear State of DHCPv6 features
relay		Clear State of DHCPv6 relay stats
statistics		DHCPv6 Relay statistics
interface		(Optional) input interface
<i>intf</i>		(Optional) interface
server-ip		(Optional) Server address
use-vrf		(Optional) Server address VRF membership
<i>vrf-name</i>		(Optional) VRF name
interface		(Optional) Destination interface for the server address
<i>dest-interface</i>		(Optional) Destination interface

Command Mode

- /exec

clear ipv6 eigrp route-map statistics redistribute

```
clear ipv6 eigrp [ <eigrp-ptag> ] route-map statistics redistribute { bgp <as> | { eigrp | isis | ospfv3 | rip }
<tag> | static | direct | amt | lisp } [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

Syntax Description		
clear		Reset functions
ipv6		Clear IPv6 commands
eigrp		EIGRP clear commands
vrf		(Optional) Display per-VRF information
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name
all		(Optional) Display information for all VRFs
<i>eigrp-ptag</i>		(Optional) Process tag
route-map		Route-map related information
statistics		Route-map statistics
redistribute		Redistribute information from another routing protocol
bgp		Border Gateway Protocol (BGP)
<i>as</i>		Autonomous system number
isis		IS-IS Routing for IPv4
ospfv3		Open Shortest Path First (OSPF) V3
rip		Routing Information Protocol (RIP)
eigrp		Enhanced Interior Gateway Routing Protocol (EIGRP)
<i>tag</i>		Process tag
static		Static routes
direct		Directly connected
amt		AMT Anycast prefix
lisp		LISP EID-prefixes

Command Mode

- /exec

clear ipv6 icmp

clear ipv6 { icmp | nd } { interface statistics [<interface>] | global statistics }

Syntax Description

Syntax Description

clear	Reset functions
ipv6	Clear IPv6 commands
icmp	Clear ICMPv6 information
nd	Clear Neighbor Discovery interface information
interface	Clear ICMPv6 related interface information
statistics	Clear ICMPv6 interface statistics
global	Clear ICMPv6 global statistics
<i>interface</i>	(Optional) Interface to clear statistics for

Command Mode

- /exec

clear ipv6 icmp internal event-history

```
clear ipv6 icmp internal event-history { errors | icmpv6-internal | nd | mld { debugs | events } | ha | sync-event
| ipv6-sync-event | vrf | cli | all } [ dump-to-file ]
```

Syntax Description

Syntax Description

clear	Reset functions
ipv6	Clear IPv6 commands
icmp	Clear ICMPv6 information
internal	Commands for internal use
event-history	various event logs of ICMPV6
errors	error logs ICMPV6
icmpv6-internal	internal debug events of ICMPV6
nd	ICMPV6 ND debugs
mld	ICMPV6 MLD Information
events	ICMPV6 MLD non-periodic events
debugs	ICMPV6 MLD debug messages
ha	ICMPV6 debugs for HA events
sync-event	ICMPV6 debugs for CFS and MCECM related events
ipv6-sync-event	ICMPV6 debugs for CFS and MCECM related events for L3
vrf	ICMPV6 VRF related events
cli	ICMPV6 CLI related events
all	All event history buffers
dump-to-file	(Optional) Dump the ICMPV6 event history logs into the file

Command Mode

- /exec

clear ipv6 icmp vpc-statistics

clear ipv6 icmp vpc-statistics

Syntax Description

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

Syntax Description	
clear	Reset functions
ipv6	Clear IPv6 commands
interface	Clear IPv6 related interface information
statistics	Clear IPv6 interface statistics
<i>interface</i>	(Optional) Interface to clear statistics for

Command Mode

- /exec

clear ipv6 internal event-history

clear ipv6 internal event-history { errors | log | ipc | snmp | ha | sdb | bfd | all } [dump-to-file]

Syntax Description

Syntax Description

clear	Reset functions
ipv6	Clear IPv6 commands
internal	Commands for internal use
event-history	Clear various event logs of IPV6
errors	Clear error logs of IPV6
log	Clear syslog message of IPV6
ipc	Clear ipc debug message of IPV6
snmp	Clear snmp debug message of IPV6
ha	Clear ha debug message of IPV6
sdb	Clear sdb debug message buffer size of IPV6
bfd	clear bfd debug messages for IPV6
all	All event history buffers
dump-to-file	(Optional) Dump the IPv6 event history logs into the file

Command Mode

- /exec

clear ipv6 lisp data-cache

```
clear ipv6 lisp data-cache [ <eid6> ] [ vrf { <vrf-name> | <vrf-known-name> } ]
```

Syntax Description

Syntax Description		
clear		Reset functions
ipv6		Clear IPv6 commands
lisp		LISP clear commands
data-cache		Clear EID-to-RLOC data cache mapping in this ITR
<i>eid6</i>		(Optional) Clear mapping for IPv6 destination EID
vrf		(Optional) Display per-VRF information
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name

Command Mode

- /exec

clear ipv6 lisp statistics

```
clear ipv6 lisp statistics [ vrf { <vrf-name> | <vrf-known-name> } ]
```

Syntax Description

Syntax Description		
clear		Reset functions
ipv6		Clear IPv6 commands
lisp		LISP clear commands
statistics		Clear global LISP statistics
vrf		(Optional) Clear statistics for vrf
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name

Command Mode

- /exec

clear ipv6 mld groups

```
clear ipv6 [ icmp ] mld { groups | route } { <all> | <group-prefix> | <group> [ <source> ] } [ vrf { <vrf-name>
| <vrf-known-name> | all } ]
```

Syntax Description

Syntax Description

clear	Reset functions
ipv6	Clear IPv6 commands
icmp	(Optional) Clear ICMPv6 information
mld	Clear Multicast Listener Discovery information
groups	Route information
route	Route information
all	Clear all routes
vrf	(Optional) Clear information for particular VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs

Command Mode

- /exec

clear ipv6 mtu

```
clear ipv6 mtu [ <ipv6-addr> ] [ vrf { <vrf-name> | <vrf-known-name> } ]
```

Syntax Description

Syntax Description		
clear		Reset functions
ipv6		Clear IPv6 commands
mtu		Display IPV6 Path MTU Cache
vrf		(Optional) Clear information for particular VRF
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name

Command Mode

- /exec

clear ipv6 neighbor

```
clear ipv6 neighbor [ [ <nbr-addr> [ <intf> ] ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] | vrf { <vrf-name>
| <vrf-known-name> | all } | <interface> ] [ force-delete ]
```

Syntax Description

Syntax Description		
clear		Reset functions
ipv6		Clear IPv6 commands
neighbor		Clear ICMPv6 neighbor cache
<i>intf</i>	(Optional)	Clear cache entries for given interface
<i>interface</i>	(Optional)	Clear cache entries for given interface
force-delete	(Optional)	Clear the cache entries without refresh
vrf	(Optional)	Display per-VRF information
<i>vrf-name</i>	(Optional)	VRF name
<i>vrf-known-name</i>	(Optional)	Known VRF name
all	(Optional)	Display information for all VRFs

Command Mode

- /exec

clear ipv6 netstack mroute

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

Syntax Description

Syntax Description		
clear		Reset functions
ipv6		Clear IPv6 commands
netstack		Netstack's local cache
mroute		Multicast route information
all		Clear all routes
vrf		(Optional) Clear information for particular VRF
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name
all		(Optional) Display information for all VRFs

Command Mode

- /exec

clear ipv6 pim event-history

clear ipv6 pim event-history [<pim6-event-hist-buf-name>]

Syntax Description

Syntax Description		
	clear	Reset functions
	ipv6	Clear IPv6 commands
	pim	Clear PIM event history buffers
	event-history	Clear event-history buffers
	<i>pim6-event-hist-buf-name</i>	(Optional) Event-history buffer instance

Command Mode

- /exec

clear ipv6 pim interface statistics

clear ipv6 pim interface statistics [<interface>]

Syntax Description

Syntax Description		
clear		Reset functions
ipv6		Clear IPv6 commands
pim		Clear PIM6 information
interface		Interface related information
statistics		Packet interface counter statistics
<i>interface</i>	(Optional)	Interface name to clear

Command Mode

- /exec

clear ipv6 pim policy statistics jp

clear ipv6 pim policy statistics { jp-policy | neighbor-policy } <interface>

Syntax Description

Syntax Description		
clear		Reset functions
ipv6		Clear IPv6 commands
pim		Clear PIM information
policy		Policy related information
statistics		Policy statistics
jp-policy		Statistics for jp-policy
neighbor-policy		Statistics for neighbor-policy
<i>interface</i>		Interface

Command Mode

- /exec

clear ipv6 pim route

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

Syntax Description

Syntax Description		
clear		Reset functions
ipv6		Clear IPv6 commands
pim		PIM6 clear commands
route		Route information
all		Clear all routes
vrf		(Optional) Clear information for particular VRF
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name
all		(Optional) Display information for all VRFs

Command Mode

- /exec

clear ipv6 pim statistics

```
clear ipv6 pim statistics [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

Syntax Description		
clear		Reset functions
ipv6		Clear IPv6 commands
pim		Clear PIM6 information
statistics		Packet global counter statistics
vrf		(Optional) Display per-VRF information
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name
all		(Optional) Display information for all VRFs

Command Mode

- /exec

clear ipv6 raguard statistics

clear ipv6 raguard statistics

Syntax Description

Syntax Description	
clear	Reset functions
ipv6	IPv6
raguard	IPV6 raguard
statistics	RA packet drop count

Command Mode

- /exec

clear ipv6 rip policy statistics redistribute bgp

```
{ { clear ipv6 rip policy statistics redistribute bgp <as> } | { clear ipv6 rip policy statistics redistribute eigrp <tag> } | { clear ipv6 rip policy statistics redistribute isis <tag> } | { clear ipv6 rip policy statistics redistribute rip <tag> } | { clear ipv6 rip policy statistics redistribute ospfv3 <tag> } | { clear ipv6 rip policy statistics redistribute direct } | { clear ipv6 rip policy statistics redistribute static } } [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

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)
<i>as</i>	Autonomous system number
eigrp	Enhanced Interior Gateway Routing Protocol (EIGRP)
isis	Intermediate-to-intermediate (ISIS)
ospfv3	Open Shortest Path First (OSPFv3)
<i>tag</i>	Process tag
static	Static routes
direct	Directly connected routes
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs

Command Mode

- /exec

clear ipv6 statistics

clear ipv6 statistics

Syntax Description

Syntax Description	
clear	Reset functions
ipv6	Clear IPv6 commands
statistics	Clear IPv6 global statistics

Command Mode

- /exec

clear ipv6 traffic

```
clear ipv6 traffic [ vrf { <vrf-name> | <vrf-known-name> } ]
```

Syntax Description

Syntax Description		
clear		Reset functions
ipv6		Clear IPv6 commands
traffic		Clear IPv6 traffic statistics
vrf		(Optional) Display per-VRF information
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name

Command Mode

- /exec

clear isis adjacency

```
clear isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] adjacency { * | { <interface> | system-id
<sid> } + } [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

Syntax Description		
clear		Reset functions
isis		Clear IS-IS information
<i>isis-tag</i>		(Optional) Routing process tag
vrf		(Optional) Display per-VRF information
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name
all		(Optional) Display information for all VRFs
adjacency		Clear IS-IS adjacency state
*		IS-IS adjacencies on all interfaces
<i>interface</i>		IS-IS interface
system-id		Hostname or System ID
<i>sid</i>		Hostname or System ID (in the form of XXXX.XXXX.XXXX)

Command Mode

- /exec

clear isis dpi

```
clear isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] dpi [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

Syntax Description		
clear		Reset functions
isis		Clear IS-IS information
<i>isis-tag</i>	(Optional)	Routing process tag
vrf	(Optional)	Display per-VRF information
<i>vrf-name</i>	(Optional)	VRF name
<i>vrf-known-name</i>	(Optional)	Known VRF name
all	(Optional)	Display information for all VRFs
dpi		Clear IS-IS DPI logs

Command Mode

- /exec

clear isis event-history

```
clear isis [ <isis-tag> ] event-history [ <isis-event-hist-buf-name> ]
```

Syntax Description

Syntax Description		
clear		Reset functions
isis		Clear IS-IS information
<i>isis-tag</i>		(Optional) Routing process tag
event-history		Clear event history buffers
<i>isis-event-hist-buf-name</i>		(Optional) Clear the specific event history buffer

Command Mode

- /exec

clear isis internal packet queue counters

clear isis [<isis-tag>] internal packet queue counters

Syntax Description

Syntax Description	
clear	Reset functions
isis	Clear IS-IS information
<i>isis-tag</i>	(Optional) Routing process tag
internal	Commands for internal use
packet	Packet counters
queue	Packet queue counters
counters	Clear packet queue max counters

Command Mode

- /exec

clear isis ipv6 route-map statistics

```
clear isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] ipv6 route-map statistics { { redistribute
{ bgp <as> | { <src-isis> | eigrp | ospfv3 | rip } <tag> } } | { redistribute { static | direct | amt } } | { distribute
<src-level> into <dst-level> } } [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

Syntax Description

clear	Reset functions
isis	Clear IS-IS information
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
ipv6	Clear IS-IS IPv6 information
statistics	Clear IS-IS route-map statistics
redistribute	Redistribute information from another routing protocol
bgp	Border Gateway Protocol (BGP)
eigrp	Enhanced Interior Gateway Protocol
<i>as</i>	Autonomous system number
src-isis	IS-IS Routing for IPv6
ospfv3	Open Shortest Path First (OSPF) V3
rip	RIP for IPv6 (RIPNG)
<i>tag</i>	Process tag
static	Static routes
direct	Directly connected
amt	AMT anycast prefix
route-map	Route-map to constrain redistribution
distribute	Distribute routes between ISIS levels
into	from level-n into level-m
<i>src-level</i>	Route-distribution between levels

dst-level Route-distribution between levels

Command Mode

- /exec

clear isis redistribution

```
clear isis [ <isis-tag> ] redistribution [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

Syntax Description		
clear		Reset functions
isis		Clear IS-IS information
<i>isis-tag</i>		(Optional) Routing process tag
vrf		(Optional) Display per-VRF information
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name
all		(Optional) Display information for all VRFs
redistribution		Clear IS-IS redistributed information

Command Mode

- /exec

clear isis route-map statistics

```
clear isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ ip ] route-map statistics { { redistribute
{ bgp <as> | { <src-isis> | eigrp | ospf | rip } <tag> } } | { redistribute { static | direct | amt } } | { distribute
<src-level> into <dst-level> } } [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

Syntax Description		
clear		Reset functions
isis		Clear IS-IS information
<i>isis-tag</i>		(Optional) Routing process tag
vrf		(Optional) Display per-VRF information
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name
all		(Optional) Display information for all VRFs
ip		(Optional) Clear IS-IS IPv4 information
route-map		Clear IS-IS route-map information
statistics		Clear IS-IS route-map statistics
redistribute		Redistribute information from another routing protocol
bgp		Border Gateway Protocol (BGP)
eigrp		Enhanced Interior Gateway Protocol
<i>as</i>		Autonomous system number
src-isis		IS-IS Routing for IPv4
ospf		Open Shortest Path First (OSPF)
rip		RIP for IPv4
<i>tag</i>		Process tag
static		Static routes
direct		Directly connected
amt		AMT anycast prefix
distribute		Distribute routes between ISIS levels
into		from level-n into level-m
<i>src-level</i>		Route-distribution between levels

dst-level Route-distribution between levels

Command Mode

- /exec

clear isis spf-log

```
clear isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] spf-log [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

Syntax Description		
clear		Reset functions
isis		Clear IS-IS information
<i>isis-tag</i>		(Optional) Routing process tag
vrf		(Optional) Display per-VRF information
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name
all		(Optional) Display information for all VRFs
spf-log		Display IS-IS SPF information

Command Mode

- /exec

clear isis statistics

```
clear isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] statistics { * | <interface> } [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

Syntax Description		
clear		Reset functions
isis		Clear IS-IS information
<i>isis-tag</i>		(Optional) Routing process tag
vrf		(Optional) Display per-VRF information
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name
all		(Optional) Display information for all VRFs
statistics		Clear IS-IS protocol statistics
*		All IS-IS protocol statistics
<i>interface</i>		IS-IS interface

Command Mode

- /exec

clear isis traffic

```
clear isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] traffic { * | <interface> } [ vrf {
<vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

Syntax Description		
clear		Reset functions
isis		Clear IS-IS information
<i>isis-tag</i>		(Optional) Routing process tag
vrf		(Optional) Display per-VRF information
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name
all		(Optional) Display information for all VRFs
traffic		Clear IS-IS traffic information
*		All IS-IS traffic information
<i>interface</i>		IS-IS interface

Command Mode

- /exec

clear itd statistics

clear itd statistics <service-name>

Syntax Description

Syntax Description		
	clear	Reset functions
	itd	ITD service
	statistics	ITD statistics
	<i>service-name</i>	ITD service-name

Command Mode

- /exec

clear itd statistics

clear itd statistics <service-name>

Syntax Description

Syntax Description

clear	Reset functions
itd	ITD service
statistics	ITD statistics
<i>service-name</i>	ITD service-name

Command Mode

- /exec

clear keystore

```
clear { keystore | sksd } [ <index> | <name> ]
```

Syntax Description

Syntax Description

clear Reset functions

keystore Clear all records in the keystore

sksd Clear all records in the keystore/sksd-chip

index (Optional) Clear secret at index <index>

name (Optional) Clear secret with name <name>

Command Mode

- /exec

clear l2fwder statistics

clear l2fwder statistics

Syntax Description

Syntax Description

clear Reset functions

l2fwder Clear L2FWDER related information

statistics Clear the L2FWDER packet counters

Command Mode

- /exec

clear l3vm event-history

clear l3vm event-history { pss | errors | mts | reinit | cli | vrf | topology | all }

Syntax Description

Syntax Description		
clear		Reset functions
l3vm		Debug L3VM information
event-history	log	debug events into event history buffer
pss		L3VM pss operation
errors		L3VM errors
mts		L3VM MTS messages
reinit		L3VM reinit events
cli		Log L3VM CLI related events
vrf		Log VRF related events
topology		Log Topology related events
all		All L3VM debugging

Command Mode

- /exec

clear lacp counters

```
clear lacp counters [ interface <if0> ]
```

Syntax Description

Syntax Description

clear	Reset functions
-------	-----------------

lacp	LACP protocol
------	---------------

counters	LACP counters
----------	---------------

interface	(Optional) Specify a port-channel
-----------	-----------------------------------

<i>if0</i>	(Optional)
------------	------------

Command Mode

- /exec

clear ldap-server statistics

```
clear ldap-server statistics <host0> [ __readonly__ { <server_state> [ <clock_time> { monitoring_statistics
<time_in_pstate> <ndead> <tt_in_dstate> } ] } { { auth_statistics <auth_failed_transactions>
<auth_succ_transactions> <auth_req_sent> <auth_req_timedout> <auth_resp_no_match>
<auth_resp_not_processed> <auth_resp_error> } { acct_statistics <acct_failed_transactions>
<acct_succ_transactions> <acct_req_sent> <acct_req_timedout> <acct_resp_no_match>
<acct_resp_not_processed> <acct_resp_error> } } ]
```

Syntax Description

Syntax Description

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

<i>acct_req_sent</i>	(Optional) Accounting: Requests sent
<i>acct_req_timeout</i>	(Optional) Accounting: Requests timeout
<i>acct_resp_no_match</i>	(Optional) Accounting: Responses with no matching requests
<i>acct_resp_not_processed</i>	(Optional) Accounting: Responses not processed
<i>acct_resp_error</i>	(Optional) Accounting: Responses containing errors

Command Mode

- /exec

clear license

```
clear license { <license-file> [ force ] | sprom | <s0> }
```

Syntax Description

Syntax Description		
clear		Reset functions
license		clear license
<i>license-file</i>		License file to be uninstalled
force		(Optional) Force license clear (don't prompt)
sprom		clear license contents in sprom
<i>s0</i>		License file to be uninstalled

Command Mode

- /exec

clear lim counters

clear lim counters [timeline]

Syntax Description

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

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

Syntax Description		
clear		Reset functions
lisp		LISP clear commands
ddt		LISP Delegated Database Tree
referral-cache		Clear the DDT referral cache
vrf		(Optional) Clear entry for particular vrf
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name
instance-id		(Optional) Clear entry for specific instance-ID
<i>iid</i>		(Optional) 24-bit instance-ID value
<i>eid-prefix</i>		(Optional) Clear entry associated with IP EID-prefix

Command Mode

- /exec

clear lisp dynamic-eid

```
clear lisp dynamic-eid { <dyn-eid-name> | <dyn-eid> } [ vrf { <vrf-name> | <vrf-known-name> } ]
```

Syntax Description

Syntax Description		
clear		Reset functions
lisp		LISP clear commands
dynamic-eid		Clear dynamic-EID state
<i>dyn-eid</i>		IPv4 address of dynamic-EID entry
<i>dyn-eid-name</i>		Clear entries discovered for a dynamic-EID range
vrf		(Optional) Clear dynamic-EID entries for vrf
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name

Command Mode

- /exec

clear lisp internal event-history

clear lisp internal event-history <lisp-event-hist>

Syntax Description

Syntax Description		
clear		Reset functions
lisp		LISP clear commands
internal		Commands for internal use
event-history		Clear LISP event log
<i>lisp-event-hist</i>		Clear LISP event log

Command Mode

- /exec

clear lisp proxy-itr

```
clear lisp proxy-itr [ <addr> | <addr6> ] [ vrf { <vrf-name> | <vrf-known-name> } ]
```

Syntax Description

Syntax Description		
clear		Reset functions
lisp		LISP clear commands
proxy-itr		Clear discovered PITRs
<i>addr</i>		(Optional) IPv4 locator address of PITR
vrf		(Optional) Clear proxy-itr state for vrf
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name

Command Mode

- /exec

clear lisp site

```
clear lisp site <site-name> [ instance-id <iid> ] [ vrf { <vrf-name> | <vrf-known-name> } ]
```

Syntax Description

Syntax Description		
clear		Reset functions
lisp		LISP clear commands
site		Clear site registration data
<i>site-name</i>		Clear registration data for a single site
instance-id	(Optional)	Clear registration for a single instance-id within a site
<i>iid</i>	(Optional)	24-bit instance-ID value
vrf	(Optional)	Clear site entries for vrf
<i>vrf-name</i>	(Optional)	VRF name
<i>vrf-known-name</i>	(Optional)	Known VRF name

Command Mode

- /exec

clear lldp counters

clear lldp counters

Syntax Description

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

Syntax Description	
clear	Reset functions
lldp	Reset the lldp counters
counters	Reset the lldp traffic counters to zero
interface	Clear lldp traffic counters per interface
<i>if0</i>	Enter interface

Command Mode

- /exec

clear logging logfile

clear logging logfile

Syntax Description

Syntax Description	clear	Reset functions
	logging	Clear logging information
	logfile	Clear logfile messages

Command Mode

- /exec

clear logging nvram

clear logging nvram

Syntax Description

Syntax Description

clear Reset functions

logging Clear logging
 information

nvram Clear nvram logs

Command Mode

- /exec

clear logging onboard

```
clear logging onboard [ { counter-stats | epld-log | internal { <dc3_options> } | module <module> [ {
counter-stats | internal { <dc3_options> } } ] } ]
```

Syntax Description

Syntax Description		
clear		Reset functions
logging		Clear logging information
onboard		Clear OBFL information
counter-stats	(Optional)	Clear OBFL counter statistics
epld-log	(Optional)	Clear EPLD log
internal	(Optional)	Clear Logging Onboard Internal
module	(Optional)	Clear OBFL information for Module
<i>module</i>	(Optional)	Enter module number
counter-stats	(Optional)	Clear OBFL counter statistics
<i>dc3_options</i>	(Optional)	dc3 options

Command Mode

- /exec

clear logging onboard

clear logging onboard [{ card-boot-history | card-first-power-on | environmental-history | error-stats | exception-log | interrupt-stats | module <module> [{ environmental-history | error-stats | exception-log | interrupt-stats | obfl-logs | stack-trace | card-boot-history | card-first-power-on }] | obfl-logs | stack-trace }]

Syntax Description

Syntax Description

clear	Reset functions
logging	Clear logging information
onboard	Clear OBFL information
environmental-history	(Optional) Clear OBFL environmental history
error-stats	(Optional) Clear OBFL error statistics
exception-log	(Optional) Clear OBFL exception log
interrupt-stats	(Optional) Clear OBFL interrupt statistics
card-boot-history	(Optional) Clear Card Boot History
card-first-power-on	(Optional) Clear Card First Power On
module	(Optional) Clear OBFL information for Module
<i>module</i>	(Optional) Enter module number
obfl-logs	(Optional) Clear OBFL (boot-up/uptime/device-version/obfl-history).
stack-trace	(Optional) Clear OBFL stack trace

Command Mode

- /exec

clear logging session

clear logging session

Syntax Description

Syntax Description	
clear	Reset functions
logging	Clear logging information
session	Clear logging session

Command Mode

- /exec

clear login failures

clear login failures

Syntax Description

Syntax Description

clear Reset functions

login Secure Login

failures Clear login failures in the current watch period

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

Syntax Description

clear	Clear
mac	MAC configuration commands
address-table	MAC Address Table
datapath	Titanium Datapath Table
dynamic	clear dynamic entries from Titanium PD Forwarding Table
static	USE WITH CAUTION!! clear static entries from Titanium PD Forwarding Table
vlan	(Optional) VLAN
<i>id</i>	(Optional) VLAN ID
statistics	Clear datapath statistics
interface	(Optional) Clear datapath interface statistics
isis_intf_stats	Statistics of ISIS Frames Tx/Rx

Command Mode

- /exec

clear mmode database

clear mmode database

Syntax Description

Syntax Description

clear Reset functions

mmode Clear mmode

database Clear mmode
 database

Command Mode

- /exec

clear mpls forwarding statistics

clear mpls forwarding statistics [interface { <interface> | all }]

Syntax Description

Syntax Description

clear	Reset functions
mpls	MPLS events
forwarding	Clear MPLS software forwarded
statistics	Traffic statistics
interface	(Optional) Interface specific information
<i>interface</i>	(Optional) Interface chosen to clear statistics
all	(Optional) All interfaces

Command Mode

- /exec

clear mpls ldp internal counters

clear mpls ldp internal counters { all | system | forwarding }

Syntax Description

Syntax Description		
clear		Reset functions
mpls		MPLS clear commands
ldp		Clear LDP state
internal		Clear LDP internal information
counters		Clear LDP statistics
all		Clear all LDP statistics
system		Clear LDP system statistics
forwarding		Clear LDP forwarding related statistics

Command Mode

- /exec

clear mpls ldp neighbor

```
clear mpls ldp neighbor [ vrf { <vrf-name> | <vrf-known-name> } ] { <address> | * }
```

Syntax Description

Syntax Description		
clear		Reset functions
mpls		MPLS clear commands
ldp		Clear LDP state
neighbor		Clear LDP neighbor sessions
vrf		(Optional) VRF Routing/Forwarding instance information
<i>vrf-name</i>		(Optional) VPN Routing/Forwarding instance name
<i>vrf-known-name</i>		(Optional) Known VRF name
<i>address</i>		IP address for LDP neighbor
*		Clear all neighbors

Command Mode

- /exec

clear mpls static trace

```
clear mpls static trace { error | warning | event }
```

Syntax Description

Syntax Description	
clear	Clear MPLS static trace buffer
mpls	MPLS configuration commands
static	MPLS static
trace	MPLS static trace
error	MPLS static error trace
warning	MPLS static warning trace
event	MPLS static event trace

Command Mode

- /exec

clear mpls strip labels

clear mpls strip labels { static | dynamic | all }

Syntax Description

Syntax Description	
clear	Reset functions
mpls	Configure MPLS settings
strip	Stripping of MPLS headers
labels	labels in database
all	all labels [default]
static	labels learned using cli
dynamic	dynamically learned

Command Mode

- /exec

clear mpls switching label statistics

clear mpls switching label statistics { all | <label-value> }

Syntax Description

Syntax Description

clear	Reset functions
mpls	MPLS clear commands
switching	Clear MPLS label switching database information
label	Clear MPLS label information
statistics	Clear label statistics
all	Clear statistics for all labels
<i>label-value</i>	Label

Command Mode

- /exec

clear mpls traffic-eng auto-bw timers

clear mpls traffic-eng auto-bw timers

Syntax Description

Syntax Description

auto-bw	Clear auto-bw collection
timers	Clear tunnel counters
clear	Reset functions
mpls	MPLS clear commands
traffic-eng	Clear MPLS Traffic-Engineering statistical information

Command Mode

- /exec

clear mpls traffic-eng internal counters

clear mpls traffic-eng internal counters { forwarding | mts | rsvp-client | threads }

Syntax Description

Syntax Description

counters	Clear internal counters
forwarding	Clear forwarding programming stats
mts	Clear MTS send and receive stats
rsvp-client	Clear rsvp client call stats
threads	Clear thread event stats
clear	Reset functions
mpls	MPLS clear commands
traffic-eng	Clear MPLS Traffic-Engineering statistical information
internal	Clear internal information

Command Mode

- /exec

clear mpls traffic-eng link-management counters

clear mpls traffic-eng link-management counters

Syntax Description

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

Syntax Description	
tunnel	Clear Tunnel statistics
counters	Clear tunnel counters
clear	Reset functions
mpls	MPLS clear commands
traffic-eng	Clear MPLS Traffic-Engineering statistical information

Command Mode

- /exec

clear nbm flow statistics

clear nbm flow statistics

Syntax Description

Syntax Description	
clear	Clear
nbm	Non blocking Multicast
flow	NBM flows
statistics	Clear nbm flow statistics

Command Mode

- /exec

clear ngoam

```
clear ngoam { probe { statistics { summary | { session { <handle> | all } } } } }
```

Syntax Description

Syntax Description	
clear	Reset functions
ngoam	ngoam information
probe	clear ngoam probe
statistics	clear ngoam statistics
summary	clear ngoam statistics summary
session	clear ngoam information by session handle
<i>handle</i>	specify session handle
all	clear stats for all probe sessions

Command Mode

- /exec

clear ngoam

```
clear ngoam { { interface statistics } }
```

Syntax Description

Syntax Description

clear	Reset functions
-------	-----------------

ngoam	ngoam information
-------	-------------------

interface	probe packet interface
-----------	---------------------------

statistics	clear ngoam statistics
------------	------------------------

Command Mode

- /exec

clear ngoam

```
clear ngoam { loopback { { session { <ses-hdl> | all } } } | { statistics { summary | { session { <ses-hdl> | all } } } } } | database [ session <ses-hdl> ] } [ force ] }
```

Syntax Description

Syntax Description	
clear	Reset functions
ngoam	ngoam information
loopback	clear ngoam loopback
statistics	clear ngoam statistics
summary	clear ngoam statistics summary
database	clear ngoam database
session	clear ngoam information by session handle
<i>ses-hdl</i>	specify session handle
all	clear stats for all ping sessions
force	(Optional) Clear it, do not ask to confirm

Command Mode

- /exec

clear ngoam

```
clear ngoam { traceroute { { session { <handle> | all } } | { statistics { summary | { session { <handle> | all } } } } } [ force ] }
```

Syntax Description

Syntax Description

clear	Reset functions
ngoam	ngoam information
traceroute	clear ngoam traceroute
statistics	clear ngoam statistics
summary	clear ngoam statistics summary
session	clear ngoam information by session handle
<i>handle</i>	specify session handle
all	clear stats for all traceroute sessions
force	(Optional) Clear it, do not ask to confirm

Command Mode

- /exec

clear ngoam pathtrace

```
clear ngoam pathtrace { { statistics { summary | { session { <handle> | all } } } } | { database { session { <handle> | all } } } } [ force ]
```

Syntax Description

Syntax Description	
clear	Reset functions
ngoam	ngoam information
pathtrace	clear ngoam pathtrace
database	clear ngoam pathtrace database
statistics	clear ngoam statistics
summary	clear ngoam statistics summary
session	clear ngoam information by session handle
<i>handle</i>	specify session handle
all	clear stats for all pathtrace sessions
force	(Optional) Clear it, do not ask to confirm

Command Mode

- /exec

clear ntp session

clear ntp session

Syntax Description

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

Syntax Description	
clear	Reset functions
ntp	Network Time Protocol
statistics	Clear NTP Statistics
all-peers	Clear per-peer statistics counter of all peers
io	Clear input-output statistics
local	Clear counters maintained by the local NTP
memory	Clear statistics counters related to memory code

Command Mode

- /exec

clear nve peers history-log

clear nve peers history-log

Syntax Description

Syntax Description		
clear		Reset functions
nve		Configure NVE information
peers		NVE Peer
history-log	nve_clear_peers_history_log_cmd	

Command Mode

- /exec

clear nve peers interface counters

```
clear nve peers <addr> interface <nve-if>counters
```

Syntax Description

Syntax Description		
clear	Reset functions	
nve	Configure NVE information	
peers	NVE Peer	
<i>addr</i>	Remote Peer IP Address	
interface	Interface	

Command Mode

- /exec

clear nve peers vni interface counters

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

Syntax Description

Syntax Description		
clear	Reset functions	
nve	Configure NVE information	
peers	NVE Peer	
<i>addr</i>	Remote Peer IP Address	
all	Clear counters for all peers/VNIs	
vni	Virtual Network Identifier	
<i>vni-id</i>	Virtual Network Identifier	
interface	Interface	

Command Mode

- /exec

clear nve vni counters

```
clear nve vni { <vni-id> | all } counters
```

Syntax Description

Syntax Description

clear	Reset functions
nve	Configure NVE information
vni	Virtual Network Identifier
<i>vni-id</i>	Virtual Network Identifier
counters	Counters
all	Clear counters for all vnis

Command Mode

- /exec

clear nvram

clear nvram

Syntax Description

Syntax Description

clear Reset
functions

nvram purge
NVRAM

Command Mode

- /exec

clear nxapi retries

clear nxapi retries

Syntax Description

Syntax Description

clear Reset functions

nxapi nxapi related
functions

retries Clear retries bit

Command Mode

- /exec

clear onep error

clear onep error

Syntax Description

Syntax Description	
<code>clr</code>	Reset functions
<code>osp</code>	One Platform
<code>enr</code>	Clear the ONE-P error buffer

Command Mode

- /exec

clear onep history

```
clear onep history { { archived } | { all } | { session { all | <onep-session-id> } } }
```

Syntax Description

Syntax Description

clear	Reset functions
onep	One Platform
history	One Platform history trails
archived	One Platform archived session
session	One Platform session
all	All sessions
<i>onep-session-id</i>	Specific session name

Command Mode

- /exec

clear onep internal api statistics

```
clear onep internal api statistics { session { all | <onep-session-id> } }
```

Syntax Description

Syntax Description		
clear		Clear command
onep		ONE-P clear commands
internal		Internal commands
api		Thrift API calls
statistics		Clear internal ONE-P statistics
session		session
all		All current sessions
<i>onep-session-id</i>		Specific session

Command Mode

- /exec

clear onep session rate-limit

clear onep session rate-limit

Syntax Description

Syntax Description

clear	Reset functions
onep	One Platform
session	One Platform session
rate-limit	rate limiting feature info

Command Mode

- /exec

clear onep statistics

```
clear onep statistics [ session { all | <onep-session-id> } ]
```

Syntax Description

Syntax Description		
clear		Reset functions
onep		One Platform
statistics		statistics
session		(Optional) One Platform session
all		(Optional) All sessions
<i>onep-session-id</i>		(Optional) Specific session name

Command Mode

- /exec

clear onep trace

clear onep trace

Syntax Description

Syntax Description

clear Reset functions

onep One Platform

trace Clear the ONE-P trace
buffer

Command Mode

- /exec

clear openflow internal counters

```
clear openflow internal counters { mts | plifnxos | arp [ interface <ifname> ] }
```

Syntax Description

Syntax Description	
clear	Reset functions
openflow	Clear OpenFlow switch information
internal	Commands for internal use
counters	Clear internal counters
mts	Clear MTS send and receive stats
plifnxos	Clear counters for the L2RIB flow mods
arp	Clear ARP packet counters
interface	(Optional) Interface
<i>ifname</i>	(Optional) Interface name

Command Mode

- /exec

clear openflow internal pktflowdb

clear openflow internal pktflowdb

Syntax Description

Syntax Description	
clear	Reset functions
openflow	Clear OpenFlow switch information
internal	Commands for internal use
pktflowdb	Clear internal pktflowdb

Command Mode

- /exec

clear openflow internal switch flows stats table-id

clear openflow internal switch <switch-id> flows stats table-id <table-id> [interface <ifname>]

Syntax Description

Syntax Description	
clear	Reset functions
internal	Commands for internal use
openflow	Clear OpenFlow switch flows stats
switch	Logical switch id
<i>switch-id</i>	Logical switch-id
flows	Flows
stats	Clear packet count and bytes
table-id	Table-id for the pipeline
<i>table-id</i>	Table ID
interface	(Optional) Interface
<i>ifname</i>	(Optional) Interface name

Command Mode

- /exec

clear openflow switch controller all

clear openflow switch <switch-id> controller all

Syntax Description

Syntax Description		
clear	Reset functions	
openflow	Clear OpenFlow switch information	
switch	Logical switch id	
<i>switch-id</i>	Logical switch-id	
controller	Controller	
all	All	

Command Mode

- /exec

clear ospfv3 database

```
clear ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] database [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

Syntax Description		
clear		Reset functions
ospfv3		Clear OSPF tables
<i>tag</i>		(Optional) Process tag
vrf		(Optional) Display per-VRF information
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name
all		(Optional) Display information for all VRFs
database		Clear the LSDB and all neighbors

Command Mode

- /exec

clear ospfv3 event-history

clear ospfv3 [<tag>] event-history [adjacency | event | ha | flooding | lsa | spf | redistribution | cli | hello | spf-trigger | all]

Syntax Description

Syntax Description		
clear		Reset functions
ospfv3		Debugging functions
tag		(Optional) Process tag
event-history		Clear the event history buffers
adjacency		(Optional) Adjacency formation logs
event		(Optional) Internal event logs
ha		(Optional) HA and GR logs
flooding		(Optional) LSA flooding logs
lsa		(Optional) LSA generation and databse logs
spf		(Optional) SPF calculation logs
redistribution		(Optional) Redistribution logs
cli		(Optional) Cli logs
hello		(Optional) HELLO related logs
spf-trigger		(Optional) SPF TRIGGER related logs
all		(Optional) All event history buffers

Command Mode

- /exec

clear ospfv3 event-history detail

clear ospfv3 [<tag>] event-history detail

Syntax Description

Syntax Description		
clear		Reset functions
ospfv3		Debugging functions
<i>tag</i>		(Optional) Process tag
event-history		Clear the event history buffer
detail		Detailed event history buffer

Command Mode

- /exec

clear ospfv3 interface

```
clear ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] interface { * | <interface> } [ vrf {
<vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

Syntax Description		
clear		Reset functions
ospfv3		Clear OSPF tables
<i>tag</i>		(Optional) Process tag
vrf		(Optional) Display per-VRF information
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name
all		(Optional) Display information for all VRFs
interface		Clear one or more interfaces
*		Clear all interfaces
<i>interface</i>		Interface to clear

Command Mode

- /exec

clear ospfv3 internal interface-cache

```
clear ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] internal interface-cache [ <interface>
] [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

Syntax Description		
clear		Reset functions
ospfv3		Clear OSPF tables
<i>tag</i>		(Optional) Process tag
internal		Commands for internal use
interface-cache		Interface-cache
<i>interface</i>		(Optional) Interface to clear the interface-cache on
vrf		(Optional) Display per-VRF information
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name
all		(Optional) Display information for all VRFs

Command Mode

- /exec

clear ospfv3 neighbor

```
clear ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] neighbor { * | <neighborid> | <interface>
} [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

Syntax Description		
clear		Reset functions
ospfv3		Clear OSPF tables
<i>tag</i>		(Optional) Process tag
vrf		(Optional) Display per-VRF information
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name
all		(Optional) Display information for all VRFs
neighbor		Clear one or more neighbors
*		Clear all neighbors
<i>neighborid</i>		Source IP address, or router ID of the neighbor
<i>interface</i>		Interface to clear all neighbors on

Command Mode

- /exec

clear ospfv3 policy statistics

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

Syntax Description

Syntax Description

clear	Reset functions
ospfv3	Display OSPFv3 status and configuration
tag	(Optional) Process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
policy	Clear Policy related information
statistics	Display Route Filter statistics
redistribute	Statistics for redistribution
eigrp	Enhanced Interior Gateway Protocol (EIGRP)
rip	Routing Information Protocol (RIP)
isis	ISO Intermediate-to-Intermediate (IS-IS)
bgp	Border Gateway Protocol (BGP)
as	Autonomous system number
static	Static
direct	Directly connected
amt	AMT anycast prefix
lisp	LISP EID-prefixes
area	Configure area properties
area-id-ip	Area Id as an integer or ip address
filter-list	Filter prefixes between OSPF areas
in	Filter networks sent to this area
out	Filter networks sent from this area

tag

Command Mode

- /exec

clear ospfv3 redistribution

```
clear ospfv3 [ <tag> ] redistribution [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

Syntax Description		
clear		Reset functions
ospfv3		Clear OSPF tables
<i>tag</i>		(Optional) Process tag
vrf		(Optional) Display per-VRF information
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name
all		(Optional) Display information for all VRFs
redistribution		Clear OSPFv3 route redistribution

Command Mode

- /exec

clear ospfv3 statistics

```
clear ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] statistics [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

Syntax Description		
clear		Reset functions
ospfv3		Clear OSPF tables
<i>tag</i>		(Optional) Process tag
vrf		(Optional) Display per-VRF information
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name
all		(Optional) Display information for all VRFs
statistics		Clear statistics counters

Command Mode

- /exec

clear ospfv3 traffic

```
clear ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] traffic [ <interface> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

Syntax Description		
clear		Reset functions
ospfv3		Clear OSPF tables
<i>tag</i>		(Optional) Process tag
vrf		(Optional) Display per-VRF information
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name
all		(Optional) Display information for all VRFs
traffic		Clear traffic counters
<i>interface</i>		(Optional) Interface to clear all traffic on

Command Mode

- /exec

clear otv arp-nd

```
clear otv arp-nd [ <l3_addr> ]
```

Syntax Description

Syntax Description

clear	Reset functions
-------	-----------------

otv	OTV events
-----	------------

arp-nd	Log ARP/ND caching
clear	

l3_addr (Optional) L3 IP address

Command Mode

- /exec

clear otv internal event-history

clear otv internal event-history { event | learn | debug | arp-nd | packet | cli | delivery | fc | stp | all }

Syntax Description

Syntax Description		
clear	Reset functions	
otv	OTV events	
internal	Display OTV internal information	
event-history	Clear the event history buffers	
event	OTV Event logs	
fc	OTV FC logs	
learn	OTV Learn logs	
debug	OTV Internal debug logs	
arp-nd	OTV arp-nd logs	
packet	OTV packet logs	
cli	CLI logs	
delivery	OTV Delivery logs	
stp	OTV STP logs	
all	All event history buffers	

Command Mode

- /exec

clear otv isis adjacency

```
clear otv isis [ <otv-isis-tag> ] adjacency { * | { <interface> | system-id <sid> } } [ vpn { <vrf-name> | all } ]
```

Syntax Description

Syntax Description

clear	Reset functions
otv	Clear OTV commands
isis	Clear IS-IS information
<i>otv-isis-tag</i>	(Optional) Routing process tag
vpn	(Optional) Display VPN information
<i>vrf-name</i>	(Optional) VPN name
all	(Optional) All configured VPNs
adjacency	Clear IS-IS adjacency state
*	IS-IS adjacencies on all interfaces
<i>interface</i>	IS-IS interface
system-id	Hostname or System ID
<i>sid</i>	Hostname or System ID (in the form of XXXX.XXXX.XXXX)

Command Mode

- /exec

clear otv isis event-history

```
clear otv isis [ <isis-tag> ] event-history [ <isis-event-hist-buf-name> ]
```

Syntax Description

Syntax Description		
	clear	Reset functions
	otv	Clear OTV commands
	isis	Clear IS-IS information
	<i>isis-tag</i>	(Optional) Routing process tag
	event-history	Clear event history buffers
	<i>isis-event-hist-buf-name</i>	(Optional) Clear the specific event history buffer

Command Mode

- /exec

clear otv isis internal packet queue counters

clear otv isis [<otv-isis-tag>] internal packet queue counters

Syntax Description

Syntax Description		
	clear	Reset functions
	otv	Display OTV information
	isis	Display IS-IS status and configuration
	<i>otv-isis-tag</i>	(Optional) Routing process tag
	internal	Commands for internal use
	packet	Packet counters
	queue	Packet queue counters
	counters	Clear packet queue max counters

Command Mode

- /exec

clear otv isis internal perf timer

```
clear otv isis [ <otv-isis-tag> ] internal perf timer
```

Syntax Description

Syntax Description		
clear		Reset functions
otv		Display OTV information
isis		Display IS-IS status and configuration
<i>otv-isis-tag</i>	(Optional)	Routing process tag
internal		Commands for internal use
perf		Performance
timer		Timer performance

Command Mode

- /exec

clear otv isis route-map statistics

```
clear otv isis [ <otv-isis-tag> ] [ ip ] route-map statistics [ vpn { <vrf-name> | all } ]
```

Syntax Description

Syntax Description		
clear	Reset functions	
otv	Clear OTV commands	
isis	Clear IS-IS information	
<i>otv-isis-tag</i>	(Optional) Routing process tag	
vpn	(Optional) Display VPN information	
<i>vrf-name</i>	(Optional) VPN name	
all	(Optional) All configured VPNs	
ip	(Optional) Clear IS-IS IPv4 information	
route-map	Clear IS-IS route-map information	
statistics	Clear IS-IS route-map statistics	

Command Mode

- /exec

clear otv isis statistics

```
clear otv isis [ <otv-isis-tag> ] statistics { * | <interface> } [ vpn { <vrf-name> | all } ]
```

Syntax Description

Syntax Description		
clear	Reset functions	
otv	Clear OTV commands	
isis	Clear IS-IS information	
<i>otv-isis-tag</i>	(Optional) Routing process tag	
vpn	(Optional) Display VPN information	
<i>vrf-name</i>	(Optional) VPN name	
all	(Optional) All configured VPNs	
statistics	Clear IS-IS protocol statistics	
*	All IS-IS protocol statistics	
<i>interface</i>	IS-IS interface	

Command Mode

- /exec

clear otv isis traffic

```
clear otv isis [ <otv-isis-tag> ] traffic { * | <interface> } [ vpn { <vrf-name> | all } ]
```

Syntax Description

Syntax Description		
clear		Reset functions
otv		Clear OTV commands
isis		Clear IS-IS information
<i>otv-isis-tag</i>	(Optional)	Routing process tag
vpn	(Optional)	Display VPN information
<i>vrf-name</i>	(Optional)	VPN name
all	(Optional)	All configured VPNs
traffic		Clear IS-IS traffic information
*		All IS-IS traffic information
<i>interface</i>		IS-IS interface

Command Mode

- /exec

clear pktmgr cache interface

```
clear pktmgr cache { { interface [ <intf> ] } | { vlan [ <vl> ] } }
```

Syntax Description

Syntax Description	
clear	Reset functions
pktmgr	Clear Packet Manager information
cache	Clear pktmgr cache
interface	Clear pktmgr related interface information
vlan	Clear pktmgr related vlan information
<i>intf</i>	(Optional) Interface name to clear
<i>vl</i>	(Optional) Vlan

Command Mode

- /exec

clear pktmgr client

clear pktmgr client [<uuid>]

Syntax Description

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

Syntax Description	
clear	Reset functions
pktmgr	Clear Packet Manager information
interface	Clear pktmgr related interface information
<i>interface</i>	(Optional) Interface name to display

Command Mode

- /exec

clear port-profile command-cache

```
clear port-profile command-cache [ interface <intfname> ]
```

Syntax Description

Syntax Description		
clear		Reset functions
port-profile		Clear port-profiles
command-cache		Clear port-profile command cache
interface		(Optional) Name of interface
<i>intfname</i>		(Optional) Name of interface

Command Mode

- /exec

clear port-profile database

clear port-profile database

Syntax Description

Syntax Description	
clear	Reset functions
port-profile	Clear port-profiles
database	Clear port-profile database

Command Mode

- /exec

clear port-security dynamic address vlan

clear port-security dynamic address <mac-address> vlan <vlanid>

Syntax Description

Syntax Description		
clear		Reset functions
port-security		Clear port-security information
dynamic		dynamic addresses
address		secure address
<i>mac-address</i>		48 bit mac address
vlan		vlan information
<i>vlanid</i>		vlan id. Enter a value between 1 and 4094

Command Mode

- /exec

clear port-security dynamic interface

clear port-security dynamic interface <if_index> [vlan <vlanid>]

Syntax Description

Syntax Description	
clear	Reset functions
port-security	Clear port-security information
dynamic	dynamic addresses
interface	interface
<i>if_index</i>	ethernet
vlan	(Optional) vlan information
<i>vlanid</i>	(Optional) vlan id. Enter a value between 1 and 4094

Command Mode

- /exec

clear port-security nvram

clear port-security nvram

Syntax Description

Syntax Description		
clear		Reset functions
port-security		Clear port-security information
nvram		port-security nvram

Command Mode

- /exec

clear processes log all

clear processes log all

Syntax Description

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

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

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

Syntax Description

clear	Reset functions
processes	process-related clear commands
log	Delete log files
pid	Delete log file of a specific process
<i>i0</i>	pid of the process

Command Mode

- /exec

clear processes vdc log all

clear processes vdc <e-vdc2> log all

Syntax Description

Syntax Description	
clear	Reset functions
processes	process-related clear commands
vdc	process-related clear commands in vdc
<i>e-vdc2</i>	Enter Virtual Device Context <vdc-id>
log	Delete log files
all	Delete all the log files

Command Mode

- /exec

clear processes vdc log pid

clear processes vdc <e-vdc2> log pid <i1>

Syntax Description

Syntax Description		
clear	Reset functions	
processes	process-related clear commands	
vdc	process-related clear commands in vdc	
<i>e-vdc2</i>	Enter Virtual Device Context <vdc-id>	
log	Delete log files	
pid	Delete log file of a specific process	
<i>i1</i>	pid of the process	

Command Mode

- /exec

clear ptp counters interface

```
clear ptp counters { interface <if0> | all }
```

Syntax Description

Syntax Description	
clear	Reset functions
ptp	Precision Time Protocol (IEEE 1588) Subsystem
counters	Display PTP packet counters
interface	Enter the port interface
all	Displays all information
<i>if0</i>	

Command Mode

- /exec

clear qos mpls-snmp

clear qos mpls-snmp

Syntax Description

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

Syntax Description	
clear	Reset functions
policies	Clear default policies

Command Mode

- /exec

clear qos policies force

clear qos policies force

Syntax Description

Syntax Description

clear Reset functions

policies Clear default
 policies

force Clear forcefully

Command Mode

- /exec

clear qos statistics

```
clear qos statistics [ { interface [ <iface-list> ] | vlan [ <vlan-list> ] } [ input | output ] [ type <qos-or-q> ] ]
```

Syntax Description

Syntax Description	
clear	Reset functions
statistics	Clear statistics
interface	(Optional) Clear statistics on a interface
<i>iface-list</i>	(Optional) List of Interfaces
vlan	(Optional) 802.1Q vlan
<i>vlan-list</i>	(Optional) List of vlan ids
input	(Optional) Input Service policy
output	(Optional) Output Service policy
type	(Optional) Policy type
<i>qos-or-q</i>	(Optional)

Command Mode

- /exec

clear queuing burst-detect

```
clear queuing burst-detect [ interface <if_name> [ queue <queue_num> ] ] [ module <module> ]
```

Syntax Description

Syntax Description

clear	Clear all entries
queuing	Queuing related information
burst-detect	Out of Band micro-burst queue statistics
interface	(Optional) Interface
<i>if_name</i>	(Optional) interface name
queue	(Optional) Queue number for displaying statistics
<i>queue_num</i>	(Optional) Queue number
module	(Optional) Slot/module
<i>module</i>	(Optional) Slot/module number

Command Mode

- /exec

clear queuing pfc-queue interface

clear queuing pfc-queue interface <if_list>

Syntax Description

Syntax Description	
clear	Reset functions
queuing	clear queuing related counters
pfc-queue	clear watchdog timers
interface	Interface
<i>if_list</i>	List of interfaces

Command Mode

- /exec

clear queuing pfc-queue interface

clear queuing pfc-queue interface <if_list>

Syntax Description

Syntax Description	
clear	Reset functions
queuing	clear queuing related counters
pfc-queue	clear watchdog timers
interface	Interface
<i>if_list</i>	List of interfaces

Command Mode

- /exec

clear queuing tah-pfc-queue

```
clear queuing tah-pfc-queue [ interface <if_list> ] [ module <module> ]
```

Syntax Description

Syntax Description		
clear		Clear
queuing		Queuing related information
tah-pfc-queue		PFC watchdog queuing related stats
interface	(Optional)	Interface for clearing queuing stats
<i>if_list</i>	(Optional)	List of interfaces
module	(Optional)	Slot/module
<i>module</i>	(Optional)	Slot/module number

Command Mode

- /exec

clear radius-server statistics

```
clear radius-server statistics <host0> [ __readonly__ { <server_state> [ <clock_time> { monitoring_statistics
<time_in_pstate> <ndead> <tt_in_dstate> } ] } } { auth_statistics <auth_failed_transactions>
<auth_succ_transactions> <auth_req_sent> <auth_req_timedout> <auth_resp_no_match>
<auth_resp_not_processed> <auth_resp_error> } { acct_statistics <acct_failed_transactions>
<acct_succ_transactions> <acct_req_sent> <acct_req_timedout> <acct_resp_no_match>
<acct_resp_not_processed> <acct_resp_error> } } ]
```

Syntax Description

Syntax Description

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

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

Command Mode

- /exec

clear radius session

clear radius session

Syntax Description

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

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

Syntax Description		
clear		Reset functions
route-map		Route-map used for PBR
<i>route-map-name</i>		Route-map name
<i>route-map-cfg-name</i>		Known route-map name
pbr-statistics		Statistics for policy based routing

Command Mode

- /exec

clear routing event-history

```
clear routing [ ip | ipv4 ] [ unicast ] event-history { add-route | cli | delete-route | detail | errors | general | ha |
loop-detection | modify-route | notifications | recursive-next-hop | summary | ufdm | ufdm-detail | ufdm-summary
}
```

Syntax Description

Syntax Description

clear	Reset functions
routing	Clear routing information
ip	(Optional) Clear IP commands
ipv4	(Optional) Clear IP commands
unicast	(Optional) Clear unicast information
event-history	Clear routing event log
add-route	Add route
cli	CLI
delete-route	Delete route
detail	Detail
errors	Errors
general	General
ha	HA
loop-detection	Loop detection
modify-route	Modify route
notifications	Notification
recursive-next-hop	Recursive next hop
summary	Summary
ufdm	UFDM
ufdm-detail	UFDM Detail
ufdm-summary	UFDM Summary

Command Mode

- /exec

clear routing ipv6 event-history

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

Syntax Description

Syntax Description		
clear		Reset functions
routing		Clear routing information
ipv6		Clear IPv6 commands
unicast		(Optional) Clear unicast information
event-history		Clear routing event log
am		AM
cli		CLI
detail		Detail
errors		Errors
general		General
ha		HA
lfe		LFE
recursive-next-hop		Recursive next hop
summary		Summary
ufdm		UFDM
ufdm-detail		UFDM Detail
ufdm-summary		UFDM Summary

Command Mode

- /exec

clear routing memstats

clear routing [ip | ipv4] [unicast] memstats

Syntax Description

Syntax Description	
clear	Reset functions
routing	Clear routing information
ip	(Optional) Clear IP commands
ipv4	(Optional) Clear IP commands
unicast	(Optional) Display unicast information
memstats	Clear urib memory statistics

Command Mode

- /exec

clear rpm pss

```
clear rpm pss { running | startup | all }
```

Syntax Description

Syntax Description	
clear	Reset functions
rpm	Route Policy Manager (RPM)
pss	Clear PSS related information
running	Clear the running PSS commands configuration
startup	Clear the startup PSS commands configuration
all	Clear all PSS commands configuration

Command Mode

- /exec

clear scheduler logfile

clear scheduler logfile

Syntax Description

Syntax Description	
clear	Reset functions
scheduler	Scheduler clear commands
logfile	Clear scheduler log file

Command Mode

- /exec

clear screen

clear screen

Syntax Description

Syntax Description

clear Reset
functions

screen Clear screen

Command Mode

- /exec

clear session state name

clear session state name <s4>

Syntax Description

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

Syntax Description	
clear	Reset functions
sflow	sFlow global configuration
statistics	Clear sFlow statistics

Command Mode

- /exec

clear snmp counters

clear snmp counters

Syntax Description

Syntax Description	
clear	Reset functions
snmp	Clear SNMP Tables
counters	Clear SNMP counters

Command Mode

- /exec

clear snmp hostconfig

clear snmp hostconfig

Syntax Description

Syntax Description

clear	Reset functions
snmp	Clear SNMP Tables
hostconfig	Clear SNMP Host List

Command Mode

- /exec

clear sockets internal event-history

clear sockets internal event-history { errors | setup | ha | event | proto | log | all } [dump-to-file]

Syntax Description

Syntax Description

clear	Reset functions
sockets	Display sockets status and configuration
internal	Commands for internal use
event-history	various event logs of sockets
errors	Clear error logs of sockets
setup	Clear setup debug message buffer of sockets
ha	Clear ha debug message buffer of sockets
event	Clear events/pcb debug message of sockets
proto	Clear tcp/udp/raw ip debug message of sockets
log	Clear syslog message of sockets
all	Clear all event history buffers
dump-to-file	(Optional) Dump the sockets event history logs into the file

Command Mode

- /exec

clear sockets statistics

```
clear sockets statistics { all | tcp | tcp6 | udp | udp6 | raw | raw6 }
```

Syntax Description

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

Syntax Description		
clear		Reset functions
spanning-tree		Spanning Tree Subsystem
counters		Clear spanning tree statistics
interface	(Optional)	Specify an interface as a target for the command
<i>interface-id</i>	(Optional)	Specify an interface as a target for the command
vlan	(Optional)	VLAN Switch Spanning Trees
bridge-domain	(Optional)	Bridge-Domain Switch Spanning Trees
<i>vlan-id</i>	(Optional)	vlan range, Example: 1,3-5,7,9-11
<i>bd-id</i>	(Optional)	Bridge-Domain range, Example: 2,4-5,7,9-11

Command Mode

- /exec

clear spanning-tree detected-protocols

clear spanning-tree detected-protocols [interface <interface-id>]

Syntax Description

Syntax Description		
clear		Reset functions
spanning-tree		Spanning Tree Subsystem
detected-protocols		Restart the protocol migration process
interface		(Optional) Specify an interface as a target for the command
<i>interface-id</i>		(Optional) Specify an interface as a target for the command

Command Mode

- /exec

clear spanning-tree sps-hist

clear spanning-tree sps-hist

Syntax Description

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

Syntax Description

~~clear~~ Reset functions

ssh Clear ssh values

~~hosts~~ Clear the list of trusted ssh hosts

Command Mode

- /exec

clear system internal adjmgr event-history

clear system internal adjmgr event-history { control | errors | ipc | stats | ha | cli | sdb | snmp | nb | dme-event | all } [dump-to-file]

Syntax Description

Syntax Description

clear	Reset functions
system	System-related show commands
internal	Commands for internal use
adjmgr	AM information
event-history	various event logs of Adjmgr
control	Clear control logs of Adjmgr
errors	Clear error logs of Adjmgr
ipc	Clear ipc debug message logs of Adjmgr
stats	Clear stats debug message logs of Adjmgr
ha	Clear ha debug message logs of Adjmgr
cli	Clear cli related events of Adjmgr
sdb	Clear sdb debug message logs of Adjmgr
snmp	Clear snmp debug message logs of Adjmgr
nb	Clear netbroker debug message logs of Adjmgr
dme-event	Clear dme event logs of Adjmgr
all	Clear all event-history logs of Adjmgr
dump-to-file	(Optional) Dump the AdjMgr event history logs into the file

Command Mode

- /exec

clear system internal forwarding pd-history

clear system internal forwarding pd-history

Syntax Description

Syntax Description		
clear		Clear bintrace entries
system		System-related show commands
internal		Commands for internal use
forwarding	forwarding	
pd-history		MFDM DI history

Command Mode

- /exec

clear system internal forwarding pd-history bitmask

clear system internal forwarding pd-history bitmask

Syntax Description

Syntax Description		
clear		Clear bintrace entries
system		System-related show commands
internal		Commands for internal use
forwarding		forwarding
pd-history		MFDM DI history
bitmask		Bitmask

Command Mode

- /exec

clear system internal forwarding unicast counters

clear system internal forwarding unicast counters

Syntax Description

Syntax Description		
clear	Show running system information	
system	System-related show commands	
internal	Commands for internal use	
forwarding	Show fib information	
unicast	show unicast information	
counters	Show mpls pd counters	

Command Mode

- /exec

clear system internal nbm shm table

clear system internal nbm shm table [<i0>]

Syntax Description

Syntax Description	
clear	Reset functions
system	System-related show commands
internal	Commands for internal use
nbm	Non Blocking Multicast
shm	Shared Memory related commands
table	SHM table
<i>i0</i>	(Optional) If Index

Command Mode

- /exec

clear system internal npacl event-history

clear system internal npacl event-history { acl | ppf | cli | internal | all } [dump-to-file]

Syntax Description

Syntax Description		
clear	Reset functions	
system	system	
internal	Commands for internal use	
npacl	Configure NPACL feature	
event-history	event history	
acl	Clear acl policy history	
ppf	Clear ppf interaction history	
cli	Clear cli history	
internal	Clear internal	
all	Clear all history buffers	
dump-to-file	(Optional) Dump the npacl event history logs into the file	

Command Mode

- /exec

clear system internal orib event-history

clear system internal orib event-history [<orib-event-hist-buf-name>] [verbose]

Syntax Description

Syntax Description		
clear		Reset functions
system		Clear logs in system
internal		Commands for internal use
orib		Clear ORIB commands
event-history		ORIB event logs
<i>orib-event-hist-buf-name</i>	(Optional)	Event history buffer
verbose	(Optional)	Do not add per route info into buffer

Command Mode

- /exec

clear system internal pktmgr internal event-history

```
clear system internal pktmgr internal event-history { errors | control | log | ha | pkt-errors | pkt-buffer | all } [
dump-to-file ]
```

Syntax Description

Syntax Description		
clear	Reset functions	
system	System-related show commands	
internal	Commands for internal use	
pktmgr	Clear Packet Manager information	
internal	Commands for internal use	
event-history	Clear various event logs of Pktmgr	
errors	Clear error logs of Pktmgr	
control	Clear control message of Pktmgr	
log	Clear syslog message of Pktmgr	
ha	Clear ha debug message of Pktmgr	
pkt-errors	Clear pkt error message of Pktmgr	
pkt-buffer	Clear pkt buffers message of Pktmgr	
all	All event history buffers	
dump-to-file	(Optional) Dump the PktMgr event history logs into the file	

Command Mode

- /exec

clear system internal virtual-service utilization statistics CPU

clear system internal virtual-service utilization statistics CPU

Syntax Description

Syntax Description		
	clear	Reset functions
	system	Enable debugging of system components
	internal	Commands for internal use
	virtual-service	Clear statistics of virtual service
	utilization	Utilization information about virtual service
	statistics	Clear statistics of virtual service
	CPU	Clear CPU statistics of virtual service

Command Mode

- /exec

clear system reset-reason

clear system reset-reason

Syntax Description

Syntax Description		
	clear	Reset functions
	system	Clear logs in system
	reset-reason	Clear reset-reason logs in the system

Command Mode

- /exec

clear system reset-reason history

clear system reset-reason history

Syntax Description

Syntax Description		
clear		Reset functions
system		Clear logs in system
reset-reason		Clear reset-reason logs in the system
history		Clear reset-reason history logs in the system

Command Mode

- /exec

clear tacacs-server statistics

```
clear tacacs-server statistics <host0> [ __readonly__ { <server_state> [ <clock_time> { monitoring_statistics
<time_in_pstate> <ndead> <tt_in_dstate> } ] } { auth_statistics <auth_failed_transactions>
<auth_succ_transactions> <auth_req_sent> <auth_req_timedout> <auth_resp_no_match>
<auth_resp_not_processed> <auth_resp_error> } { autho_statistics <autho_failed_transactions>
<autho_succ_transactions> <autho_req_sent> <autho_req_timedout> <autho_resp_no_match>
<autho_resp_not_processed> <autho_resp_error> } { acct_statistics <acct_failed_transactions>
<acct_succ_transactions> <acct_req_sent> <acct_req_timedout> <acct_resp_no_match>
<acct_resp_not_processed> <acct_resp_error> } ]
```

Syntax Description

Syntax Description		
clear		Reset functions
tacacs-server		Clear TACACS related parameters
statistics		Clear TACACS statistics
<i>host0</i>		DNS name or IP address
<i>__readonly__</i>		(Optional)
<i>server_state</i>		(Optional) Show state of server
<i>clock_time</i>		(Optional) Show clock time in terms of hours, minutes and seconds
monitoring_statistics		(Optional) Monitoring Statistics
<i>time_in_pstate</i>		(Optional) Time in previous state
<i>ndead</i>		(Optional) Number of times dead
<i>tt_in_dstate</i>		(Optional) Total time in dead state
auth_statistics		(Optional) Authentication Statistics
autho_statistics		(Optional) Authorization Statistics
acct_statistics		(Optional) Accounting Statistics
<i>auth_failed_transactions</i>		(Optional) Authentication: Failed transactions
<i>auth_succ_transactions</i>		(Optional) Authentication: Successful transactions
<i>auth_req_sent</i>		(Optional) Authentication: Requests sent
<i>auth_req_timedout</i>		(Optional) Authentication: Requests timedout
<i>auth_resp_no_match</i>		(Optional) Authentication: Responses with no matching requests
<i>auth_resp_not_processed</i>		(Optional) Authentication: Responses not processed
<i>auth_resp_error</i>		(Optional) Authentication: Responses containing errors

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

Command Mode

- /exec

clear tech-support lock

clear tech-support lock

Syntax Description

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

Syntax Description	
clear	Reset functions
tech-support	Gather information for troubleshooting
lock	Clear the lock which prohibits multiple show techs to run in parallel

Command Mode

- /exec

clear track internal info counters

clear track internal info counters

Syntax Description

Syntax Description	
clear	Reset functions
track	Clear track information
internal	Clear internal track information
info	Clear internal data structure information
counters	Clear track counters information

Command Mode

- /exec

clear user

clear user <s0>

Syntax Description

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

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

Syntax Description		
clear		Reset functions
vlan		Vlan commands
access-list		Clear access list statistical information
counters		Clear access list counters
<i>name</i>	(Optional)	List name

Command Mode

- /exec

clear vlan counters

```
clear vlan [ id <vlan-id> ] counters
```

Syntax Description

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

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

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

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

Syntax Description		
clear	Reset functions	
vpc	Statistics for a specific vPC	
statistics	Statistics	
<i>vpc_num</i>	Virtual Port Channel number	
peer-link	stats for peer-link	

Command Mode

- /exec

clear vpc transport statistics

clear vpc transport statistics [*__readonly__* <last-clear-time>]

Syntax Description

Syntax Description		
clear		Reset functions
vpc		Virtual Port Channel configuration
transport		cfs transport
statistics		Statistics
<i>__readonly__</i>	(Optional)	Read Only
<i>last-clear-time</i>	(Optional)	time difference from last clear time

Command Mode

- /exec/

clear vrrp statistics

```
clear vrrp statistics [ interface <intf_num> ] [ vr <vr_id> ]
```

Syntax Description

Syntax Description	
clear	Reset functions
vrrp	Clear virtual router
statistics	Clear global virtual router statistics
interface	(Optional) Select interface
<i>intf_num</i>	(Optional)
vr	(Optional) [1-255] clear virtual router statistics
<i>vr_id</i>	(Optional)

Command Mode

- /exec

clear vrrpv3 statistics

```
clear vrrpv3 statistics [ <interface_num> [ <group_num> ] ] [ <opt_v4_or_v6> ]
```

Syntax Description

Syntax Description		
clear		Reset functions
vrrpv3		VRRPv3 Clear commands
statistics		VRRPV3 statistics
<i>interface_num</i>	(Optional)	Interface
<i>group_num</i>	(Optional)	Group number
<i>opt_v4_or_v6</i>	(Optional)	Enter ipv4 or ipv6

Command Mode

- /exec

clear xl

clear xl

Syntax Description

Syntax Description

clear Reset
functions

xl

Command Mode

- /exec

cli alias name

{ cli alias name <s0> <line> | no cli alias name <s0> [<line>] }

Syntax Description

Syntax Description	<i>no</i> Negate a command or set its defaults
	<i>cli</i> Configure CLI commands
	<i>alias</i> Define an alias
	<i>name</i> Specify the alias
	<i>s0</i> Alias command
	<i>line</i> Alias definition

Command Mode

- /exec/configure

cli reload parsetree

cli reload parsetree

Syntax Description

Syntax Description

cli

reload

parsetree

Command Mode

- /exec

cli show running-config local

cli show running-config local

Syntax Description

Syntax Description	
	cli
	show
	running-config
	local

Command Mode

- /exec

cli var name

{ cli var name <s0> <line> | no cli var name <s0> [<line>] }

Syntax Description

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

cli no var name <s0>

Syntax Description

Syntax Description	
cli	CLI commands
no	Negate a command or set its defaults
var	Unset a variable
name	Specify a variable name
s0	Variable name

Command Mode

- /exec

cli var name

[no] cli var name <s0>

Syntax Description

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

Syntax Description	<i>cli</i> CLI commands
	<i>var</i> Define a variable
	<i>name</i> Specify a variable name
	<i>s0</i> Variable name
	<i>line</i> Variable value

Command Mode

- /exec

cli verifyrun

[no] cli verifyrun

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
cli	CLI commands
verifyrun	Verify and run

Command Mode

- /exec

client-to-client reflection

[no] client-to-client reflection

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
client-to-client	Configure client-to-client route reflection
reflection	reflection of routes permitted

Command Mode

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

clis all

clis { no debug | undebg } all

Syntax Description

Syntax Description

clis dcos cli command

no Negate a command or set its defaults

undebg Disable Debugging functions (See also debug)

debug Debugging functions

all Disable

Command Mode

- /exec

clock-tolerance ntp oneway absolute

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

Syntax Description

Syntax Description	
	no
	<i>clock-tolerance</i> ntp
default	Set a command to its defaults
clock-tolerance	Set acceptable clock synchronization error
ntp	Acceptable clock synchronization error due to NTP
oneway	Acceptable clock synchronization error in oneway measurement
absolute	Acceptable error in microseconds
percent	Acceptable error as percent of value measured
<i>abs-value</i>	Number in microseconds
<i>percentage</i>	Percentage of one-way delay

Command Mode

- /exec/configure/ip-sla/jitter

clock format 12

[no] clock format { 12-hours | 24-hours }

Syntax Description

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

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

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

Syntax Description	
no	(Optional) Negate a command or set its defaults
clock	Clock
protocol	protocol
ntp	ntp
ptp	ptp
none	none (clock can be set manually)
vdc	vdc
<i>vdc-id</i>	vdc-id

Command Mode

- /exec/configure

clock set

clock set <s0> <i0> { April <i1> | August <i2> | December <i3> | February <i4> | January <i5> | July <i6> | June <i7> | March <i8> | May <i9> | November <i10> | October <i11> | September <i12> }

Syntax Description

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

Syntax Description

no	Negate a command or set its defaults
clock	Clock
summer-time	Configure summer (daylight savings) time
<i>s0</i>	Name of time zone in summer, such as PDT, CDT, EDT, etc..
<i>i0</i>	(Optional) Week number to start (first week=1, last week=5)
<i>s1</i>	(Optional) Weekday to start
<i>s2</i>	(Optional) Month to start
<i>s3</i>	(Optional) HH:MM Time to start
<i>i1</i>	(Optional) Week number to end (first week=1, last week=5)
<i>s4</i>	(Optional) Weekday to end
<i>s5</i>	(Optional) Month to end
<i>s6</i>	(Optional) HH:MM Time to end
<i>i2</i>	(Optional) Offset to add in minutes
timezone	Configure time zone
<i>s7</i>	Name of time zone, such as PST, MST, CST, EST, etc..
<i>i3</i>	Hours offset from UTC
<i>i4</i>	Minutes offset from UTC

Command Mode

- /exec/configure

clock sync-interval

[no] clock sync-interval <intv>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
clock	Clock
sync-interval	sync-interval in seconds
<i>intv</i>	interval

Command Mode

- /exec/configure

cluster-id

[no] cluster-id { <ip-cluster-id> | <int-cluster-id> }

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
cluster-id	Configure Route Reflector Cluster-ID
<i>ip-cluster-id</i>	Cluster-id as an IP address
<i>int-cluster-id</i>	Cluster-id as a 32 bit quantity

Command Mode

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

collect counter bytes

[no] collect counter { bytes | packets } [long]

Syntax Description

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 flow sampler id

[no] collect flow sampler id

Syntax Description

Syntax Description

collect Specify a non-key field

flow Flow identifying fields

sampler Sampler

id Identifier for sampler used for the flow

Command Mode

- /exec/configure/nfm-record

collect ip version

[no] collect ip version

Syntax Description

Syntax	Description
collect	Specify a non-key field
ip	IP attributes
version	IPv4 or IPv6

Command Mode

- /exec/configure/nfm-record

collect routing destination as

[no] collect routing destination as [peer]

Syntax Description

Syntax Description	
collect	Specify a non-key field
routing	Routing attributes
destination	AS destination
as	Destination AS number of origin network
peer	(Optional) Destination AS number of the peer network

Command Mode

- /exec/configure/nfm-record

collect routing forwarding-status

[no] collect routing forwarding-status

Syntax Description

Syntax Description		
	collect	Specify a non-key field
	routing	Routing attributes
	forwarding-status	Forwarding status of the packet

Command Mode

- /exec/configure/nfm-record

collect routing next-hop address ipv4

[no] collect routing next-hop address ipv4 [bgp]

Syntax Description

Syntax Description	
collect	Specify a non-key field
routing	Routing attributes
next-hop	Next hop address
address	Address
ipv4	IPv4 next hop address
bgp	(Optional) BGP next hop IPv4 address

Command Mode

- /exec/configure/nfm-record

collect routing next-hop address ipv6

[no] collect routing next-hop address ipv6 [bgp]

Syntax Description

Syntax Description	
collect	Specify a non-key field
routing	Routing attributes
next-hop	Next hop address
address	Address
ipv6	IPv6 next hop address
bgp	(Optional) BGP next hop IPv6 address

Command Mode

- /exec/configure/nfm-record

collect routing source as

[no] collect routing source as [peer]

Syntax Description

Syntax Description	
collect	Specify a non-key field
routing	Routing attributes
source	AS source
as	AS source
peer	(Optional) Source AS number of the peer network

Command Mode

- /exec/configure/nfm-record

collect timestamp sys-uptime first

[no] collect timestamp sys-uptime { first | last }

Syntax Description

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

Syntax Description

collect Specify a non-key field

transport Transport layer fields

tcp TCP layer fields

flags TCP flags

Command Mode

- /exec/configure/nfm-record

commit

commit

Syntax Description

Syntax Description

commit commit itd
session

Command Mode

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

commit

commit

Syntax Description

Syntax Description

commit Commit the current configuration session

Command Mode

- /exec/configure

commit verbose

commit verbose

Syntax Description

Syntax Description

commit Commit the current configuration session

verbose Commit the current configuration session with more details

Command Mode

- /exec/configure

compress-bitfields ipv6 multicast

[no] compress-bitfields ipv6 multicast

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
compress-bitfields	Compress bitfields for improved memory utilization
ipv6	Use for IPv6 multicast
multicast	Use compressed bitfields for M6RIB and PIM6

Command Mode

- /exec/configure

conf-offset

[no] conf-offset <offset>

Syntax Description

Syntax Description	
conf-offset	Configure Confidentiality offset
<i>offset</i>	Confidentiality offset size

Command Mode

- /exec/configure/macsec-policy

confederation identifier

[no] confederation identifier <confed-id>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
confederation	AS confederation parameters
identifier	Set routing domain confederation AS
<i>confed-id</i>	AS number

Command Mode

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

confederation peers

[no] confederation peers <confed-id>

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	confederation	AS confederation parameters
	peers	Peer ASs in BGP confederation
	<i>confed-id</i>	AS number

Command Mode

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

config-source controller

[no] config-source controller

Syntax Description

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

Syntax Description

configure Enter configuration mode

terminal (Optional) Configure the system from terminal input

Command Mode

- /exec

configure maintenance profile normal

[no] configure maintenance profile { normal-mode | maintenance-mode }

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
configure		Enter configuration mode
maintenance		maintenance profile mode
profile		maintenance profile
normal-mode		Normal mode profile
maintenance-mode		Maintenance mode profile

Command Mode

- /exec

configure private

configure private [sandbox]

Syntax Description

Syntax Description

configure Enter configuration mode

private Prototype place holder for config session phase two

sandbox (Optional) Used by the CLI sandbox

Command Mode

- /exec

configure profile

[no] configure profile <all_conf_profile_name> [type admin]

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
configure		Enter configuration mode
profile		Configure profile
<i>all_conf_profile_name</i>		Enter the name of the configure profile
type	(Optional)	config profile type
admin	(Optional)	config profile admin type

Command Mode

- /exec

configure replace

```
configure replace { <uri_local> | <uri_remote> [ source-interface <intf> | vrf <vrf-known-name> ] } [ verbose ] [ show-patch ]
```

Syntax Description

Syntax Description		
configure		Configure the box
replace		Perform a replace of the running-config
<i>uri_local</i>		Configuration file to use
<i>uri_remote</i>		Configuration file to use
source-interface	(Optional)	Select source interface
<i>intf</i>	(Optional)	
vrf	(Optional)	Display per-VRF information
verbose	(Optional)	Show the logs of operation
show-patch	(Optional)	Show the patch to be applied
<i>vrf-known-name</i>	(Optional)	Known VRF name

Command Mode

- /exec

configure session

configure session <s0>

Syntax Description

Syntax Description

configure	Enter configuration mode
session	Configure the system in a session
s0	Enter the name of the session

Command Mode

- /exec

configure sync

configure sync

Syntax Description

Syntax Description	
configure	Enter configuration mode
sync	Configure the system in config-sync mode

Command Mode

- /exec

congestion-control ecn

[no] congestion-control ecn

Syntax Description

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

Syntax Description

no	(Optional) Negate a command or set its defaults
congestion-control	Congestion Control Protocol
random-detect	Enable WRED protocol
threshold	(Optional) Threshold
minimum-threshold	Minimum Threshold
maximum-threshold	Maximum Threshold
burst-optimized	(Optional) Threshold optimized for bursty traffic
mesh-optimized	(Optional) Threshold optimized for mesh traffic
drop-probability	Drop Probability at Maximum Threshold
<i>drop-prob</i>	Drop Probability Value
packets	(Optional) Packets
bytes	(Optional) Bytes
kbytes	(Optional) Kilo Bytes
mbytes	(Optional) Mega Bytes
packets1	(Optional) Packets
bytes1	(Optional) Bytes
kbytes1	(Optional) Kilo Bytes
mbytes1	(Optional) Mega Bytes
ecn	(Optional) Explicit Congestion Notification

Command Mode

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

congestion-control random-detect forward-nonecn

[no] congestion-control random-detect forward-nonecn

Syntax Description

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

Syntax	Description
no	(Optional) Negate the command
congestion-control	Congestion control protocol
random-detect	Enable WRED protocol
global-buffer	global buffer threshold
minimum-threshold	Specify minimum threshold for WRED
<i>min-thresh</i>	Minimum threshold value
maximum-threshold	Specify maximum threshold for WRED
<i>max-thresh</i>	Maximum threshold value
packets	(Optional) Packets
bytes	(Optional) Bytes
kbytes	(Optional) Kilo bytes
mbytes	(Optional) Mega bytes
packets1	(Optional) Packets
bytes1	(Optional) Bytes
kbytes1	(Optional) Kilo Bytes
mbytes1	(Optional) Mega Bytes

Command Mode

- /exec/configure

congestion-control tail-drop

[no] congestion-control tail-drop [threshold { burst-optimized | mesh-optimized }]

Syntax Description

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

Syntax Description

no (Optional) Negate a command or set its defaults

connect Connect to remote host

Command Mode

- /exec/configure/vmt-conn

continue

{ continue <value> } | { no continue [<value>] }

Syntax Description

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

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

Syntax Description

control-plane Enter to control-plane sub-mode

Command Mode

- /exec/configure

control vlan

[no] control vlan <vlan-id>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
control	ITD control vlan
vlan	control vlan
<i>vlan-id</i>	Control vlan id

Command Mode

- /exec/configure/itd-inout

control vlan

[no] control vlan <vlan-id>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
control	ITD control vlan
vlan	control vlan
<i>vlan-id</i>	Control vlan id

Command Mode

- /exec/configure/itd-inout

controller ipv4

```
[no] controller ipv4 <ipv4> [ port <tcpport> ] [ vrf { <vrf-name> | <vrf-known-name> } ] [ security { none |
tls } ]
```

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
controller		OpenFlow controller to use
ipv4		Controller ipv4 address (A.B.C.D)
<i>ipv4</i>		IP address (A.B.C.D)
port	(Optional)	Controller TCP port (default is 6653)
<i>tcpport</i>	(Optional)	TCP port number (default port is 6653)
vrf	(Optional)	Controller VRF
<i>vrf-name</i>	(Optional)	VRF name
<i>vrf-known-name</i>	(Optional)	Known VRF name
security	(Optional)	Set security protocol
none	(Optional)	Disable security protocol
tls	(Optional)	Enable security protocol

Command Mode

- /exec/configure/openflow/switch

controller ipv4

```
[no] controller ipv4 <ipv4> [ port <tcpport> ] [ vrf { <vrf-name> | <vrf-known-name> } ] [ security { none |
tls } ]
```

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
controller		OpenFlow controller to use
ipv4		Controller ipv4 address (A.B.C.D)
<i>ipv4</i>		IP address (A.B.C.D)
port	(Optional)	Controller TCP port (default is 6653)
<i>tcpport</i>	(Optional)	TCP port number (default port is 6653)
vrf	(Optional)	Controller VRF
<i>vrf-name</i>	(Optional)	VRF name
<i>vrf-known-name</i>	(Optional)	Known VRF name
security	(Optional)	Set security protocol
none	(Optional)	Disable security protocol
tls	(Optional)	Enable security protocol

Command Mode

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

controller type l2-vxlan identifier

[no] controller type l2-vxlan identifier <controller-id>

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
controller		Controller command
type		Controller type
l2-vxlan		l2-vxlan
identifier		Controller identifier
<i>controller-id</i>		Controller id value

Command Mode

- /exec/configure

copp clear policy pps

copp clear policy pps

Syntax Description

Syntax Description

copp copp

clear clear

policy policy

pps pps

Command Mode

- /exec/configure

copp copy profile prefix

copp copy profile <profile_type> { prefix | suffix } <user_string>

Syntax Description

Syntax Description		
copp		Control-Plane Policing
copy		Make a copy of the CoPP Profile
profile		CoPP Profile
<i>profile_type</i>		CoPP Profile Types
prefix		prefix for the copied policy
suffix		suffix for the copied policy
<i>user_string</i>		Enter prefix/suffix for the copied policy

Command Mode

- /exec

copp distributed-policing enable

[no] copp distributed-policing enable

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
copp	Control-Plane Policing	
distributed-policing	distributed policer	
enable	enable distributed policing	

Command Mode

- /exec/configure

copp profile

[no] copp profile [<profile_type>]

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
copp		Control-Plane Policing
profile		CoPP Profile
<i>profile_type</i>	(Optional)	CoPP Profile Types

Command Mode

- /exec/configure

copp profile

copp profile <profile_type>

Syntax Description

Syntax Description

copp	Control-Plane Policing
------	------------------------

profile	CoPP Profile
---------	--------------

<i>profile_type</i>	CoPP Profile Types
---------------------	--------------------

Command Mode

- /exec/configure

copp rate-limit disable

[no] copp rate-limit disable

Syntax Description

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> ] } } | { <src_remote>
{ <dest_local> | running-config [ echo-commands ] [ stop-at-first-failure ] | startup-config } } [ source-interface
<intf> | vrf <vrf-known-name> ] | { <src_core> { <dest_remote> [ source-interface <intf> | vrf
<vrf-known-name> ] } } | { running-config-src { <dest_remote> [ source-interface <intf> | vrf
<vrf-known-name> ] } } | { startup-config-src { <dest_remote> [ source-interface <intf> | vrf
<vrf-known-name> ] } } }
```

Syntax Description

Syntax Description

copy	Copy from one file to another
<i>src_local</i>	Select source filesystem
<i>src_core</i>	Select source filesystem
<i>dest_local</i>	Select destination filesystem
<i>dest_remote</i>	Select destination filesystem
<i>src_remote</i>	Select source filesystem
vrf	(Optional) Display per-VRF information
source-interface	(Optional) Select source interface
<i>intf</i>	(Optional)
<i>vrf-known-name</i>	(Optional) Known VRF name
running-config	Copy from source to running configuration
running-config-src	Copy running configuration to destination
startup-config	Copy from source to startup configuration
startup-config-src	Copy startup configuration to destination
echo-commands	(Optional) Echo the commands before applying them (to correlate errors)
stop-at-first-failure	(Optional) Stop at first error

Command Mode

- /exec

Usage Guidelines



Note When a source or destination URI contains a reserved character such as '!' or '#', the reserved character must be entered as its percent-encoded ascii value, as described in RFC 3986. For example, the URI `!pa##word@example.com` must be entered as `%21pa%23%23word@example.com`. In this example, the reserved characters '!' (ascii 0x21) and '#' (ascii 0x23) are represented as '%21' and '%23'.

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

Syntax Description

copy	Copy from one file to another
<i>src_local</i>	Select source filesystem
<i>src_core</i>	Select source filesystem
<i>dest_local</i>	Select destination filesystem
<i>dest_local_core</i>	Select destination filesystem
<i>dest_local_config</i>	Select destination filesystem
running-config	Copy from source to running configuration
running-config-src	Copy running configuration to destination
startup-config	Copy from source to startup configuration
startup-config-src	Copy startup configuration to destination
scheduled-config	Schedule configuration at the specified source to be applied at next switch reload
switch-profile-cfg	Copy switch profile running configuration to destination
echo-commands	(Optional) Echo the commands before applying them (to correlate errors)
stop-at-first-failure	(Optional) Stop at first error
fabric	(Optional) Copy from source to fabric startup configuration

Command Mode

- /exec

Usage Guidelines



Note When a source or destination URI contains a reserved character such as '!' or '#', the reserved character must be entered as its percent-encoded ascii value, as described in RFC 3986. For example, the URI `!pa##word@example.com` must be entered as `%21pa%23%23word@example.com`. In this example, the reserved characters '!' (ascii 0x21) and '#' (ascii 0x23) are represented as '%21' and '%23'.

copy licenses

copy licenses <uri0>

Syntax Description

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> ]
```

Syntax Description

Syntax Description

copy	Copy from one file to another
recursive	Recursively copy files and folders
<i>source</i>	Select source filesystem
<i>destination</i>	Select destination filesystem
vrf	(Optional) Display per-VRF information
<i>vrf-known-name</i>	(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
```

Syntax Description

Syntax Description		
copy		Copy from one file to another
<i>dest_remote</i>		Select destination filesystem
vrf	(Optional)	Display per-VRF information
<i>vrf-known-name</i>	(Optional)	Known VRF name
source-interface	(Optional)	Select source interface
<i>intf</i>	(Optional)	
running-config-src		Copy running configuration to destination
startup-config-src		Copy startup configuration to destination
vdc-all		Perform copy for all vdc's

Command Mode

- /exec

Usage Guidelines



Note When a source or destination URI contains a reserved character such as '!' or '#', the reserved character must be entered as its percent-encoded ascii value, as described in RFC 3986. For example, the URI !pa##word@example.com must be entered as %21pa%23%23word@example.com. In this example, the reserved characters '!' (ascii 0x21) and '#' (ascii 0x23) are represented as '%21' and '%23'.

copy vdc-all

```
copy { running-config-src { startup-config | <dest_local_config> } | startup-config-src { running-config | <dest_local_config> } } vdc-all
```

Syntax Description

Syntax Description		
copy		Copy from one file to another
<i>dest_local_config</i>		Select destination filesystem
running-config-src		Copy running configuration to destination
startup-config		Copy from source to startup configuration
running-config		Copy from source to running configuration
startup-config-src		Copy startup configuration to destination
vdc-all		Perform copy for all vdc

Command Mode

- /exec

Usage Guidelines



Note When a source or destination URI contains a reserved character such as '!' or '#', the reserved character must be entered as its percent-encoded ascii value, as described in RFC 3986. For example, the URI `!pa##word@example.com` must be entered as `%21pa%23%23word@example.com`. In this example, the reserved characters '!' (ascii 0x21) and '#' (ascii 0x23) are represented as '%21' and '%23'.

core-on-no-memory

[no] core-on-no-memory

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	core-on-no-memory	Generate core dump on memory allocation failure

Command Mode

- /exec/configure/router-ospf

core-on-no-memory

[no] core-on-no-memory

Syntax Description

Syntax Description

no (Optional) Negate a command or set its defaults

core-on-no-memory Generate core dump on memory allocation failure

Command Mode

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

cost

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

Syntax Description

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

Syntax Description

| Pipe command output to filter

count Count number of lines

Command Mode

- /output

counter name value op

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

Syntax Description

Syntax Description		
counter		Specify the name of the counter
name		Specify the name of the counter
<i>counter-name</i>		Name of the counter
value		Specify the value to be applied to the counter
<i>counter-value</i>		Enter the value
op		Specify the operator to be applied
<i>op-val</i>		Enter the value of the operator

Command Mode

- /exec

cpu threshold

[no] cpu threshold [rising <risingth> falling <fallingth> interval <seconds>]

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
cpu		CPU resource
threshold		Threshold settings
rising	(Optional)	Rising threshold setting
<i>risingth</i>	(Optional)	Rising threshold in percentage
falling	(Optional)	Falling threshold setting
<i>fallingth</i>	(Optional)	Falling threshold in percentage
interval	(Optional)	Observation interval setting
<i>seconds</i>	(Optional)	Observation interval in seconds

Command Mode

- /exec/configure/onep

cpu threshold rising falling interval

cpu threshold rising <risingth> falling <fallingth> interval <seconds>

Syntax Description

Syntax Description	
cpu	CPU resource
threshold	Threshold settings
rising	Rising threshold setting
<i>risingth</i>	Rising threshold in percentage
falling	Falling threshold setting
<i>fallingth</i>	Falling threshold in percentage
interval	Observation interval setting
<i>seconds</i>	Observation interval in seconds

Command Mode

- /exec/configure/onep

crypto ca authenticate

[no] crypto ca authenticate <s0> [accept]

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
crypto		Set crypto settings
ca		Configure certificate authority related information
authenticate		Authenticate the certificate authority certificate
s0		trustpoint label
accept	(Optional)	accept the certificate automatically

Command Mode

- /exec/configure

crypto ca crl request

[no] crypto ca crl request <s0> <uri0>

Syntax Description

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

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

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

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

Syntax Description

<code>crypto</code>	Set crypto settings
<code>ca</code>	Configure certificate authority related information
<code>import</code>	import the certificate or key
<code>s0</code>	trustpoint label
<code>pkcs12</code>	source file url
<code>uri0</code>	source file url
<code>s1</code>	passphrase to decrypt the private key

Command Mode

- /exec/configure

crypto ca lookup

[no] crypto ca lookup { remote | local | both }

Syntax Description

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

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 test verify

[no] crypto ca test verify <uri0>

Syntax Description

Syntax Description	no (Optional) Negate a command or set its defaults
	crypto Set crypto settings
	ca Configure certificate authority related information
	test certificate tests
	verify verify the certificate
	uri0 Specify certificate file name

Command Mode

- /exec/configure

crypto ca trustpoint

[no] crypto ca trustpoint <s0>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
crypto	Set crypto settings
ca	Configure certificate authority related information
trustpoint	Configure trustpoint certificate authority
s0	trustpoint label

Command Mode

- /exec/configure

crypto cert ssh-authorize

```
[no] crypto cert ssh-authorize [ <s0> map <s1> [ <s2> ] | default map <s3> ]
```

Syntax Description

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

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

Syntax Description	
no	(Optional) Negate a command or set its defaults
crypto	Set crypto settings
key	Configure key pair related information
generate	Configure key pair generation related information
rsa	Configure rsa key pair generation related information
exportable	(Optional) key-pair is exportable
modulus	(Optional) key-pair size
<i>i0</i>	(Optional) key-pair size
label	(Optional) key-pair label
<i>s0</i>	(Optional) key-pair label
exportable	(Optional) key-pair is exportable
modulus1	(Optional) key-pair size
<i>i1</i>	(Optional) key-pair size
modulus2	(Optional) key-pair size
<i>i2</i>	(Optional) key-pair size

Command Mode

- /exec/configure

crypto key param rsa label modulus

[no] crypto key param rsa label <s0> modulus <i0> [exportable]

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
crypto	Set crypto settings	
key	Configure key pair related information	
param	Configure key pair related information	
rsa	Configure rsa key pair related information	
label	key-pair label	
s0	key-pair label	
modulus	key-pair size	
i0	key-pair size	
exportable	(Optional) key-pair is exportable	

Command Mode

- /exec/configure

crypto key zeroize rsa

[no] crypto key zeroize rsa <s0>

Syntax Description

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

Syntax Description	no	(Optional) Negate a command or set its defaults
	cryptographic-algorithm	Set cryptographic-algorithm to be used
	<i>algo</i>	Cryptographic-algorithm

Command Mode

- /exec/configure/keychain-key

customer-id

{ customer-id <s0> | no customer-id }

Syntax Description

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

Syntax Description

	Pipe command output to filter
cut	Print selected parts of lines.
-b	output only these bytes
-c	output only these characters
-d	specify other field delimiter (default is TAB).
-f	output only these fields also print any line that contains no delimiter character, unless the -s option is specified
-s	do not print lines not containing delimiters
<i>bytes</i>	{n n-n m -m} N-th byte, N to end of line, N to M, start of line to N
<i>chars</i>	{n n-n m -m} N-th char, N to end of line, N to M, start of line to N
<i>fields</i>	{n n-n m -m} N-th field, N to end of line, N to M, start of line to N
<i>delim</i>	field separator char, TAB is default, use ' ' for space
-help	print help of underlying unix command

Command Mode

- /output



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dampen-igp-metric

dampen-igp-metric <sec> | no dampen-igp-metric

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
dampen-igp-metric	Dampen IGP metric-related changes
<i>sec</i>	Time interval in seconds

Command Mode

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

dampening

```
[no] dampening [ { <half-life> <reuse-limit> <suppress-limit> <max-suppress-time> } | { route-map
<rmap-name> } ]
```

Syntax Description

Syntax Description		
<code>no</code>	(Optional)	Negate a command or set its defaults
<code>dampening</code>		Configure route flap dampening
<code>half-life</code>	(Optional)	Decay half life
<code>reuse-limit</code>	(Optional)	Value to start reusing a route
<code>suppress-limit</code>	(Optional)	Value to start suppressing a route
<code>max-suppress-time</code>	(Optional)	Maximum suppress time for stable route
<code>route-map</code>	(Optional)	Apply route-map to specify dampening criteria
<code>rmap-name</code>	(Optional)	Route-map name

Command Mode

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

dampening

```
[no] dampening [ { <half-life> <reuse-limit> <suppress-limit> <max-suppress-time> } | { route-map
<rmap-name> } ]
```

Syntax Description

Syntax Description		
<code>no</code>	(Optional)	Negate a command or set its defaults
<code>dampening</code>		Configure route flap dampening
<code>half-life</code>	(Optional)	Decay half life
<code>reuse-limit</code>	(Optional)	Value to start reusing a route
<code>suppress-limit</code>	(Optional)	Value to start suppressing a route
<code>max-suppress-time</code>	(Optional)	Maximum suppress time for stable route
<code>route-map</code>	(Optional)	Apply route-map to specify dampening criteria
<code>rmap-name</code>	(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

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

database-mapping

```
{ [ no ] database-mapping { <eid-prefix> | <eid-prefix6> } { redistribute | { { <locator> | <locator6> } priority
<priority> weight <weight> } } }
```

Syntax Description

Syntax Description		
<code>no</code>	(Optional) Negate a command or set its defaults	
<code>database-mapping</code>	Configure EID-prefix and locator-set for dynamic-EID	
<code>eid-prefix</code>	IP EID-prefix for RLOC static mapping	
<code>locator</code>	IP address of LISP-VM routers	
<code>priority</code>	Configures which Locators from a set are preferred	
<code>priority</code>	Lower priority Locator takes preference	
<code>weight</code>	Traffic load-spreading among Locators	
<code>weight</code>	Specified in a percentage from 0 to 100	
<code>redistribute</code>	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

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

databits

[no] databits <i0>

Syntax Description

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

datapath-id

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

Syntax Description

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

Command Mode

- /exec/configure/openflow/switch

datapath-id

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

Syntax Description

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

Command Mode

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

datapath transport mts

[no] datapath transport mts

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	datapath	One Platform datapath
	transport	transport for datapath
	mts	mts

Command Mode

- /exec/configure/onep

db-jid

[no] db-jid <jid> [key-type <key-type>]

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
db-jid	Jabber ID of database
<i>jid</i>	Enter Jabber ID of database
key-type	(Optional) Query key type for this database
<i>key-type</i>	(Optional)

Command Mode

- /exec/configure/fabric-db/server-xmpp

db-security user password

```
[no] db-security user <user> password { 0 <clear> | 7 <encrypted> | <password> } [ shared-secret { 10 <clear> | 7 <encrypted> | <secret> } ]
```

Syntax Description

Syntax Description

no	(Optional) Negate a command or set its defaults
db-security	Database Security
user	User ID
<i>user</i>	Enter user ID
password	Password
0	Password that follows should be in clear text
<i>clear</i>	Password in clear text
7	Password that follows should be in encrypted text
<i>encrypted</i>	Encrypted password
<i>password</i>	Enter password in clear text
shared-secret	(Optional) Shared-secret
10	(Optional) Indicates that password that follows should be in clear text
<i>clear</i>	(Optional) Password in clear text
7	(Optional) Password that follows should be in encrypted text
<i>encrypted</i>	(Optional) Encrypted password
<i>secret</i>	(Optional) Enter shared-secret in clear text

Command Mode

- /exec/configure/fabric-db/server-ldap

db-table

[no] db-table <tablename> [key-type <key-type>]

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
db-table	Table name to search
<i>tablename</i>	Enter table name to search
key-type	(Optional) Query key type for this table
<i>key-type</i>	(Optional)

Command Mode

- /exec/configure/fabric-db/server-ldap

dead-interval

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

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	dead-interval	Dead interval
	<i>interval</i>	(seconds)

Command Mode

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

dead-interval

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

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	dead-interval	Dead interval
	<i>interval</i>	(seconds)

Command Mode

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

dead-interval

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

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	dead-interval	Dead interval
	<i>interval</i>	(seconds)

Command Mode

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

deadtime

[no] deadtime <i0>

Syntax Description

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

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

Command Mode

- /exec/configure/ldap

deadtime

[no] deadtime <i0>

Syntax Description

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+

dec

dec <expr>

Syntax Description

Syntax Description

dec calculator with results in decimal format

expr the expression to compute (integer arithmetics)

Command Mode

- /exec

default-information originate

[no] default-information originate

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	default-information	Control distribution of default information
	originate	Distribute a default route

Command Mode

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

default-information originate

[no] default-information originate [always] [route-map <policy-name>]

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
default-information	Control distribution of default route
originate	Distribute a default route
always	(Optional) Always advertise default route
route-map	(Optional) Policy to control distribution of default route
<i>policy-name</i>	(Optional) Route-map name

Command Mode

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

default-information originate

[no] default-information originate [always] [route-map <map-name>]

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
default-information	RIP control	distribution of default route
originate	RIP distribute	a default route
always	(Optional)	RIP always advertise default route
route-map	(Optional)	Policy to constrain redistribution
<i>map-name</i>	(Optional)	Route-map name

Command Mode

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

default-information originate

[no] default-information originate [always] [route-map <map>]

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
default-information		Control origination of a default route
originate		Originate a default route
always	(Optional)	Always advertise default route
route-map	(Optional)	Use a route-map for default route metrics
<i>map</i>	(Optional)	Route-map name

Command Mode

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

default-information originate

[no] default-information originate [always] [route-map <map-name>]

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
default-information		Control origination of a default route
originate		Originate a default route
always	(Optional)	Always advertise default route
route-map	(Optional)	Route-map to announce default routes
<i>map-name</i>	(Optional)	A 'routing-rules' route-map name

Command Mode

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

default-information originate

[no] default-information originate [always] [route-map <policy-name>]

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
default-information		Control distribution of default route
originate		Distribute a default route
always	(Optional)	Always advertise default route
route-map	(Optional)	Policy to control distribution of default route
<i>policy-name</i>	(Optional)	Route-map name

Command Mode

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

default-information originate always rd route-target

```
{ default-information originate always rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } route-target
{ <ext-comm-rt-aa2nn4> | <ext-comm-rt-aa4nn2> } } | { no default-information originate always }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
default-information		Control distribution of default information
originate		Distribute a default route
always		Always advertise default route
rd		VPN Route Distinguisher
<i>ext-comm-rd-aa4nn2</i>		VPN route distinguisher in aa4:nn or ip:nn format
<i>ext-comm-rd-aa2nn4</i>		VPN route distinguisher in aa:nn format
route-target		Specify Target VPN Extended Communities
<i>ext-comm-rt-aa4nn2</i>		RT extcommunity in aa4:nn or ip:nn format
<i>ext-comm-rt-aa2nn4</i>		RT extcommunity in aa:nn format

Command Mode

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

default-metric

[no] default-metric <metric>

Syntax Description

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-metric

```
{ default-metric <cost> } | { no default-metric [ <cost> ] }
```

Syntax Description

Syntax Description	<code>no</code>	Negate a command or set its defaults
	<code>default-metric</code>	Specify default metric for redistributed routes
	<code>cost</code>	Metric value

Command Mode

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

default-metric

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

Syntax Description

Syntax	Description
no	Negate a command or set its defaults
default-metric	RIP default metric
<i>metric</i>	RIP metric value

Command Mode

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

default-metric

```
{ { default-metric <bw> <delay> <rel> <load> <mtu> } | { no default-metric [ <bw> <delay> <rel> <load> <mtu> ] } }
```

Syntax Description

Syntax Description		
<code>no</code>		Negate a command or set its defaults
<code>default-metric</code>		Set metric of redistributed routes
<code>bw</code>		Bandwidth in Kbits per second
<code>delay</code>		Delay metric
<code>rel</code>		Reliability metric where 255 is 100% reliable
<code>load</code>		Effective bandwidth metric (Loading) where 255 is 100% loaded
<code>mtu</code>		Maximum Transmission Unit metric of the path

Command Mode

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

default-metric

```
{ default-metric <cost> } | { no default-metric [ <cost> ] }
```

Syntax Description

Syntax Description	
<code>no</code>	Negate a command or set its defaults
<code>default-metric</code>	Specify default metric for redistributed routes
<code>cost</code>	Metric value

Command Mode

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

default-miss

default-miss { continue-drop | continue-normal | continue-controller | drop | normal | controller } | no default-miss

Syntax Description

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

Syntax Description	
no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
default-originate	Originate a default toward this peer
route-map	(Optional) Route-map to specify criteria for originating default
<i>rmap-name</i>	(Optional) Route-map name

Command Mode

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

define

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

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	define	Define a parameter
	<i>paramname</i>	Enter the name of the parameter
	<i>paramtype</i>	(Optional) param type
	<i>paramdesc</i>	(Optional) Enter the parameter description

Command Mode

- /exec/configure/param-list

delay

delay <delay_val> | no delay [<delay_val>]

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
delay	Specify interface throughput delay
<i>delay_val</i>	Throughput delay (tens of microseconds)

Command Mode

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

delay

delay <delay_val> | no delay [<delay_val>]

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
delay		Specify interface throughput delay
<i>delay_val</i>		Throughput delay (tens of microseconds)

Command Mode

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

delay

delay <microseconds> | no delay

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
delay	Specify interface throughput delay
<i>microseconds</i>	Throughput delay (tens of microseconds)

Command Mode

- /exec/configure/if-vlan-common

delay peer-link

delay peer-link <time> | no delay peer-link

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
delay		Peer-link bringup delay
peer-link		Delay peer-link bringup
<i>time</i>		Delay in bringing up the peer-link (in seconds)

Command Mode

- /exec/configure/vpc-domain

delay restore

delay restore <time-out> | no delay restore

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
delay	Initialization delay
restore	Delay after restoring peer-link
<i>time-out</i>	Delay in bringing up the vPC links (in seconds)

Command Mode

- /exec/configure/vpc-domain

delay restore interface-vlan

delay restore interface-vlan <time-out> | no delay restore interface-vlan

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
delay		Initialization delay
restore		Delay after restoring peer-link
interface-vlan		Delay in bringing-up interface-vlan
<i>time-out</i>		Delay in bringing up the interface-vlan (in seconds)

Command Mode

- /exec/configure/vpc-domain

delay restore orphan-port

delay restore orphan-port <delay_time> | no delay restore orphan-port

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
delay		Initialization delay
restore		Delay after restoring peer-link
orphan-port		Configure vPC orphan-port delay bring-up timer
<i>delay_time</i>		Specify delay time in seconds

Command Mode

- /exec/configure/vpc-domain

delay up

delay { { up <up_delay> [down <down_delay>] } | { down <down_delay> [up <up_delay>] } } | no delay

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
delay		Tracking delay
up		Delay up change notification
<i>up_delay</i>		Seconds to delay
down		(Optional) Delay down change notification
<i>down_delay</i>		(Optional) Seconds to delay

Command Mode

- /exec/configure/track /exec/configure/tr-list-bool /exec/configure/tr-list-thrp /exec/configure/tr-list-thrw

delete

delete { <uri0> | <uri1> | <uri2> } [no-prompt]

Syntax Description

Syntax Description	
delete	delete a file or directory
<i>uri0</i>	Delete a file or directory
<i>uri1</i>	Delete a file or directory on expansion flash
<i>uri2</i>	Directory or filename on logflash
no-prompt	(Optional) Do not prompt for multiple deletion of files

Command Mode

- /exec

delete ca-certificate

delete ca-certificate

Syntax Description

Syntax Description		
	delete	Delete the certificates
	ca-certificate	Delete the ca certificates

Command Mode

- /exec/configure/trustpoint

delete certificate

delete certificate [force]

Syntax Description

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

Syntax Description

~~delete~~ Delete the certificates

crl Delete the CRL

Command Mode

- /exec/configure/trustpoint

demand-circuit

[no] demand-circuit

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	demand-circuit	OSPF Demand circuit

Command Mode

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

description

description <describe> | { no | default } description [<describe>]

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
default	Inherit values from a peer template
description	Neighbor specific description
<i>describe</i>	Upto 80 characters describing this neighbor

Command Mode

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

description

description <line> | no description

Syntax Description

Syntax	Description
no	Negate a command or set its defaults
description	Add a description for the role
<i>line</i>	Enter the description string(can include spaces)

Command Mode

- /exec/configure/role

description

{ description <line> | no description }

Syntax Description

Syntax Description	<i>no</i>	Negate a command or set its defaults
	<i>description</i>	Description of the route-map
	<i>line</i>	Route-map description string

Command Mode

- /exec/configure/route-map

description

description <desc_line> | no description [<desc_line>]

Syntax Description

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

Syntax Description	no	Negate a command or set its defaults
	description	Class-Map description
	<i>desc-str</i>	Description of this class-map (up to 200 characters)

Command Mode

- /exec/configure/class-map

description

[no] description <desc-str>

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	description	Class-Map description
	<i>desc-str</i>	Description of this class-map (up to 200 characters)

Command Mode

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

description

```
{ description <desc-str> | no description [ <desc-str> ] }
```

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	description	Table-Map description
	<i>desc-str</i>	Description of this table-map (up to 200 characters)

Command Mode

- /exec/configure/table-map

description

```
{ description <desc-str> | no description [ <desc-str> ] }
```

Syntax Description

Syntax Description	<code>no</code>	Negate a command or set its defaults
	<code>description</code>	Policy-Map description
	<i>desc-str</i>	Description of this policy-map (up to 200 characters)

Command Mode

- /exec/configure/policy-map

description

```
{ description <desc-str> | no description [ <desc-str> ] }
```

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	description	Policy-Map description
	<i>desc-str</i>	Description of this policy-map (up to 200 characters)

Command Mode

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

description

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

Syntax Description

Syntax Description	<i>no</i>	Negate a command or set its defaults
	<i>description</i>	Group description
	<i>desc</i>	(Optional) Up to 80 characters describing this group

Command Mode

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

description

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

Syntax Description

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

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

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

Syntax Description

`description` Provide a description for this Flow Sampler

line Sampler description string (63 characters maximum)

Command Mode

- /exec/configure/nfm-sampler

description

description [port-profile] <desc_line> | no description [port-profile] [<desc_line>]

Syntax Description

Syntax Description

no Negate a command or set its defaults

description Enter port-profile description of maximum 80 characters

port-profile (Optional) Hack for conf-sync

desc_line Enter port-profile description of maximum 80 characters

Command Mode

- /exec/configure/port-profile

description

description <desc_line> | no description [<desc_line>]

Syntax Description

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

description <desc_line> | no description [<desc_line>]

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	description	Enter description of maximum 254 characters
	<i>desc_line</i>	Description of maximum 254 characters

Command Mode

- /exec/configure/if-mgmt-ether

description

description <desc_line> | no description [<desc_line>]

Syntax Description

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

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

```
{ description <desc-str> | no description [ <desc-str> ] }
```

Syntax Description

Syntax Description	<code>no</code>	Negate a command or set its defaults
	<code>description</code>	Class-Map description
	<code>desc-str</code>	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

Syntax Description	
no	Negate a command or set its defaults
description	Policy-Map description
<i>desc-str</i>	Description of this policy-map (up to 200 characters)

Command Mode

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

description

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

Syntax Description

Syntax Description	description	description for this profile
---------------------------	-------------	------------------------------

<i>text</i>	description
-------------	-------------

Command Mode

- /exec/configure/dot1x-cred

description

{ description <line> } | { no description }

Syntax Description

Syntax Description	<i>no</i>	Negate a command or set its defaults
	<i>description</i>	Description of the VRF
	<i>line</i>	VRF description string

Command Mode

- /exec/configure/vrf

description

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

Syntax Description

Syntax	Description
no	Negate a command or set its defaults
description	Virtual service description
<i>description_text</i>	Description of this virtual service

Command Mode

- /exec/configure/virt-serv

description

[no] description <description>

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
---------------------------	----	---

description	Configure description for the policy
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<i>description</i>	Description for the policy
--------------------	----------------------------

Command Mode

- /exec/configure/event-manager-applet

description

[no] description

Syntax Description

Syntax	Description
no	Negate a command or set its defaults
description	Configure description for the policy

Command Mode

- /exec/configure/event-manager-applet

description

description <desc_line> | no description

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	description	Interface specific description
	<i>desc_line</i>	Up to 255 characters describing this interface

Command Mode

- /exec/configure/if-vlan-common

description

```
{ [ no ] description <descrip-string> }
```

Syntax Description

Syntax	Description
no	(Optional) Negate a command or set its defaults
description	Provide a description string for the LISP site
<i>descrip-string</i>	Description string

Command Mode

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

description

{ description <descr> } | { no description }

Syntax Description

Syntax Description	<code>description</code> Configure description of the profile
	<code>descr</code> Description of maximum 64 characters

Command Mode

- /exec/configure/configngoamprofile

description description

[no] description | description <desc>

Syntax Description

Syntax Description	<i>no</i>	(Optional) Negate a command or set its defaults
	<i>description</i>	Pathway description
	<i>desc</i>	Up to 80 characters describing this pathway

Command Mode

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

dest-ipaddr

```
{ { no | default } dest-ipaddr | dest-ipaddr { <ip-address> | <hostname> } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
default		Set a command to its defaults
dest-ipaddr		Destination ip address
<i>ip-address</i>		IP address, broadcast disallowed
<i>hostname</i>		IP Hostname, broadcast disallowed

Command Mode

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

dest-port

{ { no | default } dest-port | dest-port <port> }

Syntax Description

Syntax Description

no

default Set a command to its defaults

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

destination-group

[no] destination-group <dgrp-id>

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	destination-group	Create destination group
	<i>dgrp-id</i>	Identifier

Command Mode

- /exec/configure/telemetry

destination-profile

[no] destination-profile <s0>

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	destination-profile	Configure destination profiles
	s0	User defined destination profile name

Command Mode

- /exec/configure/callhome

destination-profile CiscoTAC-1 alert-group

[no] destination-profile CiscoTAC-1 alert-group { All | Configuration | Diagnostic | EEM | Cisco-TAC | Environmental | Inventory | License | Linecard-Hardware | Supervisor-Hardware | Syslog-group-port | System | Test }

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
destination-profile		Configure destination profiles
CiscoTAC-1		Configure destination profile for XML message
alert-group		Add alert group
All		This alert group consists of all of the callhome messages
Cisco-TAC		Events which are meant for Cisco TAC only
Environmental		Power,fan,temperature related events
Inventory		Inventory status events
License		Events related to licensing
Linecard-Hardware		Linecard related events
Supervisor-Hardware		Supervisor related events
Syslog-group-port		Events related to syslog messages filed by port manager
System		Software related events
Test		User generated test events
Configuration		Events related to Configuration
Diagnostic		Events related to Diagnostic
EEM		EEM events

Command Mode

- /exec/configure/callhome

destination-profile CiscoTAC-1 email-addr

[no] destination-profile CiscoTAC-1 email-addr <s0>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
destination-profile	Configure destination profiles
CiscoTAC-1	Configure destination profile for XML message
email-addr	Add email addr
s0	Provide email address, example: jdow@xyz.com

Command Mode

- /exec/configure/callhome

destination-profile CiscoTAC-1 http

[no] destination-profile CiscoTAC-1 http <s0>

Syntax Description

Syntax Description

no	(Optional) Negate a command or set its defaults
destination-profile	Configure destination profiles
CiscoTAC-1	Configure destination profile for XML message
http	Add http or https url
s0	Provide http or https url, example1: http://site.com/services/callserv example2: https://site2.com/serv/CALL

Command Mode

- /exec/configure/callhome

destination-profile CiscoTAC-1 message-level

destination-profile CiscoTAC-1 message-level <i0>

Syntax Description

Syntax Description

destination-profile Configure destination profiles

CiscoTAC-1 Configure destination profile for XML message

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

i0

Command Mode

- /exec/configure/callhome

destination-profile CiscoTAC-1 message-size

```
destination-profile CiscoTAC-1 message-size <i0>
```

Syntax Description

Syntax Description

destination-profile	Configure destination profiles
CiscoTAC-1	Configure destination profile for XML message
message-size	Configure maximum message size (default 5000000)
<i>i0</i>	Provide maximum possible message size

Command Mode

- /exec/configure/callhome

destination-profile CiscoTAC-1 transport-method email

[no] destination-profile CiscoTAC-1 transport-method email

Syntax Description

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

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

Syntax Description		
no	(Optional)	Negate a command or set its defaults
destination-profile		Configure destination profiles
s0		User defined destination profile name
alert-group		Add alert group
All		This alert group consists of all of the callhome messages
Cisco-TAC		Events which are meant for Cisco TAC only
Environmental		Power, fan, temperature related events
Inventory		Inventory status events
License		Events related to licensing
Linecard-Hardware		Linecard related events
Supervisor-Hardware		Supervisor related events
Syslog-group-port		Events related to syslog messages filed by port manager
System		Software related events
Test		User generated test events
Configuration		Events related to Configuration
Diagnostic		Events related to Diagnostic
EEM		EEM events

Command Mode

- /exec/configure/callhome

destination-profile email-addr

[no] destination-profile <s0> email-addr <s1>

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	destination-profile	Configure destination profiles
	s0	User defined destination profile name
	email-addr	Add email addr
	s1	Provide email address, example: jdow@xyz.com

Command Mode

- /exec/configure/callhome

destination-profile format

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

Syntax Description

Syntax Description	
destination-profile	Configure destination profiles
<i>s0</i>	User defined destination profile name
format	Callhome message format (default XML)
full-txt	Plain text message format
short-txt	Short text message format
XML	XML message format

Command Mode

- /exec/configure/callhome

destination-profile full-txt-destination alert-group

[no] destination-profile full-txt-destination alert-group { All | Configuration | Diagnostic | EEM | Cisco-TAC | Environmental | Inventory | License | Linecard-Hardware | Supervisor-Hardware | Syslog-group-port | System | Test }

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
destination-profile	Configure destination profiles
full-txt-destination	Configure destination profile for plain txt message
alert-group	Add alert group
All	This alert group consists of all of the callhome messages
Cisco-TAC	Events which are meant for Cisco TAC only
Environmental	Power,fan,temperature related events
Inventory	Inventory status events
License	Events related to licensing
Linecard-Hardware	Linecard related events
Supervisor-Hardware	Supervisor related events
Syslog-group-port	Events related to syslog messages filed by port manager
System	Software related events
Test	User generated test events
Configuration	Events related to Configuration
Diagnostic	Events related to Diagnostic
EEM	EEM events

Command Mode

- /exec/configure/callhome

destination-profile full-txt-destination email-addr

[no] destination-profile full-txt-destination email-addr <s0>

Syntax Description

Syntax Description

no	(Optional) Negate a command or set its defaults
destination-profile	Configure destination profiles
full-txt-destination	Configure destination profile for plain txt message
email-addr	Add email addr
s0	Provide email address, example: jdow@xyz.com

Command Mode

- /exec/configure/callhome

destination-profile full-txt-destination http

[no] destination-profile full-txt-destination http <s0>

Syntax Description

Syntax Description

no	(Optional) Negate a command or set its defaults
destination-profile	Configure destination profiles
full-txt-destination	Configure destination profile for plain txt message
http	Add http or https url
s0	Provide http or https url, example1: http://site.com/services/callserv example2: https://site2.com/serv/CALL

Command Mode

- /exec/configure/callhome

destination-profile full-txt-destination message-level

destination-profile full-txt-destination message-level <i0>

Syntax Description

Syntax Description

destination-profile Configure destination profiles

full-txt-destination Configure destination profile for plain txt message

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

i0

Command Mode

- /exec/configure/callhome

destination-profile full-txt-destination message-size

destination-profile full-txt-destination message-size <i0>

Syntax Description

Syntax Description

destination-profile	Configure destination profiles
full-txt-destination	Configure destination profile for plain txt message
message-size	Configure maximum message size (default 2500000)
<i>i0</i>	Provide maximum possible message size

Command Mode

- /exec/configure/callhome

destination-profile full-txt-destination transport-method email

[no] destination-profile full-txt-destination transport-method email

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	destination-profile	Configure destination profiles
	full-txt-destination	Configure destination profile for plain txt message
	transport-method	Callhome message sending transport-method
	email	email transport-method

Command Mode

- /exec/configure/callhome

destination-profile full-txt-destination transport-method http

[no] destination-profile full-txt-destination transport-method http

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
destination-profile	Configure destination profiles
full-txt-destination	Configure destination profile for plain txt message
transport-method	Callhome message sending transport-method
http	http transport-method

Command Mode

- /exec/configure/callhome

destination-profile http

[no] destination-profile <s4> { http <s2> }

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
destination-profile	Configure destination profiles
s4	User defined destination profile name
http	Add http or https url
s2	Provide http or https url, example1: http://site.com/services/callserv example2: https://site2.com/serv/CALL

Command Mode

- /exec/configure/callhome

destination-profile message-level

destination-profile <s0> message-level <i0>

Syntax Description

Syntax Description

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

destination-profile <s0> message-size <i0>

Syntax Description

Syntax Description

destination-profile	Configure destination profiles
<i>s0</i>	User defined destination profile name
message-size	Configure maximum message size (default 2500000)
<i>i0</i>	Provide maximum possible message size

Command Mode

- /exec/configure/callhome

destination-profile short-txt-destination alert-group

[no] destination-profile short-txt-destination alert-group { All | Configuration | Diagnostic | EEM | Cisco-TAC | Environmental | Inventory | License | Linecard-Hardware | Supervisor-Hardware | Syslog-group-port | System | Test }

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
destination-profile	Configure destination profiles
short-txt-destination	Configure destination profile for short txt message
alert-group	Add alert group
All	This alert group consists of all of the callhome messages
Cisco-TAC	Events which are meant for Cisco TAC only
Environmental	Power,fan,temperature related events
Inventory	Inventory status events
License	Events related to licensing
Linecard-Hardware	Linecard related events
Supervisor-Hardware	Supervisor related events
Syslog-group-port	Events related to syslog messages filed by port manager
System	Software related events
Test	User generated test events
Configuration	Events related to Configuration
Diagnostic	Events related to Diagnostic
EEM	EEM events

Command Mode

- /exec/configure/callhome

destination-profile short-txt-destination email-addr

[no] destination-profile short-txt-destination email-addr <s0>

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	destination-profile	Configure destination profiles
	short-txt-destination	Configure destination profile for short txt message
	email-addr	Add email addr
	s0	Provide email address, example: jdow@xyz.com

Command Mode

- /exec/configure/callhome

destination-profile short-txt-destination http

[no] destination-profile short-txt-destination http <s0>

Syntax Description

Syntax Description

no	(Optional) Negate a command or set its defaults
destination-profile	Configure destination profiles
short-txt-destination	Configure destination profile for short txt message
http	Add http or https url
s0	Provide http or https url, example1: http://site.com/services/callserv example2: https://site2.com/serv/CALL

Command Mode

- /exec/configure/callhome

destination-profile short-txt-destination message-level

destination-profile short-txt-destination message-level <i0>

Syntax Description

Syntax Description

destination-profile Configure destination profiles

short-txt-destination Configure destination profile for short txt message

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

i0

Command Mode

- /exec/configure/callhome

destination-profile short-txt-destination message-size

destination-profile short-txt-destination message-size <i0>

Syntax Description

Syntax Description

destination-profile Configure destination profiles

short-txt-destination Configure destination profile for short txt message

message-size Configure maximum message size (default 4000)

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

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

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

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

Syntax Description	
no	(Optional) Negate a command or set its defaults
destination-profile	Configure destination profiles
s6	User defined destination profile name
transport-method	Callhome message sending transport-method
http	http transport-method

Command Mode

- /exec/configure/callhome

destination

[no] destination | destination <ipaddr>

Syntax Description

Syntax Description	<i>no</i>	Negate a command or set its defaults
	<i>destination</i>	destination of tunnel
	<i>ipaddr</i>	ip address (A.B.C.D)

Command Mode

- /exec/configure/if-te

destination

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

Syntax Description

Syntax Description	destination	Specify the destination address
	<i>ipaddr</i>	Destination IP address for collector
	<i>use-vrf</i>	(Optional) Optional VRF label
	<i>vrf_name</i>	(Optional) VRF name
	<i>vrf-known-name</i>	(Optional) Known VRF name

Command Mode

- /exec/configure/nfm-exporter

device-group

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

Syntax Description

Syntax Description	<code>no</code>	Negate a command or set its defaults
	<code>device-group</code>	ITD device group
	<i>name</i>	ITD device group name

Command Mode

- /exec/configure/itd

device-group

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

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	device-group	ITD device group
	<i>name</i>	ITD device group name

Command Mode

- /exec/configure/itd

devtest sap

```
devtest sap <sap> [ exec <func> ]
```

Syntax Description

Syntax Description

devtest Remote API invocation (helps testing and debugging)

sap Specify the SAP address of the destination queue

sap SAP address of the destination queue (0 == Registry)

exec (Optional) Specify the API name to be invoked on the remote feature

func (Optional) Examples:

Command Mode

- /exec

diagnostic bootup level

[no] diagnostic bootup level

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
diagnostic	Diagnostic commands
bootup	Configure Diagnostic for bootup
level	Select diagnostic level

Command Mode

- /exec/configure

diagnostic bootup level bypass

diagnostic bootup level { bypass | complete }

Syntax Description

Syntax Description	
diagnostic	Diagnostic commands
bootup	Configure Diagnostic for bootup
level	Select diagnostic level
bypass	Skip all bootup test
complete	Complete level

Command Mode

- /exec/configure

diagnostic clear result module all diagnostic clear result module test

diagnostic clear result module all | diagnostic clear result module <module> test { <test-id> | all }

Syntax Description

Syntax Description

diagnostic	Diagnostic commands
clear	Erase Diagnostic Test Results/Stats
result	Diagnostic test result
module	Module keyword
<i>module</i>	Module number
all	Select all
test	Diagnostic test selection
<i>test-id</i>	

Command Mode

- /exec

diagnostic eem action aggressive

[no] diagnostic eem action aggressive

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
diagnostic	Diagnostic commands
eem	Configure Diagnostic for eem
action	Select diagnostic action
aggressive	Take aggressive default actions

Command Mode

- /exec/configure

diagnostic monitor interval module test all hour min second

diagnostic monitor interval module <module> test { all | <name> | <test-id> } hour <hour-cntr> min <min-cntr> second <sec-cntr> | no diagnostic monitor interval module <module> test { all | <name> | <test-id> }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
diagnostic		Diagnostic commands
monitor		Configure diagnostic monitoring test
interval		Configure diagnostic monitoring tests interval
module		Module Keyword
<i>module</i>		Module number
test		Diagnostic test selection
all		Select all test ID
<i>test-id</i>		
<i>name</i>		Test name
hour		Hour of the day
<i>hour-cntr</i>		Interval in hours
min		Minute of an hour
<i>min-cntr</i>		Interval in minutes
second		Second of a minute
<i>sec-cntr</i>		Interval in seconds

Command Mode

- /exec/configure

diagnostic monitor module all

[no] diagnostic monitor module all [test <name>]

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
diagnostic	Diagnostic commands
monitor	Configure diagnostic monitoring test
module	Module Keyword
all	Select all module ID
test	(Optional) Diagnostic test selection
<i>name</i>	(Optional) Test name

Command Mode

- /exec/configure

diagnostic monitor module test all

```
diagnostic monitor module <module> test { all | <name> | <test-id> } | no diagnostic monitor module <module>
test { all | <name> | <test-id> }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
diagnostic		Diagnostic commands
monitor		Configure diagnostic monitoring test
module		Module Keyword
<i>module</i>		Module number
test		Diagnostic test selection
all		Select all test ID
<i>test-id</i>		
<i>name</i>		Test name

Command Mode

- /exec/configure

diagnostic ondemand action-on-failure continue failure-count diagnostic ondemand action-on-failure stop

diagnostic ondemand action-on-failure continue failure-count <failure-cnt> | diagnostic ondemand action-on-failure stop

Syntax Description

Syntax Description

diagnostic	Diagnostic commands
ondemand	On demand diagnostic setting
action-on-failure	Set action to take if test fails
continue	Continue ondemand test until test failure limit is reached
failure-count	Continue failing tests this many times
stop	Stop ondemand tests immediately if a test fails
<i>failure-cnt</i>	Maximum number of test failures allowed

Command Mode

- /exec

diagnostic ondemand iteration

diagnostic ondemand iteration <iteration-count>

Syntax Description

Syntax Description		
	diagnostic	Diagnostic commands
	ondemand	On demand diagnostic setting
	iteration	Set number of times to repeat ondemand test list
	<i>iteration-count</i>	Number of times to repeat ondemand test list

Command Mode

- /exec

diagnostic ondemand test-parameter module test port_lb packet-length

diagnostic ondemand test-parameter module <module> test port_lb packet-length <size>

Syntax Description

Syntax Description

diagnostic	Diagnostic commands
ondemand	Ondemand command
test-parameter	Set test parameter
module	Module keyword
<i>module</i>	Module number
test	Diagnostic test selection
port_lb	Port loop back test
packet-length	Size of the packet
<i>size</i>	Packet size for the selected module

Command Mode

- /exec

diagnostic pss shrink

diagnostic pss shrink

Syntax Description

Syntax Description	
diagnostic	Diagnostic commands
pss	PSS command
shrink	compact the diag_port_lb PSS

Command Mode

- /exec

diagnostic start module test

diagnostic start module <module> test { all | <name> | <test-id> | non-disruptive | per-port } [port { iall | <port-id> }]

Syntax Description

Syntax Description

diagnostic	Diagnostic commands
start	Starting on demand diagnostic
module	Module keyword
<i>module</i>	Module Number
test	Diagnostic test selection
all	Select all test ID
<i>name</i>	Test name
<i>test-id</i>	
non-disruptive	Select the Non-Disruptive test suite [Attribute = N]
per-port	Select the Per-Port test suite [Attribute = P]
port	(Optional) Interface port selection
iall	(Optional) Select all ports
<i>port-id</i>	(Optional)

Command Mode

- /exec

diagnostic stop module test all

```
diagnostic stop module <module> test { all | <name> | <test-id> }
```

Syntax Description

Syntax Description	
diagnostic	Diagnostic commands
stop	Stopping diagnostic
module	Module keyword
<i>module</i>	Module Number
test	Diagnostic test selection
all	Select all test ID
<i>test-id</i>	
<i>name</i>	Test name

Command Mode

- /exec

diagnostic test simulation module test diagnostic test simulation module test clear

```
diagnostic test simulation module <module> test <test-id> [ port { <port-id> | all } ] { success | fail | random-fail } | diagnostic test simulation module <module> test <test-id> clear
```

Syntax Description

Syntax Description

diagnostic	Diagnostic commands
test	Diagnostic test selection
simulation	Simulating Diagnostic result
module	Module keyword
<i>module</i>	Module Number
test	Diagnostic test selection
<i>test-id</i>	
port	(Optional) Interface port selection
all	(Optional) Select all ports
<i>port-id</i>	(Optional)
success	pass test result
fail	fail test result
random-fail	fail test result randomly
clear	Stop simulation

Command Mode

- /exec

diff-clean

diff-clean [all-sessions]

Syntax Description

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

Syntax Description

diff-clean remove temp files created by '| diff' filters

all-users remove '| diff' temp files from all sessions (past and present!) of all users

Command Mode

- /exec

diff

| diff [again | echo | -c [<lines>] | -b | -B | -i | -I <regexp> | -y | --left-column | -W <columns> | -q | -s] +

Syntax Description

Syntax Description

	Pipe command output to filter
diff	show difference between current and previous invocation (creates temp files: remove them with 'diff-clean' command and dont use it on commands with big outputs, like 'show tech!')
again	(Optional) dont create new file: use old ones, just change display options or add more filters
echo	(Optional) echo the current file (only effective if no old file)
-c	(Optional) set number of lines of context (default 3)
<i>lines</i>	(Optional) number of lines of context
-b	(Optional) Ignore changes in amount of white space
-B	(Optional) Ignore changes that just insert or delete blank lines
-i	(Optional) Ignore changes in case
-I	(Optional) Ignore changes that just insert or delete lines that match regexp
<i>regexp</i>	(Optional) regexp of lines to ignore
-y	(Optional) Use the side by side output format
--left-column	(Optional) Print only the left column of two common lines in side by side format
-W	(Optional) Use an output width of <columns> in side by side format
<i>columns</i>	(Optional) Use an output width of <columns> in side by side format
-q	(Optional) Report only whether the files differ, not the details of the differences
-s	(Optional) Report when two files are the same

Command Mode

- /output

dir

dir [<uri0> | <uri1> | <uri2>]

Syntax Description

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

Command Mode

- /exec

disable-connected-check

[no | default] disable-connected-check

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
default	(Optional)	Inherit values from a peer template
disable-connected-check		Disable check for directly connected peer

Command Mode

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

disable-memory-alert-check

[no] disable-memory-alert-check

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	disable-memory-alert-check	Disables the system memory alert handling in BGP

Command Mode

- /exec/configure/router-bgp

disable-peer-as-check

[no | default] disable-peer-as-check

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
default	(Optional)	Inherit values from a peer template
disable-peer-as-check		Disable checking of peer AS-number while advertising

Command Mode

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

disable-policy-batching

[no] disable-policy-batching [nexthop | { { ipv4 | ipv6 } prefix-list <prfxlist-name> }]

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
disable-policy-batching		Disable batching evaluation of outbound policy for a peer
nexthop	(Optional)	batching based on nexthop
ipv4	(Optional)	IPv4 address-family
ipv6	(Optional)	IPv6 address-family
prefix-list	(Optional)	Apply prefix-list
<i>prfxlist-name</i>	(Optional)	Name of prefix-list

Command Mode

- /exec/configure/router-bgp

disable

disable

Syntax Description

Syntax Description

disable disable
callhome

Command Mode

- /exec/configure/callhome

discard-route external

[no] discard-route { external | internal }

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
discard-route	Install discard route
external	External route
internal	Internal route

Command Mode

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

discard-route external

[no] discard-route { external | internal }

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	discard-route	Install discard route
	external	External route
	internal	Internal route

Command Mode

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

discovery

```
discovery { quick-start | hello { holdtime <link-hello-holdtime> | interval <link-hello-intvl> } | targeted-hello
{ accept [ from <pfx-list> ] | tgt-holdtime <tgt-hello-holdtime> | tgt-interval <tgt-hello-intvl> } |
ignore-transport-address | omit-transport-address | spoofing } | no discovery { quick-start | hello { holdtime |
interval } | targeted-hello { accept | tgt-holdtime | tgt-interval } | ignore-transport-address | omit-transport-address
| spoofing }
```

Syntax Description

Syntax Description

no	Negate a command or set its defaults
discovery	LDP discovery
quick-start	Enable quick LDP Hello transmissions on interface up
hello	LDP discovery Hello
interval	LDP discovery Hello interval
holdtime	LDP discovery Hello holdtime
<i>link-hello-holdtime</i>	Holdtime in seconds
<i>link-hello-intvl</i>	Hello interval in seconds
targeted-hello	LDP discovery Targeted Hello
accept	Accept targeted hellos
from	(Optional) Prefix list to specify acceptable targeted hello sources
<i>pfx-list</i>	(Optional) Name of prefix list
tgt-holdtime	LDP discovery Targeted Hello holdtime
<i>tgt-hello-holdtime</i>	Holdtime in seconds
tgt-interval	LDP discovery Targeted Hello interval
<i>tgt-hello-intvl</i>	Hello interval in seconds
ignore-transport-address	
omit-transport-address	
spoofing	

Command Mode

- /exec/configure/ldp

distance

distance <ebgp-dist> <ibgp-dist> <local-dist> | no distance [<ebgp-dist> <ibgp-dist> <local-dist>]

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
distance	Configure administrative distance
<i>ebgp-dist</i>	Distance for EBGp routes
<i>ibgp-dist</i>	Distance for IBGP routes
<i>local-dist</i>	Distance for local routes

Command Mode

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

distance

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

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
distance	OSPF administrative distance
<i>admin-dist</i>	administrative distance value

Command Mode

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

distance

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

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	distance	RIP administrative distance
	<i>distance</i>	RIP administrative distance

Command Mode

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

distance

```
{ { distance <int-distance> <ext-distance> } | { no distance [ <int-distance> <ext-distance> ] } }
```

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
distance	Define an administrative distance
<i>int-distance</i>	Distance for internal routes
<i>ext-distance</i>	Distance for external routes

Command Mode

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

distance

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

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
distance	Administrative distance
<i>admin-dist</i>	Distance value

Command Mode

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

distance

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

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
distance	OSPFv3 administrative distance
<i>admin-dist</i>	administrative distance value

Command Mode

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

distribute-list route in

```
[no] distribute-list { { route-map <map> } | { prefix-list <list> } } { in | out } <interface>
```

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
distribute-list	Filter networks in routing updates
route-map	Use a route-map for route filtering
<i>map</i>	Route-map name
prefix-list	Use a prefix-list for route filtering
<i>list</i>	Reference to prefix-list name
in	Filter incoming routing updates
out	Filter outgoing routing updates
<i>interface</i>	Interface name

Command Mode

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

distribute into route-map all

```
{ { distribute <src-level> into <dst-level> { { route-map { <map-name> | <rtr_pol_name> } } | all } } | { no
distribute <src-level> into <dst-level> [ { route-map { <map-name> | <rtr_pol_name> } } | all ] } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
distribute		Distribute routes between ISIS levels
<i>src-level</i>		Route-distribution between levels
<i>dst-level</i>		Route-distribution between levels
route-map		Route Map to constrain distribution
into		from level-n into level-m
<i>map-name</i>		A 'routing-rules' route-map name
<i>rtr_pol_name</i>		An existing routing-rules policy
all		Distribute all level-n routes

Command Mode

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

dns

```
[no] dns { <WORD> } { name-server { <hostname> | <ip-address> } } { [ source-ip { <source-ip-hostname> | <source-ip-address> } ] [ source-port <src-port> ] } +
```

Syntax Description

Syntax Description		
	no	(Optional)
	<i>source-ip</i>	(Optional) source-port
	<i>src-port</i>	(Optional)
	dns	DNS Operation
	<i>WORD</i>	Target IP Address or Hostname
	name-server	Name Server
	<i>hostname</i>	Destination hostname, broadcast disallowed
	<i>ip-address</i>	Destination IP address, broadcast disallowed
	<i>source-ip-hostname</i>	(Optional) source IP hostname, broadcast disallowed
	<i>source-ip-address</i>	(Optional) source IP address, broadcast disallowed
	source-port	(Optional) Source Port

Command Mode

- /exec/configure/ip-sla

domain-id

domain-id { <id> | { type <dtype> value <dvalue> } | Null } | no domain-id [<id> | { type <dtype> value <dvalue> } | Null]

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
domain-id		OSPF domain-ID
<i>id</i>		OSPF domain ID in IP address format
type		OSPF domain ID type in Hex format
<i>dtype</i>		OSPF domain ID type in Hex format
value		OSPF domain ID ext. community value in Hex
<i>dvalue</i>		
Null		Null Domain-ID

Command Mode

- /exec/configure/router-ospf/vrf

domain-id secondary

domain-id { <id> | { type <dtype> value <dvalue> } | Null } secondary | no domain-id [<id> | { type <dtype> value <dvalue> } | Null] secondary

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
domain-id		OSPF domain-ID
<i>id</i>		OSPF domain ID in IP address format
type		OSPF domain ID type in Hex format
<i>dtype</i>		OSPF domain ID type in Hex format
value		OSPF domain ID ext. community value in Hex
<i>dvalue</i>		
Null		Null Domain-ID
secondary		Secondary Domain-ID

Command Mode

- /exec/configure/router-ospf/vrf

domain-tag

[no] domain-tag <as-number>

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	domain-tag	Set OSPF process domain-tag
	<i>as-number</i>	AS number

Command Mode

- /exec/configure/router-ospf/vrf

dont-capability-negotiate

[no | default] dont-capability-negotiate

Syntax Description

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

Syntax Description	
dos2nxos	DOS to NXOS text file format converter
<i>uri0</i>	Filename to be displayed

Command Mode

- /exec

dot1q

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

Syntax Description

Syntax Description

no	Negate a command or set its defaults
----	--------------------------------------

dot1q	Encapsulation dot1q/bd
-------	------------------------

<i>dot1q-id</i>	Encapsulation dot1q/bd value
-----------------	------------------------------

<i>intf-id</i>	Name of the interface for ngoam on which dot1q is configured
----------------	--

Command Mode

- /exec/configure/configngoamprofile

dot1q

```
{ dot1q <vlan-id> [ cos <cos-val> ] } | { no dot1q }
```

Syntax Description

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 (Optional) specify class of service

cos-val (Optional) class of service value

Command Mode

- /exec/configure/configngoamprofileflow

dot1q default dynamic

{ dot1q default dynamic } | { no dot1q default }

Syntax Description

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

Syntax Description	
	dot1x dot1x configuration commands

Command Mode

- /exec/configure

dot1x default

dot1x default

Syntax Description

Syntax Description

dot1x dot1x configuration
commands

Command Mode

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

dot1x host-mode

dot1x host-mode <host_mode> | no dot1x host-mode

Syntax Description

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

Syntax Description		
no		Negate a command or set its defaults
dot1x		dot1x configuration commands
mac-auth-bypass		Configure Mac-Auth-Bypass
eap		(Optional) EAP Authentication

Command Mode

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

dot1x max-reauth-req

dot1x max-reauth-req <count> | no dot1x max-reauth-req

Syntax Description

Syntax Description	
dot1x	dot1x configuration commands
max-reauth-req	Maximum Re-authentication Attempts Before Failing
<i>count</i>	number of retries

Command Mode

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

dot1x max-req

dot1x max-req <count> | no dot1x max-req

Syntax Description

Syntax Description

dot1x dot1x configuration commands

max-req Maximum Retries to Initiate Authentication

count number of retries

Command Mode

- /exec/configure

dot1x max-req

dot1x max-req <count> | no dot1x max-req

Syntax Description

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

Syntax Description	
dot1x	dot1x configuration commands
pae	role of 802.1x authenticating entity
<i>pae-value</i>	role

Command Mode

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

dot1x port-control

[no] dot1x port-control <port-control-value>

Syntax Description

Syntax Description		
	dot1x	dot1x configuration commands
	port-control	port control
	<i>port-control-value</i>	set the port-control value

Command Mode

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

dot1x radius-accounting

[no] dot1x radius-accounting

Syntax Description

Syntax Description	
dot1x	dot1x configuration commands
radius-accounting	accounting messages to RADIUS

Command Mode

- /exec/configure

dot1x re-authenticate

```
{ dot1x re-authenticate } | { dot1x re-authenticate interface <if> }
```

Syntax Description

Syntax Description		
	dot1x	dot1x configuration commands
	re-authenticate	Manually re-authenticate an Interface
	<i>if</i>	target interface

Command Mode

- /exec

dot1x re-authentication

[no] dot1x re-authentication

Syntax Description

Syntax Description

dot1x dot1x configuration commands

re-authentication Enable or Disable Reauthentication for this port

Command Mode

- /exec/configure

dot1x re-authentication

[no] dot1x re-authentication

Syntax Description

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

Syntax Description		
	dot1x	dot1x configuration commands
	credential	supplicant credential profile
	<i>name</i>	profile name

Command Mode

- /exec/configure/dot1x-cred

dot1x start supplicant interface

{ dot1x start supplicant interface <if> } | { dot1x start supplicant interface <if> credential <name> }

Syntax Description

Syntax Description		
dot1x	dot1x configuration commands	
start	start 802.1x client	
supplicant	802.1x supplicant	
<i>if</i>	target interface	
credential	credential profile name	
<i>name</i>	name	

Command Mode

- /exec

dot1x stop supplicant interface

dot1x stop supplicant interface <if>

Syntax Description

Syntax Description		
dot1x	dot1x configuration commands	
stop	stop 802.1x client	
supplicant	802.1x supplicant	
<i>if</i>	target interface	

Command Mode

- /exec

dot1x supplicant credential

[no] dot1x supplicant credential <name>

Syntax Description

Syntax Description	
dot1x	dot1x configuration commands
supplicant	802.1x supplicant
credential	credential profile name
<i>name</i>	name

Command Mode

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

dot1x supplicant credential

[no] dot1x supplicant credential <name>

Syntax Description

Syntax Description	
dot1x	dot1x configuration commands
supplicant	802.1x supplicant
credential	supplicant credential profile

Command Mode

- /exec/configure

dot1x supplicant default

dot1x supplicant default

Syntax Description

Syntax Description	
dot1x	dot1x configuration commands
supplicant	802.1x supplicant

Command Mode

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

dot1x supplicant max-start

[no] dot1x supplicant max-start <count>

Syntax Description

Syntax Description		
dot1x	dot1x configuration commands	
supplicant	802.1x supplicant	
max-start	Maximum Start Requests	
<i>count</i>	number	

Command Mode

- /exec/configure

dot1x supplicant max-start

[no] dot1x supplicant max-start <count>

Syntax Description

Syntax Description	
dot1x	dot1x configuration commands
supplicant	802.1x supplicant
max-start	Maximum Start Requests
<i>count</i>	number

Command Mode

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

dot1x supplicant timeout auth-period

[no] dot1x supplicant timeout auth-period <value>

Syntax Description

Syntax Description		
dot1x		dot1x configuration commands
supplicant	802.1x	supplicant
timeout		Various Timeouts
auth-period		waiting period for responses from authenticator
<i>value</i>		time interval in seconds

Command Mode

- /exec/configure

dot1x supplicant timeout auth-period

[no] dot1x supplicant timeout auth-period <value>

Syntax Description

Syntax Description	dot1x	dot1x configuration commands
	supplicant	802.1x supplicant
	timeout	Various Timeouts
	auth-period	waiting period for responses from authenticator
	<i>value</i>	time interval in seconds

Command Mode

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

dot1x supplicant timeout held-period

[no] dot1x supplicant timeout held-period <value>

Syntax Description

Syntax Description	
dot1x	dot1x configuration commands
supplicant	802.1x supplicant
timeout	Various Timeouts
held-period	waiting period for retrying, after failed authentication
<i>value</i>	time interval in seconds

Command Mode

- /exec/configure

dot1x supplicant timeout held-period

[no] dot1x supplicant timeout held-period <value>

Syntax Description

Syntax Description	dot1x	dot1x configuration commands
	supplicant	802.1x supplicant
	timeout	Various Timeouts
	held-period	waiting period for retrying, after failed authentication
	<i>value</i>	time interval in seconds

Command Mode

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

dot1x supplicant timeout start-period

[no] dot1x supplicant timeout start-period <value>

Syntax Description

Syntax Description		
dot1x		dot1x configuration commands
supplicant		802.1x supplicant
timeout		Various Timeouts
start-period		Interval Between Start Requests
<i>value</i>		time interval in seconds

Command Mode

- /exec/configure

dot1x supplicant timeout start-period

[no] dot1x supplicant timeout start-period <value>

Syntax Description

Syntax Description	dot1x	dot1x configuration commands
	supplicant	802.1x supplicant
	timeout	Various Timeouts
	start-period	Interval Between Start Requests
	<i>value</i>	time interval in seconds

Command Mode

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

dot1x system-auth-control

[no] dot1x system-auth-control

Syntax Description

Syntax Description	
dot1x	dot1x configuration commands
system-auth-control	Enable or Disable SysAuthControl

Command Mode

- /exec/configure

dot1x timeout quiet-period

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

Syntax Description

Syntax Description	
dot1x	dot1x configuration commands
timeout	Various Timeouts
quiet-period	Timeout For Retrying Authentication After Failed Authentication
<i>value</i>	time interval in seconds

Command Mode

- /exec/configure

dot1x timeout quiet-period

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

Syntax Description

Syntax Description		
dot1x		dot1x configuration commands
timeout		Various Timeouts
quiet-period		Timeout For Retrying Authentication After Failed Authentication
<i>value</i>		time interval in seconds

Command Mode

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

dot1x timeout ratelimit-period

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

Syntax Description

Syntax Description		
dot1x		dot1x configuration commands
timeout		Various Timeouts
ratelimit-period		Rate Limit period for EAPOL-Start
<i>value</i>		time interval in seconds

Command Mode

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

dot1x timeout re-authperiod

dot1x timeout re-authperiod <value> | no dot1x timeout re-authperiod

Syntax Description

Syntax Description	dot1x	dot1x configuration commands
	timeout	Various Timeouts
	re-authperiod	Timeout For Re-Authentication
	<i>value</i>	time interval in seconds

Command Mode

- /exec/configure

dot1x timeout re-authperiod

dot1x timeout re-authperiod <value> | no dot1x timeout re-authperiod

Syntax Description

Syntax Description		
dot1x		dot1x configuration commands
timeout		Various Timeouts
re-authperiod		Timeout For Re-Authentication
<i>value</i>		time interval in seconds

Command Mode

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

dot1x timeout server-timeout

dot1x timeout server-timeout <value> | no dot1x timeout server-timeout

Syntax Description

Syntax Description

dot1x	dot1x configuration commands
timeout	Various Timeouts
server-timeout	Timeout for Radius Retries
<i>value</i>	time interval in seconds

Command Mode

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

dot1x timeout supp-timeout

dot1x timeout supp-timeout <value> | no dot1x timeout supp-timeout

Syntax Description

Syntax Description		
dot1x		dot1x configuration commands
timeout		Various Timeouts
supp-timeout		Timeout for Supplicant retries
<i>value</i>		time interval in seconds

Command Mode

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

dot1x timeout tx-period

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

Syntax Description

Syntax Description	dot1x	dot1x configuration commands
	timeout	Various Timeouts
	tx-period	Timeout For Resending Requests To Supplicant
	<i>value</i>	time interval in seconds

Command Mode

- /exec/configure

dot1x timeout tx-period

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

Syntax Description

Syntax Description	dot1x	dot1x configuration commands
	timeout	Various Timeouts
	tx-period	Timeout For Resending Requests To Supplicant
	<i>value</i>	time interval in seconds

Command Mode

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

down-bit-ignore

{ down-bit-ignore } | { no down-bit-ignore }

Syntax Description

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

Syntax Description	
no	Negate a command or set its defaults
downlink	Change downlink linkup time
delay	delay bringup of downlinks
<i>ena-dis-flg</i>	Enable/Disable downlink delay feature
timeout	(Optional) downlink ports enable delay in seconds
<i>time-out</i>	(Optional) Time out

Command Mode

- /exec/configure

dpp set-qos-group

[no] dpp set-qos-group <qos-group>

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
dpp	Dynamic Packet Prioritization	
set-qos-group	QoS group to be mapped	
<i>qos-group</i>	QoS Group Value	

Command Mode

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

dscp

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

Syntax Description

Syntax Description

dscp Optional DSCP

dscp Differentiated services codepoint value

Command Mode

- /exec/configure/nfm-exporter

dst-grp

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

Syntax Description

Syntax Description	no (Optional) Negate a command or set its defaults
	dst-grp Associated destination group

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

Syntax Description	
no	Negate a command or set its defaults
dual-active	Configuration when peer link is down but peer is alive
interface-vlan	Interface vlan configuration
exclude	Interface vlans to exclude from suspension when dual-active
<i>allow-vlans</i>	Set allowed interface vlans

Command Mode

- /exec/configure/vpc-domain

dual-stage translate xml

```
dual-stage translate <dn> { xml | json } <in_file> <out_file> [ exec-python ] [ delete-files ]
```

Syntax Description

Syntax Description

dual-stage	Related to 2 stage commit
translate	Convert from external restful format to internal JSON
xml	Input file has XML
json	Input file has JSON
<i>dn</i>	DN param
<i>in_file</i>	Input file name
<i>out_file</i>	Output file name
exec-python	(Optional) Execute python script after translation
delete-files	(Optional) Delete input and output files after translation

Command Mode

- /exec

duplex

duplex <duplex_mode> | no duplex [<duplex_mode>]

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
duplex	Enter the port duplex mode
<i>duplex_mode</i>	Interface duplex mode

Command Mode

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

duplex

duplex <duplex_mode> | no duplex [<duplex_mode>]

Syntax Description

Syntax Description		
	no	Negate a command or set its defaults
	duplex	Enter the port duplex mode
	<i>duplex_mode</i>	Interface duplex mode

Command Mode

- /exec/configure/if-port-channel

duplex

duplex <duplex_mode> | no duplex [<duplex_mode>]

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
duplex	Enter the port duplex mode
<i>duplex_mode</i>	Interface duplex mode

Command Mode

- /exec/configure/if-mgmt-ether

duplicate-message throttle

[no] duplicate-message throttle

Syntax Description

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

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

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



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- exec-timeout, on page 1297
- exit, on page 1298
- exit, on page 1299
- exp, on page 1300
- explicit-null, on page 1301
- explicit-path identifier, on page 1302
- export map, on page 1303
- export vrf default map, on page 1304
- exporter, on page 1305

ebgp-multihop

ebgp-multihop <ebgp-ttl> | { no | default } ebgp-multihop [<ebgp-ttl>]

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
default		Inherit values from a peer template
ebgp-multihop		Specify multihop TTL for remote peer
<i>ebgp-ttl</i>		EBGP TTL value

Command Mode

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

echo

```
echo [ -e ] [ <line> ]
```

Syntax Description

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

eem test

eem test <param>

Syntax Description

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

Syntax Description		
eemtest		EEM test commands
policy-add		Add a client policy
<i>name</i>		Name of policy (cannot have underscore in first two characters)
override	(Optional)	Override a system policy
<i>override-name</i>	(Optional)	Name of the system policy to override - should begin with double underscore

Command Mode

- /exec

eemtest policy-remove

eemtest policy-remove <name> [override <override-name>]

Syntax Description

Syntax Description

eemtest	EEM test commands
policy-remove	Remove a client policy
<i>name</i>	Name of policy (cannot have underscore in first two characters)
override	(Optional) Override a system policy
<i>override-name</i>	(Optional) Name of the system policy to override - should begin with double underscore

Command Mode

- /exec

egress-engineering

[no | default] egress-engineering [peer-set <peer-set-name>]

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
default	(Optional)	Inherit values from a peer template
egress-engineering		Configure Egress Peer Engineering (EPE) for peer
peer-set	(Optional)	Configure EPE Peer-Set
<i>peer-set-name</i>	(Optional)	EPE Peer-Set name

Command Mode

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

eid-notify authentication-key

[no] eid-notify authentication-key <key>

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
eid-notify		First hop xTR notification
authentication-key		Authentication key used by EID-Notify destinations
key		SHA-1 password

Command Mode

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

eid-notify key

[no] eid-notify <addr> key <auth-key>

Syntax Description

Syntax Description	<i>no</i>	(Optional) Negate a command or set its defaults
	<i>eid-notify</i>	First hop xTR notification
	<i>addr</i>	Address of the first-hop xTR to be notified
	<i>key</i>	Authentication key used by EID-Notify destinations
	<i>auth-key</i>	SHA-1 password

Command Mode

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

eid-prefix

```
{ [ no ] eid-prefix { <eid-prefix> | <eid-prefix6> } [ instance-id <iid> ] [ route-tag <tag> ] [
accept-more-specifics ] }
```

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
eid-prefix		EID-prefix for LISP site
<i>eid-prefix</i>		IP EID-prefix of the site
instance-id	(Optional)	Configures instance-ID for site's EID-prefix
<i>iid</i>	(Optional)	24-bit instance-ID value
route-tag	(Optional)	Route tag for LISP EID-prefix routes
<i>tag</i>	(Optional)	32-bit value for tag
accept-more-specifics	(Optional)	Allow more-specifics of site EID-prefix to register

Command Mode

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

eigrp file-debug

[no] eigrp file-debug

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
eigrp	EIGRP
file-debug	Collect all debugs to a file

Command Mode

- /exec/configure

eltm distribute

[no] eltm distribute

Syntax Description

Syntax Description	
no	(Optional)
eltm	ELTM Configuration
distribute	Distribute ELTM Info to clients

Command Mode

- /exec/configure

email-addr

[no] email-addr <s0>

Syntax Description

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

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

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

Syntax Description	
	Pipe command output to filter
email	Email command output
-f	(Optional) From address
<i>fromemail</i>	(Optional) Email address
-r	(Optional) Reply to address
<i>replytoemail</i>	(Optional) Email address
-S	(Optional) SMTP host
<i>smtphost</i>	(Optional) IPV4/IPV6 address or DNS name
-P	(Optional) SMTP port
<i>smtpport</i>	(Optional) SMTP port number
-s	(Optional) Subject
<i>subject</i>	(Optional) Email subject
-c	(Optional) VRF
<i>vrf-known-name</i>	(Optional) VRF name
<i>toemail</i>	Recipient email address

Command Mode

- /output

enable

enable [<enable-level>]

Syntax Description

Syntax Description

enable	Turn on privileged commands
--------	-----------------------------

<i>enable-level</i>	(Optional) Enable Level
---------------------	-------------------------

Command Mode

- /exec

enable

[no] enable

Syntax Description

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

Command Mode

- /exec/configure/callhome

enable Cert

[no] enable { Cert-DN-match | user-server-group }

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
enable	Enable
user-server-group	Enable/Disable group validation
Cert-DN-match	Enable/Disable Cert-DN matching

Command Mode

- /exec/configure/ldap

enable secret 0 5

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

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
test	(Optional)	test secrets
enable		create secret for privilege escalation
secret		create secret for privilege escalation (defaults to highest priv-lvl 14/15)
0		Indicates that the secret that follows should be in clear text
<i>key1</i>		Secret for privilege escalation (clear text)
5		Indicates that the secret that follows should be encrypted
<i>key2</i>		strongly encrypted secret
<i>key3</i>		Secret for user privilege escalation (clear text)
priv-lvl	(Optional)	Privilege-level to which this secret belongs
<i>n</i>	(Optional)	Privilege-level
all	(Optional)	Add/remove all privilege level secrets

Command Mode

- /exec/configure

encapsulation dot1Q

encapsulation dot1Q <vlan_id> | no encapsulation dot1Q [<vlan_id>]

Syntax Description

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

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

encrypt pause-frame

[no] encrypt pause-frame

Syntax Description

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

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

Syntax Description	
<i>encryption</i>	Strong encryption for credential(s)
<i>delete</i>	Deletes strongly encrypted secret(s)
<i>type6</i>	type6 secrets present in system
<i>uuid</i>	(Optional) uuid of the app
<i>name</i>	(Optional) Service name

Command Mode

- /exec

encryption re-encrypt obfuscated

encryption re-encrypt obfuscated

Syntax Description

Syntax Description

encryption Strong encryption for credential(s)

re-encrypt Re-encrypts weakly encrypted secret(s) to strongly encrypted secret(s)

obfuscated type-3/type-7/clear-text secrets present in system

Command Mode

- /exec

end-job

end-job

Syntax Description

Syntax Description

end-job End scheduler
job

Command Mode

- /exec

end

end

Syntax Description

Syntax Description

end Go to exec mode

Command Mode

- /global

enforce-first-as

[no] enforce-first-as

Syntax Description

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

Syntax Description	
no	(Optional) Negate a command or set its defaults
enrollment	Configure trustpoint enrollment
terminal	Configure trustpoint enrollment via console

Command Mode

- /exec/configure/trustpoint

errdisable

```
errdisable { detect cause_detect { all_cause | link-flap_cause | loopback_cause } | recovery { cause_recovery
{ all_recovery | udd | loopback_recovery | bpduguard | security-violation | psecure-violation | link-flap-recovery
| storm-control | vpc-peerlink | failed-port-state } } } | no errdisable { detect cause_detect { all_cause |
link-flap_cause | loopback_cause } | recovery { cause_recovery { all_recovery | udd | loopback_recovery |
bpduguard | security-violation | psecure-violation | link-flap-recovery | storm-control | vpc-peerlink |
failed-port-state } } }
```

Syntax Description

Syntax Description

no	Negate a command or set its defaults
errdisable	Error disable
detect	Error disable detection
cause_detect	Enable error disable detection for application
all_cause	Enable error detection on all cases
link-flap_cause	Enable error disable detection on linkstate-flapping
loopback_cause	Enable error disable detection on loopback detected by UDLD
recovery	Error disable recovery
cause_recovery	Enable error disable recovery for application
all_recovery	Enable timer to recover from all causes
udd	Enable timer to recover from udd error disabled state
loopback_recovery	Enable timer to recover from loopback error disabled state detected by UDLD
bpduguard	Enable timer to recover from BPDU Guard error disable state
security-violation	Enable timer to recover from 802.1x violation disable state
psecure-violation	Enable timer to recover from psecure violation disable state
link-flap-recovery	Enable timer to recover from linkstate flapping
storm-control	Enable timer to recover from storm control error disabled state
vpc-peerlink	Enable timer to recover from inconsistent vpc peer-link
failed-port-state	Enable timer to recover from stp set port state failure

Command Mode

- /exec/configure

errdisable detect cause acl-exception

[no] errdisable detect cause acl-exception

Syntax Description

Syntax Description	n (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

Syntax Description

n (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

Syntax Description		
no		Negate a command or set its defaults
errdisable		Error disable
recovery		Error disable recovery
interval		Error disable recovery timer value
<i>val</i>		timer-interval (sec)

Command Mode

- /exec/configure

eth-port-manager internal-errdisable

```
{ eth-port-manager internal-errdisable <ifindex> { ulld | bpduguard | loopback | security-violation |
psecure-violation | link-flap | dhcp-rate-limit | arp-inspection | storm-control | ip-addr-conflict |
ipQos-Dcbxp-compat-fail | port-error <enum-port-err> } }
```

Syntax Description

Syntax Description		
eth-port-manager		ethernet port manager
internal-errdisable		error-disable a port
<i>ifindex</i>		specify index
ullld		ullld
bpduguard		BPDU Guard error disable state
loopback		loopback error recovery
security-violation		802.1x violation disable state
psecure-violation		psecure violation disable state
link-flap		linkstate flapping
dhcp-rate-limit		dhcp-rate-limit
arp-inspection		arp-inspection
storm-control		storm-control error disabled state
ip-addr-conflict		ip address conflict
ipQos-Dcbxp-compat-fail		ipQos DCBXP compat fail
port-error		Enter port error
<i>enum-port-err</i>		port syserr

Command Mode

- /exec

ethalyzer local

[no] ethalyzer local [{ { {

Syntax Description

Syntax Description	
{	(Optional) inband
no	(Optional) Negate a command or set its defaults
ethalyzer	Configure cisco packet analyzer
local	start local capture of frames to Sup

Command Mode

- /exec

ethernet-tag encapsulation dot1q default static

{ ethernet-tag encapsulation dot1q default { static <profile-name> | dynamic } } | { no ethernet-tag encapsulation dot1q default }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ethernet-tag	Data snooping triggers	
encapsulation	Encapsulation/Trigger type	
static	Static Profile Map: Configure profile name via CLI	
	<i>profile-name</i>	
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

Syntax Description		
no		Negate a command or set its defaults
ethernet-tag		Data snooping triggers
encapsulation		Encapsulation/Trigger type
static		Static Profile Map: Configure profile name via CLI
	<i>profile-name</i>	
dynamic		Dynamic Profile Map: Retrieve profile name from the external server
dot1q		Dot1Q Encapsulation
	<i>vlan-id</i>	

Command Mode

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

ethernet-tag encapsulation vni default static

```
{ ethernet-tag encapsulation vni default { static <profile-name> | dynamic } } | { no ethernet-tag encapsulation vni default }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ethernet-tag		Data snooping triggers
encapsulation		Encapsulation/Trigger type
static		Static Profile Map: Configure profile name via CLI
	<i>profile-name</i>	
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

Syntax Description		
no		Negate a command or set its defaults
ethernet-tag		Data snooping triggers
encapsulation		Encapsulation/Trigger type
static		Static Profile Map: Configure profile name via CLI
	<i>profile-name</i>	
dynamic		Dynamic Profile Map: Retrieve profile name from the external server
vni		Virtual Network Identifier
	<i>vni-id</i>	

Command Mode

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

evb batch-response disable

{ [no] evb batch-response disable }

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
evb	EVB (Edge Virtual Bridge)	
batch-response	Disable batch-response	
disable	Disable batch-response	

Command Mode

- /exec/configure

evb mac

```
{ evb mac <mac-addr> } | { no evb mac [ <mac-addr> ] }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
evb		EVB (Edge Virtual Bridge)
mac		VDP multicast MAC address
<i>mac-addr</i>		MAC Address

Command Mode

- /exec/configure

evb reinit-keep-alive

```
{ evb reinit-keep-alive <exp> } | { no evb reinit-keep-alive [ <exp> ] }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
evb		EVB (Edge Virtual Bridge)
reinit-keep-alive		Keepalive
<i>exp</i>		Timer exponent. (Min 22 exp ~ 40 seconds)

Command Mode

- /exec/configure

evb resource-wait-delay

```
{ evb resource-wait-delay <exp> } | { no evb resource-wait-delay [ <exp> ] }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
evb		EVB (Edge Virtual Bridge)
resource-wait-delay		Resource wait delay
<i>exp</i>		Timer exponent. (Min 22 exp ~ 40 seconds)

Command Mode

- /exec/configure

event-history

[no] event-history { detail | periodic | objstore } [size { <size_in_text> | <bytes> }]

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
event-history	Configure event-history details
detail	Detailed event history buffer
periodic	Periodic events history buffer
objstore	Objstore events history buffer
size	(Optional) Set the buffer size
<i>size_in_text</i>	(Optional) Buffer size
<i>bytes</i>	(Optional) Buffer size in bytes

Command Mode

- /exec/configure/router-bgp

event-history adbm category all

event-history adbm category all

Syntax Description

Syntax Description

event-history switch wide event history configuration

adbm Configure adbm event logs

category Configure adbm event logs for category

all Configure adbm event logs for category all events

Command Mode

- /exec

event-history adbm category all

event-history adbm no category all

Syntax Description

Syntax Description	
event-history	switch wide event history configuration
adbm	Configure adbm event logs
no	Disable adbm event logs for category
category	Configure adbm event logs for category
all	Configure adbm event logs for category all events

Command Mode

- /exec

event-history adbm category fc2

```
event-history adbm category fc2 [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

Syntax Description

event-history	switch wide event history configuration
adbm	Configure adbm event logs
category	Configure adbm event logs for category
fc2	Configure adbm event logs for category FC2
rx	(Optional) Configure adbm event logs for FC2 Rx frames
brief	(Optional) Configure brief adbm event logs for FC2 Rx
detail	(Optional) Configure detail adbm event logs for FC2 Rx
tx	(Optional) Configure adbm event logs for FC2 Tx frames
brief1	(Optional) Configure brief adbm event logs for FC2 Tx
detail1	(Optional) Configure detail adbm event logs for FC2 Tx

Command Mode

- /exec

event-history adbm category fc2

```
event-history adbm no category fc2 [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

Syntax Description	Description
event-history	switch wide event history configuration
adbm	Configure adbm event logs
no	Disable adbm event logs for category
category	Configure adbm event logs for category
fc2	Configure adbm event logs for category FC2
rx	(Optional) Configure adbm event logs for FC2 Rx frames
brief	(Optional) Configure brief adbm event logs for FC2 Rx
detail	(Optional) Configure detail adbm event logs for FC2 Rx
tx	(Optional) Configure adbm event logs for FC2 Tx frames
brief1	(Optional) Configure brief adbm event logs for FC2 Tx
detail1	(Optional) Configure detail adbm event logs for FC2 Tx

Command Mode

- /exec

event-history adbm category mts

```
event-history adbm category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

Syntax Description

event-history	switch wide event history configuration
adbm	Configure adbm event logs
category	Configure adbm event logs for category
mts	Configure adbm event logs for category mts
rx	(Optional) Configure adbm event logs for mts Rx frames
brief	(Optional) Configure brief adbm event logs for mts Rx
detail	(Optional) Configure detail adbm event logs for mts Rx
tx	(Optional) Configure adbm event logs for mts Tx frames
brief1	(Optional) Configure brief adbm event logs for mts Tx
detail1	(Optional) Configure detail adbm event logs for mts Tx

Command Mode

- /exec

event-history adbm category mts

```
event-history adbm no category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

Syntax Description	Description
event-history	switch wide event history configuration
adbm	Configure adbm event logs
no	Disable adbm event logs for category
category	Configure adbm event logs for category
mts	Configure adbm event logs for category mts
rx	(Optional) Configure adbm event logs for mts Rx frames
brief	(Optional) Configure brief adbm event logs for mts Rx
detail	(Optional) Configure detail adbm event logs for mts Rx
tx	(Optional) Configure adbm event logs for mts Tx frames
brief1	(Optional) Configure brief adbm event logs for mts Tx
detail1	(Optional) Configure detail adbm event logs for mts Tx

Command Mode

- /exec

event-history callhome

```
event-history callhome { mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ] | no mts [ { rx [ { brief1 | detail1 } ] | tx [ { brief2 | detail2 } ] } ] }
```

Syntax Description

Syntax Description

event-history	switch wide event history configuration
callhome	Configure Callhome event logs
mts	Configure callhome event logs for MTS
rx	(Optional) Configure callhome event logs for MTS Rx frames
brief	(Optional) Configure brief callhome event logs for MTS Rx
detail	(Optional) Configure detail callhome event logs for MTS Rx
tx	(Optional) Configure callhome event logs for MTS Tx frames
brief1	(Optional) Configure brief callhome event logs for MTS Tx
detail1	(Optional) Configure detail callhome event logs for MTS Tx
no	Disable callhome event logs for MTS
mts	Configure callhome event logs for MTS
rx	(Optional) Configure callhome event logs for MTS Rx frames
brief1	(Optional) Configure brief callhome event logs for MTS Rx
detail1	(Optional) Configure detail callhome event logs for MTS Rx
tx	(Optional) Configure callhome event logs for MTS Tx frames
brief2	(Optional) Configure brief callhome event logs for MTS Tx
detail2	(Optional) Configure detail callhome event logs for MTS Tx

Command Mode

- /exec

event-history capability

```
event-history capability { category { all | mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ] } | no
category { all | mts [ { rx [ { brief1 | detail1 } ] | tx [ { brief2 | detail2 } ] } ] }
```

Syntax Description

Syntax Description

event-history	switch wide event history configuration
capability	Configure capability event logs
category	Configure capability event logs for category
all	Configure capability event logs for category all events
mts	Configure capability event logs for category mts
rx	(Optional) Configure capability event logs for mts Rx frames
brief	(Optional) Configure brief capability event logs for mts Rx
detail	(Optional) Configure detail capability event logs for mts Rx
tx	(Optional) Configure capability event logs for mts Tx frames
brief1	(Optional) Configure brief capability event logs for mts Tx
detail1	(Optional) Configure detail capability event logs for mts Tx
no	Disable capability event logs for category
category	Configure capability event logs for category
all	Configure capability event logs for category all events
mts	Configure capability event logs for category mts
rx	(Optional) Configure capability event logs for mts Rx frames
brief1	(Optional) Configure brief capability event logs for mts Rx
detail1	(Optional) Configure detail capability event logs for mts Rx
tx	(Optional) Configure capability event logs for mts Tx frames
brief2	(Optional) Configure brief capability event logs for mts Tx
detail2	(Optional) Configure detail capability event logs for mts Tx

Command Mode

- /exec

event-history cli

[no] event-history cli [size { <size_in_text> | <bytes> }]

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
event-history	Configure event-history details
cli	CLI event history buffer
size	(Optional) Set the buffer size
<i>size_in_text</i>	(Optional) Buffer size
<i>bytes</i>	(Optional) Buffer size in bytes

Command Mode

- /exec/configure/router-bgp

event-history copp category all

event-history copp category all

Syntax Description

Syntax Description	
event-history	switch wide event history configuration
copp	Configure copp event logs
category	Configure copp event logs for category
all	Configure copp event logs for category all events

Command Mode

- /exec

event-history copp category all

event-history copp no category all

Syntax Description

Syntax Description

event-history	switch wide event history configuration
copp	Configure copp event logs
no	Disable copp event logs for category
category	Configure copp event logs for category
all	Configure copp event logs for category all events

Command Mode

- /exec

event-history copp category fc2

```
event-history copp category fc2 [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

Syntax Description

event-history	switch wide event history configuration
copp	Configure copp event logs
category	Configure copp event logs for category
fc2	Configure copp event logs for category FC2
rx	(Optional) Configure copp event logs for FC2 Rx frames
brief	(Optional) Configure brief copp event logs for FC2 Rx
detail	(Optional) Configure detail copp event logs for FC2 Rx
tx	(Optional) Configure copp event logs for FC2 Tx frames
brief1	(Optional) Configure brief copp event logs for FC2 Tx
detail1	(Optional) Configure detail copp event logs for FC2 Tx

Command Mode

- /exec

event-history copp category fc2

```
event-history copp no category fc2 [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

Syntax Description

event-history	switch wide event history configuration
copp	Configure copp event logs
no	Disable copp event logs for category
category	Configure copp event logs for category
fc2	Configure copp event logs for category FC2
rx	(Optional) Configure copp event logs for FC2 Rx frames
brief	(Optional) Configure brief copp event logs for FC2 Rx
detail	(Optional) Configure detail copp event logs for FC2 Rx
tx	(Optional) Configure copp event logs for FC2 Tx frames
brief1	(Optional) Configure brief copp event logs for FC2 Tx
detail1	(Optional) Configure detail copp event logs for FC2 Tx

Command Mode

- /exec

event-history copp category mts

```
event-history copp category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

Syntax Description	
event-history	switch wide event history configuration
copp	Configure copp event logs
category	Configure copp event logs for category
mts	Configure copp event logs for category mts
rx	(Optional) Configure copp event logs for mts Rx frames
brief	(Optional) Configure brief copp event logs for mts Rx
detail	(Optional) Configure detail copp event logs for mts Rx
tx	(Optional) Configure copp event logs for mts Tx frames
brief1	(Optional) Configure brief copp event logs for mts Tx
detail1	(Optional) Configure detail copp event logs for mts Tx

Command Mode

- /exec

event-history copp category mts

```
event-history copp no category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

Syntax Description

event-history	switch wide event history configuration
copp	Configure copp event logs
no	Disable copp event logs for category
category	Configure copp event logs for category
mts	Configure copp event logs for category mts
rx	(Optional) Configure copp event logs for mts Rx frames
brief	(Optional) Configure brief copp event logs for mts Rx
detail	(Optional) Configure detail copp event logs for mts Rx
tx	(Optional) Configure copp event logs for mts Tx frames
brief1	(Optional) Configure brief copp event logs for mts Tx
detail1	(Optional) Configure detail copp event logs for mts Tx

Command Mode

- /exec

event-history dot1x

```
event-history dot1x { category { all | mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ] } | no category
{ all | mts [ { rx [ { brief1 | detail1 } ] | tx [ { brief2 | detail2 } ] } ] } }
```

Syntax Description

Syntax Description

event-history	switch wide event history configuration
dot1x	Configure dot1x event logs
category	Configure dot1x event logs for category
all	Configure dot1x event logs for category all events
mts	Configure dot1x event logs for category mts
rx	(Optional) Configure dot1x event logs for mts Rx frames
brief	(Optional) Configure brief dot1x event logs for mts Rx
detail	(Optional) Configure detail dot1x event logs for mts Rx
tx	(Optional) Configure dot1x event logs for mts Tx frames
brief1	(Optional) Configure brief dot1x event logs for mts Tx
detail1	(Optional) Configure detail dot1x event logs for mts Tx
no	Disable dot1x event logs for category
category	Configure dot1x event logs for category
all	Configure dot1x event logs for category all events
mts	Configure dot1x event logs for category mts
rx	(Optional) Configure dot1x event logs for mts Rx frames
brief1	(Optional) Configure brief dot1x event logs for mts Rx
detail1	(Optional) Configure detail dot1x event logs for mts Rx
tx	(Optional) Configure dot1x event logs for mts Tx frames
brief2	(Optional) Configure brief dot1x event logs for mts Tx
detail2	(Optional) Configure detail dot1x event logs for mts Tx

Command Mode

- /exec

event-history eltm category all

event-history eltm category all

Syntax Description

Syntax Description

event-history switch wide event history configuration

eltm Configure eltm event logs

category Configure eltm event logs for category

all Configure eltm event logs for category all events

Command Mode

- /exec

event-history eltm category all

event-history eltm no category all

Syntax Description

Syntax Description

event-history	switch wide event history configuration
eltm	Configure eltm event logs
no	Disable eltm event logs for category
category	Configure eltm event logs for category
all	Configure eltm event logs for category all events

Command Mode

- /exec

event-history eltm category fc2

```
event-history eltm category fc2 [ { rx [ { brief | detail } ] | tx [ { brief | detail } ] } ]
```

Syntax Description

Syntax Description

event-history	switch wide event history configuration
eltm	Configure eltm event logs
category	Configure eltm event logs for category
fc2	Configure eltm event logs for category FC2
rx	(Optional) Configure eltm event logs for FC2 Rx frames
brief	(Optional) Configure brief eltm event logs for FC2 Rx
detail	(Optional) Configure detail eltm event logs for FC2 Rx
tx	(Optional) Configure eltm event logs for FC2 Tx frames
brief	(Optional) Configure brief eltm event logs for FC2 Tx
detail	(Optional) Configure detail eltm event logs for FC2 Tx

Command Mode

- /exec

event-history eltm category fc2

```
event-history eltm no category fc2 [ { rx [ { brief | detail } ] | tx [ { brief | detail } ] } ]
```

Syntax Description

Syntax Description	Description
event-history	switch wide event history configuration
eltm	Configure eltm event logs
no	Disable eltm event logs for category
category	Configure eltm event logs for category
fc2	Configure eltm event logs for category FC2
rx	(Optional) Configure eltm event logs for FC2 Rx frames
brief	(Optional) Configure brief eltm event logs for FC2 Rx
detail	(Optional) Configure detail eltm event logs for FC2 Rx
tx	(Optional) Configure eltm event logs for FC2 Tx frames
brief	(Optional) Configure brief eltm event logs for FC2 Tx
detail	(Optional) Configure detail eltm event logs for FC2 Tx

Command Mode

- /exec

event-history eltm category mts

```
event-history eltm category mts [ { rx [ { brief | detail } ] | tx [ { brief | detail } ] } ]
```

Syntax Description

Syntax Description

event-history	switch wide event history configuration
eltm	Configure eltm event logs
category	Configure eltm event logs for category
mts	Configure eltm event logs for category mts
rx	(Optional) Configure eltm event logs for mts Rx frames
brief	(Optional) Configure brief eltm event logs for mts Rx
detail	(Optional) Configure detail eltm event logs for mts Rx
tx	(Optional) Configure eltm event logs for mts Tx frames
brief	(Optional) Configure brief eltm event logs for mts Tx
detail	(Optional) Configure detail eltm event logs for mts Tx

Command Mode

- /exec

event-history eltm category mts

```
event-history eltm no category mts [ { rx [ { brief | detail } ] | tx [ { brief | detail } ] } ]
```

Syntax Description

Syntax Description	Description
event-history	switch wide event history configuration
eltm	Configure eltm event logs
no	Disable eltm event logs for category
category	Configure eltm event logs for category
mts	Configure eltm event logs for category mts
rx	(Optional) Configure eltm event logs for mts Rx frames
brief	(Optional) Configure brief eltm event logs for mts Rx
detail	(Optional) Configure detail eltm event logs for mts Rx
tx	(Optional) Configure eltm event logs for mts Tx frames
brief	(Optional) Configure brief eltm event logs for mts Tx
detail	(Optional) Configure detail eltm event logs for mts Tx

Command Mode

- /exec

event-history errors

[no] event-history errors [size { <size_in_text> | <bytes> }]

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
event-history	Configure event-history details
errors	Errors history buffer
size	(Optional) Set the buffer size
<i>size_in_text</i>	(Optional) Buffer size
<i>bytes</i>	(Optional) Buffer size in bytes

Command Mode

- /exec/configure/router-bgp

event-history ethpm

```
event-history ethpm { category { all | mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ] } | no category
{ all | mts [ { rx [ { brief1 | detail1 } ] | tx [ { brief2 | detail2 } ] } ] } }
```

Syntax Description

Syntax Description

event-history	switch wide event history configuration
ethpm	Configure ethpm event logs
category	Configure ethpm event logs for category
all	Configure ethpm event logs for category all events
mts	Configure ethpm event logs for category mts
rx	(Optional) Configure ethpm event logs for mts Rx frames
brief	(Optional) Configure brief ethpm event logs for mts Rx
detail	(Optional) Configure detail ethpm event logs for mts Rx
tx	(Optional) Configure ethpm event logs for mts Tx frames
brief1	(Optional) Configure brief ethpm event logs for mts Tx
detail1	(Optional) Configure detail ethpm event logs for mts Tx
no	Disable ethpm event logs for category
category	Configure ethpm event logs for category
all	Configure ethpm event logs for category all events
mts	Configure ethpm event logs for category mts
rx	(Optional) Configure ethpm event logs for mts Rx frames
brief1	(Optional) Configure brief ethpm event logs for mts Rx
detail1	(Optional) Configure detail ethpm event logs for mts Rx
tx	(Optional) Configure ethpm event logs for mts Tx frames
brief2	(Optional) Configure brief ethpm event logs for mts Tx
detail2	(Optional) Configure detail ethpm event logs for mts Tx

Command Mode

- /exec

event-history events

[no] event-history events [size { <size_in_text> | <bytes> }]

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
event-history	Configure event-history details
events	Events history buffer
size	(Optional) Set the buffer size
<i>size_in_text</i>	(Optional) Buffer size
<i>bytes</i>	(Optional) Buffer size in bytes

Command Mode

- /exec/configure/router-bgp

event-history exceptionlog

```
event-history exceptionlog { category { all | mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ] } | no
category { all | mts [ { rx [ { brief1 | detail1 } ] | tx [ { brief2 | detail2 } ] } ] }
```

Syntax Description

Syntax Description

event-history	switch wide event history configuration
exceptionlog	Configure expl manager event logs
category	Configure exceptionlog manager event logs for category
all	Configure explog eventlogs for category all events
mts	Configure exceptionlog manager event logs for category mts
rx	(Optional) Configure exceptionlog manager event logs for mts Rx frames
brief	(Optional) Configure brief exceptionlog manager event logs for mts Rx
detail	(Optional) Configure detail exceptionlog manager event logs for mts Rx
tx	(Optional) Configure exceptionlog manager event logs for mts Tx frames
brief1	(Optional) Configure brief exceptionlog manager event logs for mts Tx
detail1	(Optional) Configure detail exceptionlog manager event logs for mts Tx
no	Disable exceptionlog manager event logs for category
category	Configure exceptionlog manager event logs for category
all	Configure explog eventlogs for category all events
mts	Configure exceptionlog manager event logs for category mts
rx	(Optional) Configure exceptionlog manager event logs for mts Rx frames
brief1	(Optional) Configure brief exceptionlog manager event logs for mts Rx
detail1	(Optional) Configure detail exceptionlog manager event logs for mts Rx
tx	(Optional) Configure exceptionlog manager event logs for mts Tx frames
brief2	(Optional) Configure brief exceptionlog manager event logs for mts Tx
detail2	(Optional) Configure detail exceptionlog manager event logs for mts Tx

Command Mode

- /exec

event-history im category mts

```
event-history im no category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

Syntax Description

event-history	switch wide event history configuration
im	Configure im event logs
no	Disable im event logs for category
category	Configure im event logs for category
mts	Configure im event logs for category mts
rx	(Optional) Configure im event logs for mts Rx frames
brief	(Optional) Configure brief im event logs for mts Rx
detail	(Optional) Configure detail im event logs for mts Rx
tx	(Optional) Configure im event logs for mts Tx frames
brief1	(Optional) Configure brief im event logs for mts Tx
detail1	(Optional) Configure detail im event logs for mts Tx

Command Mode

- /exec

event-history imp category all

event-history imp category all

Syntax Description

Syntax Description	
event-history	switch wide event history configuration
imp	Configure imp event logs
category	Configure imp event logs for category
all	Configure imp event logs for category all events

Command Mode

- /exec

event-history imp category all

event-history imp no category all

Syntax Description

Syntax Description

event-history switch wide event history configuration

imp Configure imp event logs

no Disable imp event logs for category

category Configure imp event logs for category

all Configure imp event logs for category all events

Command Mode

- /exec

event-history imp category fc2

```
event-history imp category fc2 [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

Syntax Description	Description
event-history	switch wide event history configuration
imp	Configure imp event logs
category	Configure imp event logs for category
fc2	Configure imp event logs for category FC2
rx	(Optional) Configure imp event logs for FC2 Rx frames
brief	(Optional) Configure brief imp event logs for FC2 Rx
detail	(Optional) Configure detail imp event logs for FC2 Rx
tx	(Optional) Configure imp event logs for FC2 Tx frames
brief1	(Optional) Configure brief imp event logs for FC2 Tx
detail1	(Optional) Configure detail imp event logs for FC2 Tx

Command Mode

- /exec

event-history imp category fc2

```
event-history imp no category fc2 [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

Syntax Description

event-history	switch wide event history configuration
imp	Configure imp event logs
no	Disable imp event logs for category
category	Configure imp event logs for category
fc2	Configure imp event logs for category FC2
rx	(Optional) Configure imp event logs for FC2 Rx frames
brief	(Optional) Configure brief imp event logs for FC2 Rx
detail	(Optional) Configure detail imp event logs for FC2 Rx
tx	(Optional) Configure imp event logs for FC2 Tx frames
brief1	(Optional) Configure brief imp event logs for FC2 Tx
detail1	(Optional) Configure detail imp event logs for FC2 Tx

Command Mode

- /exec

event-history imp category mts

```
event-history imp category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

Syntax Description	Description
event-history	switch wide event history configuration
imp	Configure imp event logs
category	Configure imp event logs for category
mts	Configure imp event logs for category mts
rx	(Optional) Configure imp event logs for mts Rx frames
brief	(Optional) Configure brief imp event logs for mts Rx
detail	(Optional) Configure detail imp event logs for mts Rx
tx	(Optional) Configure imp event logs for mts Tx frames
brief1	(Optional) Configure brief imp event logs for mts Tx
detail1	(Optional) Configure detail imp event logs for mts Tx

Command Mode

- /exec

event-history imp category mts

```
event-history imp no category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

Syntax Description

event-history	switch wide event history configuration
imp	Configure imp event logs
no	Disable imp event logs for category
category	Configure imp event logs for category
mts	Configure imp event logs for category mts
rx	(Optional) Configure imp event logs for mts Rx frames
brief	(Optional) Configure brief imp event logs for mts Rx
detail	(Optional) Configure detail imp event logs for mts Rx
tx	(Optional) Configure imp event logs for mts Tx frames
brief1	(Optional) Configure brief imp event logs for mts Tx
detail1	(Optional) Configure detail imp event logs for mts Tx

Command Mode

- /exec

event-history interface vlan category all

event-history interface vlan [no] category all

Syntax Description

Syntax Description

event-history	switch wide event history configuration
interface	Configure interfaces
vlan	Configure interface vlan event logs
no	(Optional) Disable interface vlan logs for category
category	Configure interface vlan event logs for category
all	Configure interface vlan event logs for category all events

Command Mode

- /exec

event-history interface vlan category mts

```
event-history interface vlan [ no ] category mts [ rx [ { brief | detail } ] ]
```

Syntax Description

Syntax Description

event-history	switch wide event history configuration
interface	Configure interfaces
vlan	Configure interface vlan event logs
no	(Optional) Disable interface vlan logs for category
category	Configure interface vlan event logs for category
mts	Configure interface vlan event logs for category mts
rx	(Optional) Configure interface vlan event logs for mts Rx frames
brief	(Optional) Configure brief interface vlan event logs for mts Rx
detail	(Optional) Configure detail interface vlan event logs for mts Rx

Command Mode

- /exec

event-history interface vlan category mts

```
event-history interface vlan [ no ] category mts [ tx [ { brief | detail } ] ]
```

Syntax Description

Syntax Description

event-history	switch wide event history configuration
interface	Configure interfaces
vlan	Configure interface vlan event logs
no	(Optional) Disable interface vlan logs for category
category	Configure interface vlan event logs for category
mts	Configure interface vlan event logs for category mts
tx	(Optional) Configure interface vlan event logs for mts Tx frames
brief	(Optional) Configure brief interface vlan event logs for mts Tx
detail	(Optional) Configure detail interface vlan event logs for mts Tx

Command Mode

- /exec

event-history keystore

```
event-history { keystore | sksd } { category { all | mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
} | no category { all | mts [ { rx [ { brief1 | detail1 } ] | tx [ { brief2 | detail2 } ] } ] } }
```

Syntax Description

Syntax Description

event-history	switch wide event history configuration
keystore	Configure keystore event logs
sksd	Configure keystore/sksd event logs
category	Configure keystore event logs for category
all	Configure keystore event logs for category all events
mts	Configure keystore event logs for category mts
rx	(Optional) Configure keystore event logs for mts Rx frames
brief	(Optional) Configure brief keystore event logs for mts Rx
detail	(Optional) Configure detail keystore event logs for mts Rx
tx	(Optional) Configure keystore event logs for mts Tx frames
brief1	(Optional) Configure brief keystore event logs for mts Tx
detail1	(Optional) Configure detail keystore event logs for mts Tx
no	Disable keystore event logs for category
category	Configure keystore event logs for category
all	Configure keystore event logs for category all events
mts	Configure keystore event logs for category mts
rx	(Optional) Configure keystore event logs for mts Rx frames
brief1	(Optional) Configure brief keystore event logs for mts Rx
detail1	(Optional) Configure detail keystore event logs for mts Rx
tx	(Optional) Configure keystore event logs for mts Tx frames
brief2	(Optional) Configure brief keystore event logs for mts Tx
detail2	(Optional) Configure detail keystore event logs for mts Tx

Command Mode

- /exec

event-history lacp category all

event-history lacp category all

Syntax Description

Syntax Description	
event-history	switch wide event history configuration
lacp	Configure lacp event logs
category	Configure lacp event logs for category
all	Configure lacp event logs for category all events

Command Mode

- /exec

event-history lacp category all

event-history lacp no category all

Syntax Description

Syntax Description

event-history switch wide event history configuration

lacp Configure lacp event logs

no Disable lacp event logs for category

category Configure lacp event logs for category

all Configure lacp event logs for category all events

Command Mode

- /exec

event-history lacp category fc2

```
event-history lacp category fc2 [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

Syntax Description	Description
event-history	switch wide event history configuration
lacp	Configure lacp event logs
category	Configure lacp event logs for category
fc2	Configure lacp event logs for category FC2
rx	(Optional) Configure lacp event logs for FC2 Rx frames
brief	(Optional) Configure brief lacp event logs for FC2 Rx
detail	(Optional) Configure detail lacp event logs for FC2 Rx
tx	(Optional) Configure lacp event logs for FC2 Tx frames
brief1	(Optional) Configure brief lacp event logs for FC2 Tx
detail1	(Optional) Configure detail lacp event logs for FC2 Tx

Command Mode

- /exec

event-history lacp category fc2

```
event-history lacp no category fc2 [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

Syntax Description

event-history	switch wide event history configuration
lacp	Configure lacp event logs
no	Disable lacp event logs for category
category	Configure lacp event logs for category
fc2	Configure lacp event logs for category FC2
rx	(Optional) Configure lacp event logs for FC2 Rx frames
brief	(Optional) Configure brief lacp event logs for FC2 Rx
detail	(Optional) Configure detail lacp event logs for FC2 Rx
tx	(Optional) Configure lacp event logs for FC2 Tx frames
brief1	(Optional) Configure brief lacp event logs for FC2 Tx
detail1	(Optional) Configure detail lacp event logs for FC2 Tx

Command Mode

- /exec

event-history lacp category mts

```
event-history lacp category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

Syntax Description	Description
event-history	switch wide event history configuration
lacp	Configure lacp event logs
category	Configure lacp event logs for category
mts	Configure lacp event logs for category mts
rx	(Optional) Configure lacp event logs for mts Rx frames
brief	(Optional) Configure brief lacp event logs for mts Rx
detail	(Optional) Configure detail lacp event logs for mts Rx
tx	(Optional) Configure lacp event logs for mts Tx frames
brief1	(Optional) Configure brief lacp event logs for mts Tx
detail1	(Optional) Configure detail lacp event logs for mts Tx

Command Mode

- /exec

event-history lacp category mts

```
event-history lacp no category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

Syntax Description

event-history	switch wide event history configuration
lacp	Configure lacp event logs
no	Disable lacp event logs for category
category	Configure lacp event logs for category
mts	Configure lacp event logs for category mts
rx	(Optional) Configure lacp event logs for mts Rx frames
brief	(Optional) Configure brief lacp event logs for mts Rx
detail	(Optional) Configure detail lacp event logs for mts Rx
tx	(Optional) Configure lacp event logs for mts Tx frames
brief1	(Optional) Configure brief lacp event logs for mts Tx
detail1	(Optional) Configure detail lacp event logs for mts Tx

Command Mode

- /exec

event-history license

```
event-history license { category { all | mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ] } | no category
{ all | mts [ { rx [ { brief1 | detail1 } ] | tx [ { brief2 | detail2 } ] } ] }
```

Syntax Description

Syntax Description

event-history	switch wide event history configuration
license	Configure license manager event logs
category	Configure license manager event logs for category
all	Configure license manager event logs for category all events
mts	Configure license manager event logs for category mts
rx	(Optional) Configure license manager event logs for mts Rx frames
brief	(Optional) Configure brief license manager event logs for mts Rx
detail	(Optional) Configure detail license manager event logs for mts Rx
tx	(Optional) Configure license manager event logs for mts Tx frames
brief1	(Optional) Configure brief license manager event logs for mts Tx
detail1	(Optional) Configure detail license manager event logs for mts Tx
no	Disable license manager event logs for category
category	Configure license manager event logs for category
all	Configure license manager event logs for category all events
mts	Configure license manager event logs for category mts
rx	(Optional) Configure license manager event logs for mts Rx frames
brief1	(Optional) Configure brief license manager event logs for mts Rx
detail1	(Optional) Configure detail license manager event logs for mts Rx
tx	(Optional) Configure license manager event logs for mts Tx frames
brief2	(Optional) Configure brief license manager event logs for mts Tx
detail2	(Optional) Configure detail license manager event logs for mts Tx

Command Mode

- /exec

event-history lldp category all

event-history lldp category all

Syntax Description

Syntax Description

event-history switch wide event history configuration

lldp Configure lldp event logs

category Configure lldp event logs for category

all Configure lldp event logs for category all events

Command Mode

- /exec

event-history lldp category all

event-history lldp no category all

Syntax Description

Syntax Description	
event-history	switch wide event history configuration
lldp	Configure lldp event logs
no	Disable lldp event logs for category
category	Configure lldp event logs for category
all	Configure lldp event logs for category all events

Command Mode

- /exec

event-history lldp category fc2

```
event-history lldp category fc2 [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

Syntax Description

event-history	switch wide event history configuration
lldp	Configure lldp event logs
category	Configure lldp event logs for category
fc2	Configure lldp event logs for category FC2
rx	(Optional) Configure lldp event logs for FC2 Rx frames
brief	(Optional) Configure brief lldp event logs for FC2 Rx
detail	(Optional) Configure detail lldp event logs for FC2 Rx
tx	(Optional) Configure lldp event logs for FC2 Tx frames
brief1	(Optional) Configure brief lldp event logs for FC2 Tx
detail1	(Optional) Configure detail lldp event logs for FC2 Tx

Command Mode

- /exec

event-history lldp category fc2

```
event-history lldp no category fc2 [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

Syntax Description	Description
event-history	switch wide event history configuration
lldp	Configure lldp event logs
no	Disable lldp event logs for category
category	Configure lldp event logs for category
fc2	Configure lldp event logs for category FC2
rx	(Optional) Configure lldp event logs for FC2 Rx frames
brief	(Optional) Configure brief lldp event logs for FC2 Rx
detail	(Optional) Configure detail lldp event logs for FC2 Rx
tx	(Optional) Configure lldp event logs for FC2 Tx frames
brief1	(Optional) Configure brief lldp event logs for FC2 Tx
detail1	(Optional) Configure detail lldp event logs for FC2 Tx

Command Mode

- /exec

event-history lldp category mts

```
event-history lldp category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

Syntax Description

event-history	switch wide event history configuration
lldp	Configure lldp event logs
category	Configure lldp event logs for category
mts	Configure lldp event logs for category mts
rx	(Optional) Configure lldp event logs for mts Rx frames
brief	(Optional) Configure brief lldp event logs for mts Rx
detail	(Optional) Configure detail lldp event logs for mts Rx
tx	(Optional) Configure lldp event logs for mts Tx frames
brief1	(Optional) Configure brief lldp event logs for mts Tx
detail1	(Optional) Configure detail lldp event logs for mts Tx

Command Mode

- /exec

event-history lldp category mts

```
event-history lldp no category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

Syntax Description	Description
event-history	switch wide event history configuration
lldp	Configure lldp event logs
no	Disable lldp event logs for category
category	Configure lldp event logs for category
mts	Configure lldp event logs for category mts
rx	(Optional) Configure lldp event logs for mts Rx frames
brief	(Optional) Configure brief lldp event logs for mts Rx
detail	(Optional) Configure detail lldp event logs for mts Rx
tx	(Optional) Configure lldp event logs for mts Tx frames
brief1	(Optional) Configure brief lldp event logs for mts Tx
detail1	(Optional) Configure detail lldp event logs for mts Tx

Command Mode

- /exec

event-history mmode category all

```
event-history mmode [ no ] category { all | mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ] }
```

Syntax Description

Syntax Description

event-history	switch wide event history configuration
mmode	Configure mmode event logs
no	(Optional) Disable mmode event logs for category
category	Configure mmode event logs for category
all	Configure mmode event logs for category all events
mts	Configure mmode event logs for category mts
rx	(Optional) Configure mmode event logs for mts Rx frames
brief	(Optional) Configure brief mmode event logs for mts Rx
detail	(Optional) Configure detail mmode event logs for mts Rx
tx	(Optional) Configure mmode event logs for mts Tx frames
brief1	(Optional) Configure brief mmode event logs for mts Tx
detail1	(Optional) Configure detail mmode event logs for mts Tx

Command Mode

- /exec

event-history module

```
event-history module { category { all | mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ] } | no category
{ all | mts [ { rx [ { brief1 | detail1 } ] | tx [ { brief2 | detail2 } ] } ] }
```

Syntax Description

Syntax Description

event-history	switch wide event history configuration
module	Configure module event logs
category	Configure module event logs for category
all	Configure module event logs for category all events
mts	Configure module event logs for category mts
rx	(Optional) Configure module event logs for mts Rx frames
brief	(Optional) Configure brief module event logs for mts Rx
detail	(Optional) Configure detail module event logs for mts Rx
tx	(Optional) Configure module event logs for mts Tx frames
brief1	(Optional) Configure brief module event logs for mts Tx
detail1	(Optional) Configure detail module event logs for mts Tx
no	Disable module event logs for category
category	Configure module event logs for category
all	Configure module event logs for category all events
mts	Configure module event logs for category mts
rx	(Optional) Configure module event logs for mts Rx frames
brief1	(Optional) Configure brief module event logs for mts Rx
detail1	(Optional) Configure detail module event logs for mts Rx
tx	(Optional) Configure module event logs for mts Tx frames
brief2	(Optional) Configure brief module event logs for mts Tx
detail2	(Optional) Configure detail module event logs for mts Tx

Command Mode

- /exec

event-history pfstat category all

event-history pfstat category all

Syntax Description

Syntax Description

event-history switch wide event history configuration

pfstat Configure pfstat event logs

category Configure pfstat event logs for category

all Configure pfstat event logs for category all events

Command Mode

- /exec

event-history pfstat category all

event-history pfstat no category all

Syntax Description

Syntax Description

event-history	switch wide event history configuration
pfstat	Configure pfstat event logs
no	Disable pfstat event logs for category
category	Configure pfstat event logs for category
all	Configure pfstat event logs for category all events

Command Mode

- /exec

event-history pfstat category fc2

```
event-history pfstat category fc2 [ { rx [ { brief | detail } ] | tx [ { brief | detail } ] } ]
```

Syntax Description

Syntax Description

event-history	switch wide event history configuration
pfstat	Configure pfstat event logs
category	Configure pfstat event logs for category
fc2	Configure pfstat event logs for category FC2
rx	(Optional) Configure pfstat event logs for FC2 Rx frames
brief	(Optional) Configure brief pfstat event logs for FC2 Rx
detail	(Optional) Configure detail pfstat event logs for FC2 Rx
tx	(Optional) Configure pfstat event logs for FC2 Tx frames
brief	(Optional) Configure brief pfstat event logs for FC2 Tx
detail	(Optional) Configure detail pfstat event logs for FC2 Tx

Command Mode

- /exec

event-history pfstat category fc2

```
event-history pfstat no category fc2 [ { rx [ { brief | detail } ] | tx [ { brief | detail } ] } ]
```

Syntax Description

Syntax Description

event-history	switch wide event history configuration
pfstat	Configure pfstat event logs
no	Disable pfstat event logs for category
category	Configure pfstat event logs for category
fc2	Configure pfstat event logs for category FC2
rx	(Optional) Configure pfstat event logs for FC2 Rx frames
brief	(Optional) Configure brief pfstat event logs for FC2 Rx
detail	(Optional) Configure detail pfstat event logs for FC2 Rx
tx	(Optional) Configure pfstat event logs for FC2 Tx frames
brief	(Optional) Configure brief pfstat event logs for FC2 Tx
detail	(Optional) Configure detail pfstat event logs for FC2 Tx

Command Mode

- /exec

event-history pfstat category mts

```
event-history pfstat category mts [ { rx [ { brief | detail } ] | tx [ { brief | detail } ] } ]
```

Syntax Description

Syntax Description

event-history	switch wide event history configuration
pfstat	Configure pfstat event logs
category	Configure pfstat event logs for category
mts	Configure pfstat event logs for category mts
rx	(Optional) Configure pfstat event logs for mts Rx frames
brief	(Optional) Configure brief pfstat event logs for mts Rx
detail	(Optional) Configure detail pfstat event logs for mts Rx
tx	(Optional) Configure pfstat event logs for mts Tx frames
brief	(Optional) Configure brief pfstat event logs for mts Tx
detail	(Optional) Configure detail pfstat event logs for mts Tx

Command Mode

- /exec

event-history pfstat category mts

```
event-history pfstat no category mts [ { rx [ { brief | detail } ] | tx [ { brief | detail } ] } ]
```

Syntax Description

Syntax Description	Description
event-history	switch wide event history configuration
pfstat	Configure pfstat event logs
no	Disable pfstat event logs for category
category	Configure pfstat event logs for category
mts	Configure pfstat event logs for category mts
rx	(Optional) Configure pfstat event logs for mts Rx frames
brief	(Optional) Configure brief pfstat event logs for mts Rx
detail	(Optional) Configure detail pfstat event logs for mts Rx
tx	(Optional) Configure pfstat event logs for mts Tx frames
brief	(Optional) Configure brief pfstat event logs for mts Tx
detail	(Optional) Configure detail pfstat event logs for mts Tx

Command Mode

- /exec

event-history platform buffer-size

event-history platform buffer-size <i0>

Syntax Description

Syntax Description	event-history	switch wide event history configuration
	platform	Configure platform event logs
	buffer-size	Configure platform event logs buffer size
	<i>i0</i>	please enter buffer size

Command Mode

- /exec

event-history platform category all

```
event-history platform category { all | mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ] }
```

Syntax Description

Syntax Description

event-history	switch wide event history configuration
platform	Configure platform event logs
category	Configure platform event logs for category
all	Configure platform event logs for category all events
mts	Configure platform event logs for category mts
rx	(Optional) Configure platform event logs for mts Rx frames
brief	(Optional) Configure brief platform event logs for mts Rx
detail	(Optional) Configure detail platform event logs for mts Rx
tx	(Optional) Configure platform event logs for mts Tx frames
brief1	(Optional) Configure brief platform event logs for mts Tx
detail1	(Optional) Configure detail platform event logs for mts Tx

Command Mode

- /exec

event-history platform category all

```
event-history platform no category { all | mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ] }
```

Syntax Description

Syntax Description

event-history	switch wide event history configuration
platform	Configure platform event logs
no	Disable platform event logs for category
category	Configure platform event logs for category
all	Configure platform event logs for category all events
mts	Configure platform event logs for category mts
rx	(Optional) Configure platform event logs for mts Rx frames
brief	(Optional) Configure brief platform event logs for mts Rx
detail	(Optional) Configure detail platform event logs for mts Rx
tx	(Optional) Configure platform event logs for mts Tx frames
brief1	(Optional) Configure brief platform event logs for mts Tx
detail1	(Optional) Configure detail platform event logs for mts Tx

Command Mode

- /exec

event-history pltfm_config category all

event-history pltfm_config category all

Syntax Description

Syntax Description

event-history switch wide event history configuration

pltfm_config Configure pltfm_config event logs

category Configure pltfm_config event logs for category

all Configure pltfm_config event logs for category all events

Command Mode

- /exec

event-history pltfm_config category all

event-history pltfm_config no category all

Syntax Description

Syntax Description

event-history switch wide event history configuration

pltfm_config Configure pltfm_config event logs

no Disable pltfm_config event logs for category

category Configure pltfm_config event logs for category

all Configure pltfm_config event logs for category all events

Command Mode

- /exec

event-history pltfm_config category fc2

```
event-history pltfm_config category fc2 [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

Syntax Description

event-history	switch wide event history configuration
pltfm_config	Configure pltfm_config event logs
category	Configure pltfm_config event logs for category
fc2	Configure pltfm_config event logs for category FC2
rx	(Optional) Configure pltfm_config event logs for FC2 Rx frames
brief	(Optional) Configure brief pltfm_config event logs for FC2 Rx
detail	(Optional) Configure detail pltfm_config event logs for FC2 Rx
tx	(Optional) Configure pltfm_config event logs for FC2 Tx frames
brief1	(Optional) Configure brief pltfm_config event logs for FC2 Tx
detail1	(Optional) Configure detail pltfm_config event logs for FC2 Tx

Command Mode

- /exec

event-history pltfm_config category fc2

```
event-history pltfm_config no category fc2 [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

Syntax Description

event-history	switch wide event history configuration
pltfm_config	Configure pltfm_config event logs
no	Disable pltfm_config event logs for category
category	Configure pltfm_config event logs for category
fc2	Configure pltfm_config event logs for category FC2
rx	(Optional) Configure pltfm_config event logs for FC2 Rx frames
brief	(Optional) Configure brief pltfm_config event logs for FC2 Rx
detail	(Optional) Configure detail pltfm_config event logs for FC2 Rx
tx	(Optional) Configure pltfm_config event logs for FC2 Tx frames
brief1	(Optional) Configure brief pltfm_config event logs for FC2 Tx
detail1	(Optional) Configure detail pltfm_config event logs for FC2 Tx

Command Mode

- /exec

event-history pltfm_config category mts

```
event-history pltfm_config category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

Syntax Description

event-history	switch wide event history configuration
pltfm_config	Configure pltfm_config event logs
category	Configure pltfm_config event logs for category
mts	Configure pltfm_config event logs for category mts
rx	(Optional) Configure pltfm_config event logs for mts Rx frames
brief	(Optional) Configure brief pltfm_config event logs for mts Rx
detail	(Optional) Configure detail pltfm_config event logs for mts Rx
tx	(Optional) Configure pltfm_config event logs for mts Tx frames
brief1	(Optional) Configure brief pltfm_config event logs for mts Tx
detail1	(Optional) Configure detail pltfm_config event logs for mts Tx

Command Mode

- /exec

event-history pltfm_config category mts

```
event-history pltfm_config no category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

Syntax Description

event-history	switch wide event history configuration
pltfm_config	Configure pltfm_config event logs
no	Disable pltfm_config event logs for category
category	Configure pltfm_config event logs for category
mts	Configure pltfm_config event logs for category mts
rx	(Optional) Configure pltfm_config event logs for mts Rx frames
brief	(Optional) Configure brief pltfm_config event logs for mts Rx
detail	(Optional) Configure detail pltfm_config event logs for mts Rx
tx	(Optional) Configure pltfm_config event logs for mts Tx frames
brief1	(Optional) Configure brief pltfm_config event logs for mts Tx
detail1	(Optional) Configure detail pltfm_config event logs for mts Tx

Command Mode

- /exec

event-history plugin

```
event-history plugin { category { all | mts [ { rx [ { brief | detail } ] | tx [ { brief | detail } ] ] } } | no category
{ all | mts [ { rx [ { brief | detail } ] | tx [ { brief | detail } ] ] } }
```

Syntax Description

Syntax Description

event-history	switch wide event history configuration
plugin	Configure plugin event logs
category	Configure plugin event logs for category
all	Configure plugin event logs for category all events
mts	Configure plugin event logs for category mts
rx	(Optional) Configure plugin event logs for mts Rx frames
brief	(Optional) Configure brief plugin event logs for mts Rx
detail	(Optional) Configure detail plugin event logs for mts Rx
tx	(Optional) Configure plugin event logs for mts Tx frames
brief	(Optional) Configure brief plugin event logs for mts Tx
detail	(Optional) Configure detail plugin event logs for mts Tx
no	Disable plugin event logs for category
category	Configure plugin event logs for category
all	Configure plugin event logs for category all events
mts	Configure plugin event logs for category mts
rx	(Optional) Configure plugin event logs for mts Rx frames
brief	(Optional) Configure brief plugin event logs for mts Rx
detail	(Optional) Configure detail plugin event logs for mts Rx
tx	(Optional) Configure plugin event logs for mts Tx frames
brief	(Optional) Configure brief plugin event logs for mts Tx
detail	(Optional) Configure detail plugin event logs for mts Tx

Command Mode

- /exec

event-history poap category all

event-history poap category all

Syntax Description

Syntax Description

event-history switch wide event history configuration

poap Configure poap event logs

category Configure poap event logs for category

all Configure poap event logs for category all events

Command Mode

- /exec

event-history poap category all

event-history poap no category all

Syntax Description

Syntax Description	
event-history	switch wide event history configuration
poap	Configure poap event logs
no	Disable poap event logs for category
category	Configure poap event logs for category
all	Configure poap event logs for category all events

Command Mode

- /exec

event-history poap category fc2

```
event-history poap category fc2 [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

Syntax Description

event-history	switch wide event history configuration
poap	Configure poap event logs
category	Configure poap event logs for category
fc2	Configure poap event logs for category FC2
rx	(Optional) Configure poap event logs for FC2 Rx frames
brief	(Optional) Configure brief poap event logs for FC2 Rx
detail	(Optional) Configure detail poap event logs for FC2 Rx
tx	(Optional) Configure poap event logs for FC2 Tx frames
brief1	(Optional) Configure brief poap event logs for FC2 Tx
detail1	(Optional) Configure detail poap event logs for FC2 Tx

Command Mode

- /exec

event-history poap category fc2

```
event-history poap no category fc2 [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

Syntax Description

event-history	switch wide event history configuration
poap	Configure poap event logs
no	Disable poap event logs for category
category	Configure poap event logs for category
fc2	Configure poap event logs for category FC2
rx	(Optional) Configure poap event logs for FC2 Rx frames
brief	(Optional) Configure brief poap event logs for FC2 Rx
detail	(Optional) Configure detail poap event logs for FC2 Rx
tx	(Optional) Configure poap event logs for FC2 Tx frames
brief1	(Optional) Configure brief poap event logs for FC2 Tx
detail1	(Optional) Configure detail poap event logs for FC2 Tx

Command Mode

- /exec

event-history poap category mts

```
event-history poap category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

Syntax Description

event-history	switch wide event history configuration
poap	Configure poap event logs
category	Configure poap event logs for category
mts	Configure poap event logs for category mts
rx	(Optional) Configure poap event logs for mts Rx frames
brief	(Optional) Configure brief poap event logs for mts Rx
detail	(Optional) Configure detail poap event logs for mts Rx
tx	(Optional) Configure poap event logs for mts Tx frames
brief1	(Optional) Configure brief poap event logs for mts Tx
detail1	(Optional) Configure detail poap event logs for mts Tx

Command Mode

- /exec

event-history poap category mts

```
event-history poap no category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

Syntax Description	Description
event-history	switch wide event history configuration
poap	Configure poap event logs
no	Disable poap event logs for category
category	Configure poap event logs for category
mts	Configure poap event logs for category mts
rx	(Optional) Configure poap event logs for mts Rx frames
brief	(Optional) Configure brief poap event logs for mts Rx
detail	(Optional) Configure detail poap event logs for mts Rx
tx	(Optional) Configure poap event logs for mts Tx frames
brief1	(Optional) Configure brief poap event logs for mts Tx
detail1	(Optional) Configure detail poap event logs for mts Tx

Command Mode

- /exec

event-history port-profile category all

event-history port-profile [no] category all

Syntax Description

Syntax Description

event-history switch wide event history configuration

port-profile Configure port-profile event logs

category Configure port-profile event logs for category

no (Optional) Disable port-profile event logs for category

all Configure port-profile event logs for category all events

Command Mode

- /exec

event-history port-profile category mts

```
event-history port-profile [ no ] category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

Syntax Description

event-history	switch wide event history configuration
port-profile	Configure port-profile event logs
no	(Optional) Disable port-profile event logs for category
category	Configure port-profile event logs for category
mts	Configure port-profile event logs for category mts
rx	(Optional) Configure port-profile event logs for mts Rx frames
brief	(Optional) Configure brief port-profile event logs for mts Rx
detail	(Optional) Configure detail port-profile event logs for mts Rx
tx	(Optional) Configure port-profile event logs for mts Tx frames
brief1	(Optional) Configure brief port-profile event logs for mts Tx
detail1	(Optional) Configure detail port-profile event logs for mts Tx

Command Mode

- /exec

event-history port-security category all

event-history port-security category all

Syntax Description

Syntax Description

event-history switch wide event history configuration

port-security Configure port-security event logs

category Configure port-security event logs for category

all Configure port-security event logs for category all events

Command Mode

- /exec

event-history port-security category all

event-history port-security no category all

Syntax Description

Syntax Description

event-history switch wide event history configuration

port-security Configure port-security event logs

no Disable port-security event logs for category

category Configure port-security event logs for category

all Configure port-security event logs for category all events

Command Mode

- /exec

event-history port-security category fc2

```
event-history port-security category fc2 [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

Syntax Description

event-history	switch wide event history configuration
port-security	Configure port-security event logs
category	Configure port-security event logs for category
fc2	Configure port-security event logs for category FC2
rx	(Optional) Configure port-security event logs for FC2 Rx frames
brief	(Optional) Configure brief port-security event logs for FC2 Rx
detail	(Optional) Configure detail port-security event logs for FC2 Rx
tx	(Optional) Configure port-security event logs for FC2 Tx frames
brief1	(Optional) Configure brief port-security event logs for FC2 Tx
detail1	(Optional) Configure detail port-security event logs for FC2 Tx

Command Mode

- /exec

event-history port-security category fc2

```
event-history port-security no category fc2 [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

Syntax Description

event-history	switch wide event history configuration
port-security	Configure port-security event logs
no	Disable port-security event logs for category
category	Configure port-security event logs for category
fc2	Configure port-security event logs for category FC2
rx	(Optional) Configure port-security event logs for FC2 Rx frames
brief	(Optional) Configure brief port-security event logs for FC2 Rx
detail	(Optional) Configure detail port-security event logs for FC2 Rx
tx	(Optional) Configure port-security event logs for FC2 Tx frames
brief1	(Optional) Configure brief port-security event logs for FC2 Tx
detail1	(Optional) Configure detail port-security event logs for FC2 Tx

Command Mode

- /exec

event-history port-security category mts

```
event-history port-security category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

Syntax Description

event-history	switch wide event history configuration
port-security	Configure port-security event logs
category	Configure port-security event logs for category
mts	Configure port-security event logs for category mts
rx	(Optional) Configure port-security event logs for mts Rx frames
brief	(Optional) Configure brief port-security event logs for mts Rx
detail	(Optional) Configure detail port-security event logs for mts Rx
tx	(Optional) Configure port-security event logs for mts Tx frames
brief1	(Optional) Configure brief port-security event logs for mts Tx
detail1	(Optional) Configure detail port-security event logs for mts Tx

Command Mode

- /exec

event-history port-security category mts

```
event-history port-security no category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

Syntax Description

event-history	switch wide event history configuration
port-security	Configure port-security event logs
no	Disable port-security event logs for category
category	Configure port-security event logs for category
mts	Configure port-security event logs for category mts
rx	(Optional) Configure port-security event logs for mts Rx frames
brief	(Optional) Configure brief port-security event logs for mts Rx
detail	(Optional) Configure detail port-security event logs for mts Rx
tx	(Optional) Configure port-security event logs for mts Tx frames
brief1	(Optional) Configure brief port-security event logs for mts Tx
detail1	(Optional) Configure detail port-security event logs for mts Tx

Command Mode

- /exec

event-history port_client category all

event-history port_client category all

Syntax Description

Syntax Description

event-history switch wide event history configuration

port_client Configure port_client event logs

category Configure port_client event logs for category

all Configure port_client event logs for category all events

Command Mode

- /exec

event-history port_client category all

event-history port_client no category all

Syntax Description

Syntax Description

event-history switch wide event history configuration

port_client Configure port_client event logs

no Disable port_client event logs for category

category Configure port_client event logs for category

all Configure port_client event logs for category all events

Command Mode

- /exec

event-history port_client category fc2

```
event-history port_client category fc2 [ { rx [ { brief | detail } ] | tx [ { brief | detail } ] } ]
```

Syntax Description

Syntax Description

event-history	switch wide event history configuration
port_client	Configure port_client event logs
category	Configure port_client event logs for category
fc2	Configure port_client event logs for category FC2
rx	(Optional) Configure port_client event logs for FC2 Rx frames
brief	(Optional) Configure brief port_client event logs for FC2 Rx
detail	(Optional) Configure detail port_client event logs for FC2 Rx
tx	(Optional) Configure port_client event logs for FC2 Tx frames
brief	(Optional) Configure brief port_client event logs for FC2 Tx
detail	(Optional) Configure detail port_client event logs for FC2 Tx

Command Mode

- /exec

event-history port_client category fc2

```
event-history port_client no category fc2 [ { rx [ { brief | detail } ] | tx [ { brief | detail } ] } ]
```

Syntax Description

Syntax Description	Description
event-history	switch wide event history configuration
port_client	Configure port_client event logs
no	Disable port_client event logs for category
category	Configure port_client event logs for category
fc2	Configure port_client event logs for category FC2
rx	(Optional) Configure port_client event logs for FC2 Rx frames
brief	(Optional) Configure brief port_client event logs for FC2 Rx
detail	(Optional) Configure detail port_client event logs for FC2 Rx
tx	(Optional) Configure port_client event logs for FC2 Tx frames
brief	(Optional) Configure brief port_client event logs for FC2 Tx
detail	(Optional) Configure detail port_client event logs for FC2 Tx

Command Mode

- /exec

event-history port_client category mts

```
event-history port_client category mts [ { rx [ { brief | detail } ] | tx [ { brief | detail } ] } ]
```

Syntax Description

Syntax Description

event-history	switch wide event history configuration
port_client	Configure port_client event logs
category	Configure port_client event logs for category
mts	Configure port_client event logs for category mts
rx	(Optional) Configure port_client event logs for mts Rx frames
brief	(Optional) Configure brief port_client event logs for mts Rx
detail	(Optional) Configure detail port_client event logs for mts Rx
tx	(Optional) Configure port_client event logs for mts Tx frames
brief	(Optional) Configure brief port_client event logs for mts Tx
detail	(Optional) Configure detail port_client event logs for mts Tx

Command Mode

- /exec

event-history port_client category mts

```
event-history port_client no category mts [ { rx [ { brief | detail } ] | tx [ { brief | detail } ] } ]
```

Syntax Description

Syntax Description

event-history	switch wide event history configuration
port_client	Configure port_client event logs
no	Disable port_client event logs for category
category	Configure port_client event logs for category
mts	Configure port_client event logs for category mts
rx	(Optional) Configure port_client event logs for mts Rx frames
brief	(Optional) Configure brief port_client event logs for mts Rx
detail	(Optional) Configure detail port_client event logs for mts Rx
tx	(Optional) Configure port_client event logs for mts Tx frames
brief	(Optional) Configure brief port_client event logs for mts Tx
detail	(Optional) Configure detail port_client event logs for mts Tx

Command Mode

- /exec

event-history private-vlan category all

event-history private-vlan [no] category all

Syntax Description

Syntax Description

event-history switch wide event history configuration

private-vlan Configure private VLAN event logs

no (Optional) Disable private VLAN logs for category

category Configure private VLAN event logs for category

all Configure private VLAN event logs for category all events

Command Mode

- /exec

event-history private-vlan category mts

```
event-history private-vlan [ no ] category mts [ rx [ { brief | detail } ] ]
```

Syntax Description

Syntax Description	Description
event-history	switch wide event history configuration
private-vlan	Configure private VLAN event logs
no	(Optional) Disable private VLAN logs for category
category	Configure private VLAN event logs for category
mts	Configure private VLAN event logs for category mts
rx	(Optional) Configure private VLAN event logs for mts Rx frames
brief	(Optional) Configure brief private VLAN event logs for mts Rx
detail	(Optional) Configure detail private VLAN event logs for mts Rx

Command Mode

- /exec

event-history private-vlan category mts

```
event-history private-vlan [ no ] category mts [ tx [ { brief | detail } ] ]
```

Syntax Description

Syntax Description	Description
event-history	switch wide event history configuration
private-vlan	Configure private VLAN event logs
no	(Optional) Disable private VLAN logs for category
category	Configure private VLAN event logs for category
mts	Configure private VLAN event logs for category mts
tx	(Optional) Configure private VLAN event logs for mts Tx frames
brief	(Optional) Configure brief private VLAN event logs for mts Tx
detail	(Optional) Configure detail private VLAN event logs for mts Tx

Command Mode

- /exec

event-history sensor

```
event-history sensor { category { all | mts [ { rx [ { brief | detail } ] | tx [ { brief | detail } ] ] } } | no category
{ all | mts [ { rx [ { brief | detail } ] | tx [ { brief | detail } ] ] } }
```

Syntax Description

Syntax Description

event-history	switch wide event history configuration
sensor	Configure sensor USD event logs
category	Configure sensor USD event logs for category
all	Configure sensor USD event logs for category all events
mts	Configure sensor USD event logs for category mts
rx	(Optional) Configure sensor USD event logs for mts Rx frames
brief	(Optional) Configure brief sensor USD event logs for mts Rx
detail	(Optional) Configure detail sensor USD event logs for mts Rx
tx	(Optional) Configure sensor USD event logs for mts Tx frames
brief	(Optional) Configure brief sensor USD event logs for mts Tx
detail	(Optional) Configure detail sensor USD event logs for mts Tx
no	Disable sensor USD event logs for category
category	Configure sensor USD event logs for category
all	Configure sensor USD event logs for category all events
mts	Configure sensor USD event logs for category mts
rx	(Optional) Configure sensor USD event logs for mts Rx frames
brief	(Optional) Configure brief sensor USD event logs for mts Rx
detail	(Optional) Configure detail sensor USD event logs for mts Rx
tx	(Optional) Configure sensor USD event logs for mts Tx frames
brief	(Optional) Configure brief sensor USD event logs for mts Tx
detail	(Optional) Configure detail sensor USD event logs for mts Tx

Command Mode

- /exec

event-history session-mgr category all

event-history session-mgr category all

Syntax Description

Syntax Description

event-history switch wide event history configuration

session-mgr Configure session-mgr event logs

category Configure session-mgr event logs for category

all Configure session-mgr event logs for category all events

Command Mode

- /exec

event-history session-mgr category all

event-history session-mgr no category all

Syntax Description

Syntax Description

event-history switch wide event history configuration

session-mgr Configure session-mgr event logs

no Disable session-mgr event logs for category

category Configure session-mgr event logs for category

all Configure session-mgr event logs for category all events

Command Mode

- /exec

event-history session-mgr category mts

```
event-history session-mgr category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

Syntax Description

event-history	switch wide event history configuration
session-mgr	Configure session-mgr event logs
category	Configure session-mgr event logs for category
mts	Configure session-mgr event logs for category mts
rx	(Optional) Configure session-mgr event logs for mts Rx frames
brief	(Optional) Configure brief session-mgr event logs for mts Rx
detail	(Optional) Configure detail session-mgr event logs for mts Rx
tx	(Optional) Configure session-mgr event logs for mts Tx frames
brief1	(Optional) Configure brief session-mgr event logs for mts Tx
detail1	(Optional) Configure detail session-mgr event logs for mts Tx

Command Mode

- /exec

event-history session-mgr category mts

```
event-history session-mgr no category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

Syntax Description	Description
event-history	switch wide event history configuration
session-mgr	Configure session-mgr event logs
no	Disable session-mgr event logs for category
category	Configure session-mgr event logs for category
mts	Configure session-mgr event logs for category mts
rx	(Optional) Configure session-mgr event logs for mts Rx frames
brief	(Optional) Configure brief session-mgr event logs for mts Rx
detail	(Optional) Configure detail session-mgr event logs for mts Rx
tx	(Optional) Configure session-mgr event logs for mts Tx frames
brief1	(Optional) Configure brief session-mgr event logs for mts Tx
detail1	(Optional) Configure detail session-mgr event logs for mts Tx

Command Mode

- /exec

event-history sflow

```
event-history sflow { category { all | mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ] | no category
{ all | mts [ { rx [ { brief1 | detail1 } ] | tx [ { brief2 | detail2 } ] } ] } }
```

Syntax Description

Syntax Description

event-history	switch wide event history configuration
sflow	Configure sFlow event logs
category	Configure sFlow event logs for category
all	Configure sFlow event logs for category all events
mts	Configure sFlow event logs for category mts
rx	(Optional) Configure sFlow event logs for mts Rx frames
brief	(Optional) Configure brief sFlow event logs for mts Rx
detail	(Optional) Configure detail sFlow event logs for mts Rx
tx	(Optional) Configure sFlow event logs for mts Tx frames
brief1	(Optional) Configure brief sFlow event logs for mts Tx
detail1	(Optional) Configure detail sFlow event logs for mts Tx
no	Disable sFlow event logs for category
category	Configure sFlow event logs for category
all	Configure sFlow event logs for category all events
mts	Configure sFlow event logs for category mts
rx	(Optional) Configure sFlow event logs for mts Rx frames
brief1	(Optional) Configure brief sFlow event logs for mts Rx
detail1	(Optional) Configure detail sFlow event logs for mts Rx
tx	(Optional) Configure sFlow event logs for mts Tx frames
brief2	(Optional) Configure brief sFlow event logs for mts Tx
detail2	(Optional) Configure detail sFlow event logs for mts Tx

Command Mode

- /exec

event-history snmp

```
event-history snmp { category { all | mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ] } | no category
{ all | mts [ { rx [ { brief1 | detail1 } ] | tx [ { brief2 | detail2 } ] } ] }
```

Syntax Description

Syntax Description

event-history	switch wide event history configuration
snmp	Configure SNMP event logs
category	Configure SNMP event logs for category
all	Configure SNMP event logs for category all events
mts	Configure snmp event logs for category MTS
rx	(Optional) Configure snmp event logs for MTS Rx frames
brief	(Optional) Configure brief SNMP event logs for MTS Rx
detail	(Optional) Configure detail SNMP event logs for MTS Rx
tx	(Optional) Configure SNMP event logs for MTS Tx frames
brief1	(Optional) Configure brief SNMP event logs for MTS Tx
detail1	(Optional) Configure detail snmp event logs for MTS Tx
no	Disable SNMP event logs for category
category	Configure SNMP event logs for category
all	Configure SNMP event logs for category all events
mts	Configure snmp event logs for category MTS
rx	(Optional) Configure snmp event logs for MTS Rx frames
brief1	(Optional) Configure brief SNMP event logs for MTS Rx
detail1	(Optional) Configure detail SNMP event logs for MTS Rx
tx	(Optional) Configure SNMP event logs for MTS Tx frames
brief2	(Optional) Configure brief SNMP event logs for MTS Tx
detail2	(Optional) Configure detail snmp event logs for MTS Tx

Command Mode

- /exec

event-history spanning-tree category all

event-history spanning-tree category all

Syntax Description

Syntax Description

event-history switch wide event history configuration

spanning-tree Configure stp event logs

category Configure stp event logs for category

all Configure stp event logs for category all events

Command Mode

- /exec

event-history stripcl category all

event-history stripcl category all

Syntax Description

Syntax Description

event-history	switch wide event history configuration
stripcl	Configure stripcl event logs
category	Configure stripcl event logs for category
all	Configure stripcl event logs for category all events

Command Mode

- /exec

event-history stripcl category all

event-history stripcl no category all

Syntax Description

Syntax Description

event-history	switch wide event history configuration
stripcl	Configure stripcl event logs
no	Disable stripcl event logs for category
category	Configure stripcl event logs for category
all	Configure stripcl event logs for category all events

Command Mode

- /exec

event-history stripcl category mts

```
event-history stripcl category mts [ { rx [ { brief | detail } ] | tx [ { brief | detail } ] } ]
```

Syntax Description

Syntax Description

event-history	switch wide event history configuration
stripcl	Configure stripcl event logs
category	Configure stripcl event logs for category
mts	Configure stripcl event logs for category mts
rx	(Optional) Configure stripcl event logs for mts Rx frames
brief	(Optional) Configure brief stripcl event logs for mts Rx
detail	(Optional) Configure detail stripcl event logs for mts Rx
tx	(Optional) Configure stripcl event logs for mts Tx frames
brief	(Optional) Configure brief stripcl event logs for mts Tx
detail	(Optional) Configure detail stripcl event logs for mts Tx

Command Mode

- /exec

event-history tamnw category all

event-history tamnw category all

Syntax Description

Syntax Description

event-history switch wide event history configuration

tamnw Configure tamnw event logs

category Configure tamnw event logs for category

all Configure tamnw event logs for category all events

Command Mode

- /exec

event-history tamnw category all

event-history tamnw no category all

Syntax Description

Syntax Description	
event-history	switch wide event history configuration
tamnw	Configure tamnw event logs
no	Disable tamnw event logs for category
category	Configure tamnw event logs for category
all	Configure tamnw event logs for category all events

Command Mode

- /exec

event-history tamnw category fc2

```
event-history tamnw category fc2 [ { rx [ { brief | detail } ] | tx [ { brief | detail } ] } ]
```

Syntax Description

Syntax Description	Description
event-history	switch wide event history configuration
tamnw	Configure tamnw event logs
category	Configure tamnw event logs for category
fc2	Configure tamnw event logs for category FC2
rx	(Optional) Configure tamnw event logs for FC2 Rx frames
brief	(Optional) Configure brief tamnw event logs for FC2 Rx
detail	(Optional) Configure detail tamnw event logs for FC2 Rx
tx	(Optional) Configure tamnw event logs for FC2 Tx frames
brief	(Optional) Configure brief tamnw event logs for FC2 Tx
detail	(Optional) Configure detail tamnw event logs for FC2 Tx

Command Mode

- /exec

event-history tamnw category fc2

```
event-history tamnw no category fc2 [ { rx [ { brief | detail } ] | tx [ { brief | detail } ] } ]
```

Syntax Description

Syntax Description

event-history	switch wide event history configuration
tamnw	Configure tamnw event logs
no	Disable tamnw event logs for category
category	Configure tamnw event logs for category
fc2	Configure tamnw event logs for category FC2
rx	(Optional) Configure tamnw event logs for FC2 Rx frames
brief	(Optional) Configure brief tamnw event logs for FC2 Rx
detail	(Optional) Configure detail tamnw event logs for FC2 Rx
tx	(Optional) Configure tamnw event logs for FC2 Tx frames
brief	(Optional) Configure brief tamnw event logs for FC2 Tx
detail	(Optional) Configure detail tamnw event logs for FC2 Tx

Command Mode

- /exec

event-history tamnw category mts

```
event-history tamnw category mts [ { rx [ { brief | detail } ] | tx [ { brief | detail } ] } ]
```

Syntax Description

Syntax Description

event-history	switch wide event history configuration
tamnw	Configure tamnw event logs
category	Configure tamnw event logs for category
mts	Configure tamnw event logs for category mts
rx	(Optional) Configure tamnw event logs for mts Rx frames
brief	(Optional) Configure brief tamnw event logs for mts Rx
detail	(Optional) Configure detail tamnw event logs for mts Rx
tx	(Optional) Configure tamnw event logs for mts Tx frames
brief	(Optional) Configure brief tamnw event logs for mts Tx
detail	(Optional) Configure detail tamnw event logs for mts Tx

Command Mode

- /exec

event-history tamnw category mts

```
event-history tamnw no category mts [ { rx [ { brief | detail } ] | tx [ { brief | detail } ] } ]
```

Syntax Description

Syntax Description

event-history	switch wide event history configuration
tamnw	Configure tamnw event logs
no	Disable tamnw event logs for category
category	Configure tamnw event logs for category
mts	Configure tamnw event logs for category mts
rx	(Optional) Configure tamnw event logs for mts Rx frames
brief	(Optional) Configure brief tamnw event logs for mts Rx
detail	(Optional) Configure detail tamnw event logs for mts Rx
tx	(Optional) Configure tamnw event logs for mts Tx frames
brief	(Optional) Configure brief tamnw event logs for mts Tx
detail	(Optional) Configure detail tamnw event logs for mts Tx

Command Mode

- /exec

event-history udd category all

event-history udd category all

Syntax Description

Syntax Description

event-history switch wide event history configuration

udd Configure udd event logs

category Configure udd event logs for category

all Configure udd event logs for category all events

Command Mode

- /exec

event-history vdc category all

event-history vdc category all

Syntax Description

Syntax Description

event-history	switch wide event history configuration
vdc	Configure vdc_mgr event logs
category	Configure vdc_mgr event logs for category
all	Configure vdc_mgr event logs for category all events

Command Mode

- /exec

event-history vdc category all

event-history vdc no category all

Syntax Description

Syntax Description

event-history	switch wide event history configuration
vdc	Configure vdc_mgr event logs
no	Disable vdc_mgr event logs for category
category	Configure vdc_mgr event logs for category
all	Configure vdc_mgr event logs for category all events

Command Mode

- /exec

event-history vdc category mts

```
event-history vdc no category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

Syntax Description

event-history	switch wide event history configuration
vdc	Configure vdc_mgr event logs
no	Disable vdc_mgr event logs for category
category	Configure vdc_mgr event logs for category
mts	Configure vdc_mgr event logs for category mts
rx	(Optional) Configure vdc_mgr event logs for mts Rx frames
brief	(Optional) Configure brief vdc_mgr event logs for mts Rx
detail	(Optional) Configure detail vdc_mgr event logs for mts Rx
tx	(Optional) Configure vdc_mgr event logs for mts Tx frames
brief1	(Optional) Configure brief vdc_mgr event logs for mts Tx
detail1	(Optional) Configure detail vdc_mgr event logs for mts Tx

Command Mode

- /exec

event-history xbar category all

event-history xbar category all

Syntax Description

Syntax Description

event-history switch wide event history configuration

xbar Configure xbar event logs

category Configure xbar event logs for category

all Configure xbar event logs for category all events

Command Mode

- /exec

event-history xbar category all

event-history xbar no category all

Syntax Description

Syntax Description	
event-history	switch wide event history configuration
xbar	Configure xbar event logs
no	Disable xbar event logs for category
category	Configure xbar event logs for category
all	Configure xbar event logs for category all events

Command Mode

- /exec

event-history xbar category debug

event-history xbar category debug { demux | deque | flow | ha | init }

Syntax Description

Syntax Description

event-history	switch wide event history configuration
xbar	Configure xbar event logs
category	Configure xbar event logs for category
debug	Configure xbar event logs for category debug
demux	Configure xbar event logs for category demux
deque	Configure xbar event logs for category deque
flow	Configure xbar event logs for category flow
ha	Configure xbar event logs for category HA
init	Configure xbar event logs for category init

Command Mode

- /exec

event-history xbar category debug

event-history xbar no category debug { demux | deque | flow | ha | init }

Syntax Description

Syntax Description	
event-history	switch wide event history configuration
xbar	Configure xbar event logs
no	Disable xbar event logs for category
category	Configure xbar event logs for category
debug	Configure xbar event logs for category debug
demux	Configure xbar event logs for category demux
deque	Configure xbar event logs for category deque
flow	Configure xbar event logs for category flow
ha	Configure xbar event logs for category HA
init	Configure xbar event logs for category init

Command Mode

- /exec

event-history xbar category mts

```
event-history xbar category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

Syntax Description

event-history	switch wide event history configuration
xbar	Configure xbar event logs
category	Configure xbar event logs for category
mts	Configure xbar event logs for category mts
rx	(Optional) Configure xbar event logs for mts Rx frames
brief	(Optional) Configure brief xbar event logs for mts Rx
detail	(Optional) Configure detail xbar event logs for mts Rx
tx	(Optional) Configure xbar event logs for mts Tx frames
brief1	(Optional) Configure brief xbar event logs for mts Tx
detail1	(Optional) Configure detail xbar event logs for mts Tx

Command Mode

- /exec

event-history xbar category mts

```
event-history xbar no category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

Syntax Description	Description
event-history	switch wide event history configuration
xbar	Configure xbar event logs
no	Disable xbar event logs for category
category	Configure xbar event logs for category
mts	Configure xbar event logs for category mts
rx	(Optional) Configure xbar event logs for mts Rx frames
brief	(Optional) Configure brief xbar event logs for mts Rx
detail	(Optional) Configure detail xbar event logs for mts Rx
tx	(Optional) Configure xbar event logs for mts Tx frames
brief1	(Optional) Configure brief xbar event logs for mts Tx
detail1	(Optional) Configure detail xbar event logs for mts Tx

Command Mode

- /exec

event-log-size

```
{ { [ eigrp ] event-log-size <size> } | { no [ eigrp ] event-log-size [ <size> ] } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
eigrp		(Optional) EIGRP router configuration commands
event-log-size		Set IP-EIGRP event log size
size		Event log size

Command Mode

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

event-logging

[no] [eigrp] event-logging

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
eigrp	(Optional) EIGRP router configuration commands
event-logging	Log IP-EIGRP routing events

Command Mode

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

event

[no] event

Syntax Description

Syntax Description

no Negate a command or set its defaults

event Configure an event specification

Command Mode

- /exec/configure/event-manager-applet

event application sub-system type

[no] event application [tag <tag_id>] sub-system <sub-system-id> type <event-type>

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
event		Configure an event specification
application		Application specific event
tag	(Optional)	event tag identifier
<i>tag_id</i>	(Optional)	tag name
sub-system		Sub-system ID that will publish the application event
<i>sub-system-id</i>		Sub-system ID value
type		Event type within the specified sub-system
<i>event-type</i>		Event type value

Command Mode

- /exec/configure/event-manager-applet

event cli match

```
[no] event cli [ tag <tag_id> ] match <regex> [ count <countnum> [ time <interval> ] ]
```

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
event		Configure an event specification
cli		Create a cli event specification
tag	(Optional)	event tag identifier
<i>tag_id</i>	(Optional)	tag name
match		Enter cli regex to be used for matching
<i>regex</i>		CLI regex, use * to wildcard a token
count	(Optional)	Enter an integer to be used as count
<i>countnum</i>	(Optional)	Integer count
time	(Optional)	Enter time interval within which the events need to happen
<i>interval</i>	(Optional)	Time interval in seconds, 0 for indefinitely

Command Mode

- /exec/configure/event-manager-applet

event counter name entry-val entry-op

```
[no] event counter [ tag <tag_id> ] name <counter-name> entry-val <entry-val> entry-op <entry-op> [ exit-val
<exit-val> exit-op <exit-op> ]
```

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
event		Configure an event specification
counter		Create a counter event
tag	(Optional)	event tag identifier
<i>tag_id</i>	(Optional)	tag name
name		Enter the name of the counter
<i>counter-name</i>		Name of the counter
entry-val		Specify the counter entry conditions
<i>entry-val</i>		Specify the value for comparison with the counter value
entry-op		Specify the operator to be used for comparison
<i>entry-op</i>		Specify the comparison operator
exit-val	(Optional)	Specify the counter exit conditions
<i>exit-val</i>	(Optional)	Specify the value for comparison with the counter value
exit-op	(Optional)	Specify the operator to be used for comparison
<i>exit-op</i>	(Optional)	Specify the comparison operator

Command Mode

- /exec/configure/event-manager-applet

event fanabsent time

[no] event fanabsent [fan <fan-number>] time <time-interval>

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
event		Configure an event specification
fanabsent		Create fanabsent event specification
fan	(Optional)	Optional. Enter fan number (optional arg)
<i>fan-number</i>	(Optional)	Enter fan-number
time		Enter time
<i>time-interval</i>		Time in seconds fan can stay absent

Command Mode

- /exec/configure/event-manager-applet

event fanbad time

[no] event fanbad [fan <fan-number>] time <time-interval>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
event	Configure an event specification
fanbad	Create fanbad event specification
fan	(Optional) Optional. Enter fan number (optional arg)
<i>fan-number</i>	(Optional) Enter fan-number
time	Enter time
<i>time-interval</i>	Time in seconds fan can stay bad

Command Mode

- /exec/configure/event-manager-applet

event gold module test testing-type scheduled consecutive-failure

```
event gold module { <module> | all } test { <name> } [ severity { minor | moderate | major } ] testing-type {
scheduled | monitoring } consecutive-failure <cnt> | no event gold module { <module> | all } test { <name>
}
```

Syntax Description

Syntax Description

no	Negate a command or set its defaults
event	Configure an event specification
gold	Create a 'Diagnostic' event specification
module	Module keyword
<i>module</i>	Module Number
all	Select all module ID
test	Diagnostic test selection
<i>name</i>	Test name
severity	(Optional) Severity of failure
minor	(Optional) Minor failure
moderate	(Optional) Moderate failure
major	(Optional) Major failure
testing-type	Type of Diagnostic test
scheduled	Scheduled Test
monitoring	Monitoring Test
consecutive-failure	Consecutive number of times failure has occurred
<i>cnt</i>	Failure count

Command Mode

- /exec/configure/event-manager-applet

event interface name parameter entry-val entry-op entry-type poll-interval

```
[no] event interface [ tag <tag_id> ] name <interface-name> parameter <counter-name> entry-val <entry-val>
entry-op { en_gt | en_ge | en_eq | en_ne | en_lt | en_le } entry-type { en_value | en_increment | en_rate }
poll-interval <poll-int-val> [ exit-comb { or | and } ] [ exit-val <exit-val> exit-op { ex_gt | ex_ge | ex_eq |
ex_ne | ex_lt | ex_le } exit-type { ex_value | ex_increment | ex_rate } ] [ exit-time <exit-time-val> ] [ exit-event
{ false | true } ] [ average-factor <avg-factor-val> ]
```

Syntax Description

Syntax Description

no	(Optional) Negate a command or set its defaults
event	Configure an event specification
interface	Interface event
tag	(Optional) event tag identifier
<i>tag_id</i>	(Optional) tag name
name	Interface name
<i>interface-name</i>	Interface name string
parameter	Interface counter to monitor
<i>counter-name</i>	Name of the interface counter
entry-val	Counter value be compared to raise interface event
<i>entry-val</i>	Entry counter value
entry-op	Entry comparison operator
en_gt	Greater than
en_ge	Greater than or equal to
en_eq	Equal to
en_ne	Not equal to
en_lt	Less than
en_le	Less than or equal to
entry-type	Entry comparison type
en_value	Entry-val specifies an absolute value
en_increment	Entry-val specifies an increment

en_rate	Entry-val specifies the rate of change over a period
poll-interval	Interval between consecutive polls in seconds
exit-comb	(Optional) Exit combination operator for exit condition tests
or	(Optional) Either exit-op/exit-val or exit-time must exist
and	(Optional) Both exit-op/exit-val and exit-time must exist
exit-val	(Optional) Exit counter value for interface event
<i>exit-val</i>	(Optional) Exit value
exit-op	(Optional) Exit comparison operator
ex_gt	(Optional) Greater than
ex_ge	(Optional) Greater than or equal to
ex_eq	(Optional) Equal to
ex_ne	(Optional) Not equal to
ex_lt	(Optional) Less than
ex_le	(Optional) Less than or equal to
exit-type	(Optional) Exit comparison type
ex_value	(Optional) Exit-val specifies an absolute value
ex_increment	(Optional) Exit-val specifies an increment
ex_rate	(Optional) Exit-val specifies the rate of change over a period
exit-time	(Optional) Time before event monitoring is reenabled
exit-event	(Optional) Raise an exit event upon exit
false	(Optional) Do not raise an exit event upon exit
true	(Optional) Raise an exit event upon exit
average-factor	(Optional) Period used for rate based calculations
<i>avg-factor-val</i>	(Optional) Average factor value

Command Mode

- /exec/configure/event-manager-applet

event internal-link-flap count

[no] event internal-link-flap count <countnum> [time <interval>]

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
event		Configure an event specification
internal-link-flap		Create a 'internal-link-flap' event specification
count		Enter an integer to be used as count
<i>countnum</i>		Integer count
time	(Optional)	Enter time interval within which the events need to happen
<i>interval</i>	(Optional)	Time interval in seconds

Command Mode

- /exec/configure/event-manager-applet

event manager applet

[no] event manager applet <name> [module <module-id>] [override <override-name>]

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
event		Event Manager commands
manager		Event Manager commands
applet		Create/Modify an Event Manager Policy
<i>name</i>		Name of policy (cannot have underscore in first two characters)
module	(Optional)	Restrict policy to a module
<i>module-id</i>	(Optional)	
override	(Optional)	Override a system policy
<i>override-name</i>	(Optional)	Name of the system policy to override - should begin with double underscore

Command Mode

- /exec/configure

event manager clear counter

event manager clear counter <counter-name>

Syntax Description

Syntax Description		
	event	Event Manager commands
	manager	Event Manager commands
	clear	Clear event manager information
	counter	Clear the value of a counter
	<i>counter-name</i>	Name of the counter

Command Mode

- /exec

event manager clear history events

event manager clear history events

Syntax Description

Syntax Description

event Event Manager commands

manager Event Manager commands

clear Clear event manager information

history Clear the stored/archived information

events Clear all the stored/archived event history for this VDC

Command Mode

- /exec

event manager command maximum-timeout

event manager command maximum-timeout

Syntax Description

Syntax Description		
	event	Event Manager commands
	manager	Event Manager commands
	command	Cli's configured as policy actions
	maximum-timeout	Allot maximum timeout for cli action execution

Command Mode

- /exec

event manager environment

event manager environment <varname> <varvalue> | no event manager environment <varname>

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
event		Event Manager commands
manager		Event Manager commands
environment		Configure an environment variable
<i>varname</i>		Name of the environment variable
<i>varvalue</i>		Value of the environment variable

Command Mode

- /exec/configure

event manager policy

event manager policy <name>

Syntax Description

Syntax Description	<i>event</i>	Event Manager commands
	<i>manager</i>	Event Manager commands
	<i>policy</i>	Register a script policy and activate it
	<i>name</i>	Name of the script policy file

Command Mode

- /exec/configure

event manager run

```
event manager run <policy-name> [ <arg1> [ <arg2> [ <arg3> [ <arg4> [ <arg5> [ <arg6> [ <arg7> [ <arg8>
[ <arg9> [ <arg10> ]]]]]]]]]]]]
```

Syntax Description

Syntax Description

event	Event Manager commands
manager	Event Manager commands
run	Trigger/run an event manager policy manually
<i>policy-name</i>	Name of the policy to be triggered-cannot specify default system policy
<i>arg1</i>	(Optional) User specified data value 1
<i>arg2</i>	(Optional) User specified data value 2
<i>arg3</i>	(Optional) User specified data value 3
<i>arg4</i>	(Optional) User specified data value 4
<i>arg5</i>	(Optional) User specified data value 5
<i>arg6</i>	(Optional) User specified data value 6
<i>arg7</i>	(Optional) User specified data value 7
<i>arg8</i>	(Optional) User specified data value 8
<i>arg9</i>	(Optional) User specified data value 9
<i>arg10</i>	(Optional) User specified data value 10

Command Mode

- /exec

event manager script

[no] event manager script <name> [override <override-name>]

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
event		Event Manager commands
manager		Event Manager commands
script		Create/Modify an Event Manager Policy
<i>name</i>		Name of the policy - cannot have underscore in first two characters
override	(Optional)	Have this policy override a system policy
<i>override-name</i>	(Optional)	Name of the system policy to override - should begin with double underscore

Command Mode

- /exec/configure

event memory

[no] event memory { minor | severe | critical }

Syntax Description

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

Syntax Description		
no	(Optional)	Negate a command or set its defaults
event		Configure an event specification
module-failure		Create a 'module-failure' event specification
tag	(Optional)	event tag identifier
<i>tag_id</i>	(Optional)	tag name
type		Enter an error type
<i>err-name</i>		
module		Enter a module number
all		All modules
<i>module</i>		Enter module number
count		Enter an integer to be used as count
<i>countnum</i>		Integer count
time	(Optional)	Enter time interval within which the events need to happen
<i>interval</i>	(Optional)	Time interval in seconds

Command Mode

- /exec/configure/event-manager-applet

event module status module1

```
[no] event module [ tag <tag_id> ] status { online | offline | any } module1 { all | <module> }
```

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
event	Configure an event specification
module	Create a 'module' event specification
tag	(Optional) event tag identifier
<i>tag_id</i>	(Optional) tag name
status	Status event
online	Online status
offline	Offline status
any	Online or offline status
module1	Enter a module number
all	All modules
<i>module</i>	Enter module number

Command Mode

- /exec/configure/event-manager-applet

event neighbor-discovery

[no] event [tag <tag_id>] neighbor-discovery

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
event		Configure an event specification
tag	(Optional)	event tag identifier
<i>tag_id</i>	(Optional)	tag name
neighbor-discovery		Show CDP new neighbors

Command Mode

- /exec/configure/event-manager-applet

event none

[no] event none [tag <tag_id>]

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	event	Configure an event specification
	none	Manually run policy event with none
	tag	(Optional) event tag identifier
	<i>tag_id</i>	(Optional) tag name

Command Mode

- /exec/configure/event-manager-applet

event oir fan

```
[no] event oir [ tag <tag_id> ] fan { insert | remove | anyoir } [ <fannum> ]
```

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
event	Configure an event specification
oir	Create Online-Insertion-Removal event specification
tag	(Optional) event tag identifier
<i>tag_id</i>	(Optional) tag name
fan	Fan OIR
insert	OIR insert
remove	OIR remove
anyoir	any OIR (Either insert or remove)
<i>fannum</i>	(Optional) Optional. Enter Fan number.

Command Mode

- /exec/configure/event-manager-applet

event oir module

```
[no] event oir [ tag <tag_id> ] module { insert | remove | anyoir } [ <module> ]
```

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
event	Configure an event specification
oir	Create Online-Insertion-Removal event specification
tag	(Optional) event tag identifier
<i>tag_id</i>	(Optional) tag name
module	Module OIR
insert	OIR insert
remove	OIR remove
anyoir	any OIR (Either insert or remove)
<i>module</i>	(Optional) Optional. Enter module number

Command Mode

- /exec/configure/event-manager-applet

event oir powersupply

[no] event oir [tag <tag_id>] powersupply { insert | remove | anyoir } [<powersupnum>]

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
event		Configure an event specification
oir		Create Online-Insertion-Removal event specification
tag	(Optional)	event tag identifier
<i>tag_id</i>	(Optional)	tag name
powersupply	powersupply	OIR
insert		OIR insert
remove		OIR remove
anyoir		any OIR (Either insert or remove)
<i>powersupnum</i>	(Optional)	Optional. Enter powersupply number

Command Mode

- /exec/configure/event-manager-applet

event policy-default count

[no] event policy-default count <countnum> [time <interval>]

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
event		Configure an event specification
policy-default		Use the event in the system policy being overridden
count		Enter an integer to be used as count
<i>countnum</i>		Integer count
time	(Optional)	Enter time interval within which the events need to happen
<i>interval</i>	(Optional)	Time interval in seconds

Command Mode

- /exec/configure/event-manager-applet

event poweroverbudget

[no] event poweroverbudget

Syntax Description

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

Syntax Description

no	(Optional) Negate a command or set its defaults
event	Configure an event specification
snmp	Create a 'snmp' event specification.
tag	(Optional) event tag identifier
<i>tag_id</i>	(Optional) tag name
oid	oid of data element in dot notation.
<i>oid-val</i>	oid of data element in dot notation.
get-type	The type of SNMP get operation.
exact	exact
next	next
entry-op	entry comparison operator.
ent_gt	greater than
ent_ge	greater than or equal to
ent_eq	equal to
ent_ne	not equal to
ent_lt	less than
ent_le	less than or equal to
entry-val	value to compare with the current polled value
<i>entry-val</i>	value to compare with the current polled value
exit-comb	(Optional) exit criterion combination
or	(Optional) logical OR
and	(Optional) logical AND
exit-op	(Optional) exit comparison operator.

ex_gt	(Optional) greater than
ex_ge	(Optional) greater than or equal to
ex_eq	(Optional) equal to
ex_ne	(Optional) not equal to
ex_lt	(Optional) less than
ex_le	(Optional) less than or equal to
exit-val	(Optional) value to compare with the current polled value
<i>exit-val</i>	(Optional) value to compare with the current polled value
exit-op1	(Optional) exit comparison operator.
ex_gt1	(Optional) greater than
ex_ge1	(Optional) greater than or equal to
ex_eq1	(Optional) equal to
ex_ne1	(Optional) not equal to
ex_lt1	(Optional) less than
ex_le1	(Optional) less than or equal to
exit-val1	(Optional) value to compare with the current polled value
<i>exit-val1</i>	(Optional) value to compare with the current polled value
exit-time	(Optional) exit time
<i>exit-time-val</i>	(Optional) exit time in seconds
poll-interval	polling interval
<i>poll-int-val</i>	polling interval in seconds

Command Mode

- /exec/configure/event-manager-applet

event storm-control

[no] event storm-control

Syntax Description

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

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

Syntax Description	
no	(Optional) Negate a command or set its defaults
event	Configure an event specification
sysmgr	system manager related events
memory	memory alert event
module	(Optional) Optional. Enter module number
<i>module</i>	(Optional) Enter module-number
major	set major memory threshold
<i>i0</i>	major memory threshold
minor	set minor memory threshold
<i>i1</i>	minor memory threshold
clear	set clear memory alert threshold
<i>i2</i>	clear memory threshold

Command Mode

- /exec/configure/event-manager-applet

event sysmgr switchover count time

[no] event sysmgr switchover count <countnum> time <interval>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
event	Configure an event specification
sysmgr	System manager related events
switchover	Switchover related event
count	Number of switchovers after which event should be triggered
<i>countnum</i>	Integer count
time	Enter time interval within which the events need to happen
<i>interval</i>	Time interval in seconds

Command Mode

- /exec/configure/event-manager-applet

event temperature threshold

[no] event temperature [module <module>] [sensor <sensornum>] threshold { major | minor | any }

Syntax Description

Syntax Description

no	(Optional) Negate a command or set its defaults
event	Configure an event specification
temperature	Create temperature event specification
module	(Optional) Optional. Enter module number (optional arg)
<i>module</i>	(Optional) Enter module-number
sensor	(Optional) Optional. Enter sensor number (optional arg)
<i>sensornum</i>	(Optional) Enter sensor number
threshold	Enter Major or Minor threshold
major	Major threshold
minor	Minor threshold
any	Major or Minor

Command Mode

- /exec/configure/event-manager-applet

event test match

```
[no] event test [ tag <tag_id> ] match <num> [ count <countnum> ] [ time <interval> ]
```

Syntax Description

Syntax Description	
<i>no</i>	(Optional) Negate a command or set its defaults
<i>event</i>	Configure an event specification
<i>tag</i>	(Optional) event tag identifier
<i>tag_id</i>	(Optional) tag name
<i>test</i>	Create a 'test' event specification
<i>match</i>	Enter an integer to be used for matching
<i>num</i>	Integer value
<i>count</i>	(Optional) Enter an integer to be used as count
<i>countnum</i>	(Optional) Integer count
<i>time</i>	(Optional) <interval>
<i>interval</i>	(Optional) Time interval in seconds

Command Mode

- /exec/configure/event-manager-applet

event timer

```
[no] event timer [ tag <tag_id> ] { watchdog wtime <watchdog-time> | absolute atime <absolute-time> |
countdown ctime <countdown-time> | cron cron-entry <cron-time> } [ name <timer_name> ]
```

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
event	Configure an event specification	
timer	Create a timer event specification	
tag	(Optional) event tag identifier	
<i>tag_id</i>	(Optional) tag name	
name	(Optional) name of the timer	
<i>timer_name</i>	(Optional) Enter the timer name	
watchdog	Watchdog timer event	
wtime	Time period for watchdog	
<i>watchdog-time</i>	<1-1924991999[.0-999]> Enter seconds[.milliseconds] value	
absolute	Absolute timer event.	
atime	epoch time for absolute. Try epochconverter online tool to get value	
<i>absolute-time</i>	<1-1924991999[.0-999]> Enter seconds[.milliseconds] value	
countdown	Countdown timer event	
ctime	Time period for countdown	
<i>countdown-time</i>	<1-1924991999[.0-999]> Enter seconds[.milliseconds] value	
cron	Cron timer event	
cron-entry	Cron entry string	
<i>cron-time</i>	format: * * * * * => min hour dom month dow	

Command Mode

- /exec/configure/event-manager-applet

event track state

event track [tag <tag_id>] <object-id> state { any | up | down } | no event track [tag <tag_id>] <object-id>

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
event		Configure an event specification
track		Create a 'track' event specification
tag		(Optional) event tag identifier
<i>tag_id</i>		(Optional) tag name
<i>object-id</i>		Track objects
state		State of tracking object
any		Any state
down		Down state
up		Up state

Command Mode

- /exec/configure/event-manager-applet

evpn

[no] evpn

Syntax Description

Syntax Description	no (Optional) Negate a command or set its defaults
---------------------------	--

	evpn Enter EVPN configuration mode
--	------------------------------------

Command Mode

- /exec/configure

exceptionlog module syserr devid errtype errcode phylayer ports harderror

```
exceptionlog module <module> syserr <syserr> devid <id> errtype <type> errcode <code> phylayer <phy>
ports <list> harderror <hard> [ { desc <str> } ] [ { inband <intinband> } ]
```

Syntax Description

Syntax Description

exceptionlog	Exception log
module	Enter a module number
<i>module</i>	Enter module number
syserr	Enter syserr
<i>syserr</i>	Syserr code
devid	Enter device id
<i>id</i>	Device id
errtype	Enter error type
<i>type</i>	Error type
errcode	Enter error code
<i>code</i>	Error code
phylayer	Enter phy layer
<i>phy</i>	Phy layer
ports	Enter failed ports
<i>list</i>	List of ports
harderror	Irrecoverable error?
<i>hard</i>	Error sub-category
desc	(Optional) Enter error description
<i>str</i>	(Optional) Error description
inband	(Optional) inband flag
<i>intinband</i>	(Optional) inband flag

Command Mode

- /exec

exclude access-list

[no] exclude access-list <acl-name>

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	exclude	ACL to exclude from redirection
	access-list	ITD access-list name
	<i>acl-name</i>	ITD exclude ACL name

Command Mode

- /exec/configure/itd

exclude access-list

[no] exclude access-list <acl-name>

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	exclude	ACL to exclude from redirection
	access-list	ITD access-list name
	<i>acl-name</i>	ITD exclude ACL name

Command Mode

- /exec/configure/itd

exec-timeout

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

Syntax Description

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

Command Mode

- /exec/configure/console

exec-timeout

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

Syntax Description

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

Command Mode

- /exec/configure/line

exit

exit

Syntax Description

Syntax Description

exit Exit from command interpreter

Command Mode

- /global

exit

exit

Syntax Description

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

exp

```
[no] exp { default | <val> [ <val> [ <val> [ <val> [ <val> [ <val> [ <val> [ <val> ] ] ] ] ] ] ] [ default ] }
```

Syntax Description

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 <px-list>] [to <peer-px-list>] | no explicit-null

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
explicit-null	Advertise Explicit Null label in place of Implicit Null
for	(Optional) Prefix list specifying controls on destination prefixes
<i>px-list</i>	(Optional) Name of prefix list
to	(Optional) Access-list specifying controls on LDP peers
<i>peer-px-list</i>	(Optional) Name of prefix list

Command Mode

- /exec/configure/ldp

explicit-path identifier

[no] explicit-path { identifier <id> | name <string> }

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
explicit-path	Configure explicit-path	
identifier	Specify explicit path by number	
<i>id</i>	Enter number	
name	Specify explicit path by name	
<i>string</i>	Enter name	

Command Mode

- /exec/configure/te

export map

[no] export map <rmap-name>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
export	VRF export
map	Route-map based VRF export
<i>rmap-name</i>	Route-map name

Command Mode

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

export vrf default map

[no] export vrf default [<prefix-limit>] map <rmap-name>

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
export		VRF export
vrf		Virtual Router Context
default		VRF name (default)
<i>prefix-limit</i>	(Optional)	Maximum prefix limit
map		Route-map based VRF import
<i>rmap-name</i>		Route-map name

Command Mode

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

exporter

[no] exporter <exportername>

Syntax Description

Syntax Description

exporter Add an Exporter to use to export records

exportername Name of exporter

Command Mode

- /exec/configure/nfm-monitor



F Commands

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- [fabric database auto-pull dci vrf node-id](#), on page 1311
- [fabric database auto-pull vni interface](#), on page 1312
- [fabric database inherit-profile-map](#), on page 1313
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fabric-soo

[no] fabric-soo { <ext-comm-soo-aa2nn4> | <ext-comm-soo-aa4nn2> }

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
fabric-soo		Fabric Site of Origin
<i>ext-comm-soo-aa4nn2</i>	VPN	extcommunity in aa4:fabric_id format
<i>ext-comm-soo-aa2nn4</i>	VPN	extcommunity in aa:fabric_id format

Command Mode

- /exec/configure/router-bgp

fabric database auto-pull dci vrf node-id

fabric database auto-pull dci vrf <vrf-name> node-id <mgmt-ip-address> [peer-id <peer-ip-address>]

Syntax Description

Syntax Description		
	fabric	Fabric
	database	Fabric Database
	auto-pull	Pull configuration
	dci	DCI profile
	vrf	Display per-VRF information
	<i>vrf-name</i>	VRF name
	node-id	management ip address of this node
	<i>mgmt-ip-address</i>	IP address in CIDR format
	peer-id	(Optional) management ip address of peer
	<i>peer-ip-address</i>	(Optional) IP address in CIDR format

Command Mode

- /exec

fabric database auto-pull vni interface

```
fabric database auto-pull { vni <vni-id> | dot1q <vlan-id> } interface <interface-id> [ { overwrite-vlan |
overwrite-bd } <ow-vlan-id> ]
```

Syntax Description

Syntax Description		
fabric		Fabric
database		Fabric Database
auto-pull		Pull configuration
vni		Pull ethernet-tag vni configuration
<i>vni-id</i>		
dot1q		Pull ethernet-tag dot1q configuration
<i>vlan-id</i>		
interface		Applied interface
<i>interface-id</i>		Name of interface
overwrite-vlan	(Optional)	Overwrite the system generate vlan
overwrite-bd	(Optional)	Overwrite the system generate bd
<i>ow-vlan-id</i>	(Optional)	

Command Mode

- /exec

fabric database inherit-profile-map

{ fabric database inherit-profile-map <id> } | { no fabric database inherit-profile-map }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
fabric		Fabric
database		Configure Fabric Database
inherit-profile-map		Inherit a profile map. All non-global mappings will be inherited.
<i>id</i>		Profile Map ID

Command Mode

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

fabric database mobility-domain

[no] fabric database mobility-domain <name>

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
fabric		Fabric
database		Configure Fabric Database
mobility-domain		Tag to identify mobility domain name
<i>name</i>		Mobility Domain Name

Command Mode

- /exec/configure

fabric database override-profile

[no] fabric database override-profile <profilename>

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
fabric		Fabric
database		Configure Fabric Database
override-profile		Override the network profile name
<i>profilename</i>		Enter the profile name to override network profile

Command Mode

- /exec/configure

fabric database override-vrf-profile

[no] fabric database override-vrf-profile <profilename>

Syntax Description

Syntax Description		
	no	(Optional) Negate a command or set its defaults
	fabric	Fabric
	database	Configure Fabric Database
	override-vrf-profile	Override the VRF (partition) profile name
	<i>profilename</i>	Enter the profile name to override VRF profile

Command Mode

- /exec/configure

fabric database profile-map

[no] fabric database profile-map <id>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
fabric	Fabric
database	Configure Fabric Database
profile-map	Configure a profile map
<i>id</i>	Profile Map ID

Command Mode

- /exec/configure

fabric database profile-map global

[no] fabric database profile-map global

Syntax Description

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

Syntax Description		
	fabric	Fabric
	database	Fabric Database
	refresh	Refresh profile configuration
	dot1q	Dot1Q Encapsulation
	<i>vlan-id</i>	
	interface	(Optional) Applied interface
	<i>interface-id</i>	(Optional) Name of interface
	mobility-domain	(Optional) Tag to identify mobility domain name
	<i>name</i>	(Optional) Mobility Domain Name

Command Mode

- /exec

fabric database refresh vni

```
fabric database refresh { vni <vni-id> | include-vrf { <vrf-name> } }
```

Syntax Description

Syntax Description

fabric	Fabric
database	Fabric Database
refresh	Refresh profile configuration
vni	Virtual Network Identifier
<i>vni-id</i>	
include-vrf	Include VRF name
<i>vrf-name</i>	VRF name

Command Mode

- /exec

fabric database timer

[no] fabric database timer { cleanup | recovery | vdp | re-add } <timeout>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
fabric	
database	
timer	HMM timers
cleanup	Delay in minutes before profile is deleted
recovery	Delay in minutes before recovered profile is deleted
vdp	Delay in minutes before new VDP requests (after un-apply) are accepted
re-add	Delay in minutes before new client requests (after un-apply) are accepted
timeout	Set timeout in minutes

Command Mode

- /exec/configure

fabric database type bl-dci

[no] fabric database type bl-dci

Syntax Description

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

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 network

[no] fabric database type network

Syntax Description

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

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

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 anycast-gateway-mac

{ fabric forwarding anycast-gateway-mac <mac-addr> } | { no fabric forwarding anycast-gateway-mac }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
fabric		Fabric
forwarding		Fabric Forwarding Protocol: Host Mobility Manager (HMM)
anycast-gateway-mac		Anycast Gateway MAC of the Switch
<i>mac-addr</i>		MAC address

Command Mode

- /exec/configure

fabric forwarding dup-host-ip-addr-detection

```
{ fabric forwarding dup-host-ip-addr-detection <mmoves> <nsecs> | no fabric forwarding
dup-host-ip-addr-detection }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
fabric		Fabric
forwarding		Fabric Forwarding Protocol: Host Mobility Manager (HMM)
dup-host-ip-addr-detection		To detect duplicate host address in n secs
<i>mmoves</i>		Set Number of host moves to be allowed in n secs. Default is 5
<i>nsecs</i>		Set the duplicate detection timeout in secs for host moves. Default is 180

Command Mode

- /exec/configure

fabric forwarding dup-host-recovery-timer recover-count

{ fabric forwarding dup-host-recovery-timer <timeout> recover-count <count> | no fabric forwarding dup-host-recovery-timer }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
fabric		Fabric
forwarding		Fabric Forwarding Protocol: Host Mobility Manager (HMM)
dup-host-recovery-timer		Refresh the frozen duplicate host
<i>timeout</i>		Set the timeout in secs to refresh the duplicate host. Default is 30 secs
recover-count		Maximum number of refreshes
<i>count</i>		Set the maximum number of host refresh. Default is 5.

Command Mode

- /exec/configure

fabric forwarding limit-vlan-mac

[no] fabric forwarding limit-vlan-mac <max-limit>

Syntax Description

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 4)
<i>max-limit</i>		Set max-limit

Command Mode

- /exec/configure

fabric forwarding mode anycast-gateway

{ fabric forwarding mode anycast-gateway } | { no fabric forwarding mode }

Syntax Description

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

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

failaction

[no] failaction { [node { reassign | drop | least-bucket }] | [bucket { distribute }] | [cluster drop] }

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
failaction	ITD failaction
node	(Optional) ITD failaction node
reassign	(Optional) ITD failaction reassign
drop	(Optional) ITD failaction drop
least-bucket	(Optional) ITD failaction least-bucket node
bucket	(Optional) ITD failaction bucket reassign
distribute	(Optional) ITD failaction distribute reassign
cluster	(Optional) ITD failaction cluster

Command Mode

- /exec/configure/itd

failaction

[no] failaction { [node { reassign | drop }] | [cluster drop] } +

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
failaction	ITD failaction
node	(Optional) ITD failaction node
reassign	(Optional) ITD failaction reassign
drop	(Optional) ITD failaction drop
cluster	(Optional) ITD failaction cluster

Command Mode

- /exec/configure/itd

fast-external-fallover

[no] fast-external-fallover

Syntax Description

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

Syntax Description	
no	(Optional) Negate a command or set its defaults
fast-flood	Fast flood the LSP's
enable	Turn on fast-flooding

Command Mode

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

fast-flood enable

[no] fast-flood enable

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
fast-flood	Fast flood the LSP's
enable	Turn on fast-flooding

Command Mode

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

fast-flood interval

[no] fast-flood interval <interval>

Syntax Description

Syntax Description	<i>no</i>	(Optional) Negate a command or set its defaults
	<i>fast-flood</i>	Fast flood the LSP's
	<i>interval</i>	Duration/interval of the fast-flood timer.
	<i>interval</i>	Specify the value (ms)

Command Mode

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

fast-flood interval

[no] fast-flood interval <interval>

Syntax Description

Syntax Description	<i>no</i> (Optional) Negate a command or set its defaults
	<i>fast-flood</i> Fast flood the LSP's
	<i>interval</i> Duration/interval of the fast-flood timer.
	<i>interval</i> Specify the value (ms)

Command Mode

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

fast-reroute

[no] fast-reroute | fast-reroute [node-protect | bw-protect] +

Syntax Description

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

Syntax Description		
no	(Optional) Negate a command or set its defaults	
fast-reroute	fast-reroute parameters	
backup-prot-preempt	Preemption algorithm for backup tunnels	
optimize-bw	Reduce bandwidth wastage (default: minimize LSPs preempted)	
timers	configure fast-reroute timer	
promotion	Configure how often we scan for LSP backup promotion	
<i>seconds</i>	seconds between promotions (0 disables promotion.)	

Command Mode

- /exec/configure/te

feature-set

[no] feature-set <fs>

Syntax Description

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

Syntax Description	
feature-set	Enable feature-set
<i>fs</i>	allow feature-set

Command Mode

- /exec/configure

feature

[no] feature <arg1>

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
---------------------------	----	---

feature	Feature name
---------	--------------

<i>arg1</i>	Enter feature name
-------------	--------------------

Command Mode

- /exec/configure/rolefeaturegrp

feature bash-shell

[no] feature bash-shell

Syntax Description

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

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

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 eigrp

[no] feature eigrp

Syntax Description

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 evmed

[no] feature evmed

Syntax Description

Syntax Description	no (Optional) Negate a command or set its defaults
---------------------------	--

feature	Command to enable/disable features
---------	------------------------------------

evmed	Enable/Disable Generic event detectors
-------	--

Command Mode

- /exec/configure

feature fabric forwarding

[no] feature fabric forwarding

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
fabric	Enable/Disable Fabric Services
forwarding	Enable/Disable Fabric Forwarding Protocol: Host Mobility Manager (HMM)

Command Mode

- /exec/configure

feature interface-vlan

[no] feature interface-vlan

Syntax Description

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

Syntax Description

no (Optional) Negate a command or set its defaults

feature Command to enable/disable features

isis Enable/Disable IS-IS Unicast Routing Protocol (IS-IS)

Command Mode

- /exec/configure

feature lacp

[no] feature lacp

Syntax Description

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

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

Syntax Description	
no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
lldp	Enable/Disable LLDP

Command Mode

- /exec/configure

feature msdp

[no] feature msdp

Syntax Description

Syntax Description

no (Optional) Negate a command or set its defaults

feature Command to enable/disable features

msdp Enable/Disable Multicast Source Discovery Protocol (MSDP)

Command Mode

- /exec/configure

feature nat

[no] feature nat

Syntax Description

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 ntp

[no] feature ntp

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its default
feature	Command to enable/disable features
ntp	Enable/Disable NTP

Command Mode

- /exec/configure

feature nxapi

[no] feature nxapi

Syntax Description

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

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 ospf

[no] feature ospf

Syntax Description

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

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

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

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

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

Syntax Description

no (Optional) Negate a command or set its defaults

feature Command to enable/disable features

pim6 Enable/Disable Protocol Independent Multicast (PIM) for IPv6

Command Mode

- /exec/configure

feature poap

[no] feature poap

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
poap	Enable/Disable POAP

Command Mode

- /exec/configure

feature privilege

[no] feature privilege

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	feature	Command to enable/disable features
	privilege	Enable/Disable IOS type privilege level support

Command Mode

- /exec/configure

feature rip

[no] feature rip

Syntax Description

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 rise

[no] feature rise

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
rise	Enable/Disable RISE

Command Mode

- /exec/configure

feature scheduler

[no] feature scheduler

Syntax Description

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

Syntax	Description
no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
scp-server	Enable/Disable SCP server

Command Mode

- /exec/configure

feature sftp-server

[no] feature sftp-server

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
sftp-server	Enable/Disable SFTP server

Command Mode

- /exec/configure

feature ssh

[no] feature ssh

Syntax Description

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

Syntax	Description
no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features

Command Mode

- /exec/configure

feature telemetry

[no] feature telemetry

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
telemetry	Enable/Disable Telemetry

Command Mode

- /exec/configure

feature telnet

[no] feature telnet

Syntax Description

Syntax	Description
no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
telnet	Enable/Disable telnet

Command Mode

- /exec/configure

feature vtp

[no] feature vtp

Syntax Description

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

Syntax Description	
no	Negate a command or set its defaults
fec	Forwarding error correction
<i>fec_val</i>	Interface FEC options

Command Mode

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

fhrp delay minimum

[no] fhrp delay minimum | fhrp delay minimum <delay>

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
fhrp		FHRP interface configuration commands
delay		Configure FHRP delay
minimum	minimum	delay
<i>delay</i>		Seconds to delay

Command Mode

- /exec/configure/if-eth-any /exec/configure/if-vlan

fhrp delay reload

[no] fhrp delay reload | fhrp delay reload <delay>

Syntax Description

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

filesys delete

filesys delete <s0>

Syntax Description

Syntax Description

filesys file system command

delete delete a file on file system

s0 file name

Command Mode

- /exec

filter

[no] filter [subject-name <s0> | altname-email <s1> | altname-upn <s2>]

Syntax Description

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 out

[no | default] { filter-list <fltrlist-name> } { out | in }

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
default	(Optional)	Inherit values from a peer template
filter-list		Apply AS-PATH filter-list
<i>fltrlist-name</i>		Name of filter-list
out		Apply policy to outgoing routes
in		Apply policy to incoming routes

Command Mode

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

find

find <s0>

Syntax Description

Syntax Description

fd Find a file below the current directory

s0 Enter the filename prefix to search

Command Mode

- /exec

fips debug errors debug

[no] fips debug errors { debug-lc-post-on-maint | reset-debug-lc-post-on-maint }

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
fips	Enable/Disable FIPS mode	
debug	Introduce errors into FIPS tests	
errors	Introduce errors	
debug-lc-post-on-maint	Run the switch on debug mode for fips maintenance state	
reset-debug-lc-post-on-maint	Reset the mode from debug-lc-post-on-maint	

Command Mode

- /exec/

fips mode enable

[no] fips mode enable

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
fips	Enable/Disable FIPS mode
mode	FIPS mode
enable	Enable/Disable FIPS mode

Command Mode

- /exec/configure

flow exporter

[no] flow exporter <exportername>

Syntax Description

Syntax Description		
	flow	Enable/Disable NetFlow configuration
	exporter	Define a Flow Exporter
	<i>exportername</i>	Name of Flow Exporter

Command Mode

- /exec/configure

flow forward

[no] flow { forward | reverse }

Syntax Description

Syntax Description

no (Optional) Negate a command or set its defaults

flow Configure ngoam flow

forward Ngoam forward flow

reverse Ngoam reverse flow

Command Mode

- /exec/configure/configngoamprofile

flow monitor

[no] flow monitor <monitorname>

Syntax Description

Syntax Description		
	flow	Enable/Disable NetFlow configuration
	monitor	Define a Flow Monitor
	<i>monitorname</i>	Name of Flow Monitor

Command Mode

- /exec/configure

flow record

[no] flow record <recordname>

Syntax Description

Syntax Description		
	flow	Enable/Disable NetFlow configuration
	record	Define a Flow Record
	<i>recordname</i>	Record name

Command Mode

- /exec/configure

flow timeout

{ [no] flow timeout <time> | no flow timeout }

Syntax Description

Syntax Description	<i>flow</i>	Enable/Disable NetFlow configuration
	<i>timeout</i>	Define a Flow Timeout
	<i>time</i>	Time in seconds (flush-cache-Only for F2 cards)

Command Mode

- /exec/configure

flow timeout active

{ [no] flow timeout active <time> | no flow timeout active }

Syntax Description

Syntax Description	<i>flow</i>	Enable/Disable NetFlow configuration
	<i>timeout</i>	Define a Flow Timeout
	<i>active</i>	Active or long timeout
	<i>time</i>	Time in seconds

Command Mode

- /exec/configure

flow timeout aggressive threshold

{ [no] flow timeout aggressive threshold <percentage> | no flow timeout aggressive }

Syntax Description

Syntax Description	flow	Enable/Disable NetFlow configuration
	timeout	Define a Flow Timeout
	aggressive	Aggressive aging
	threshold	Threshold to start the aggressive aging
	<i>percentage</i>	Percentage of NetFlow Table full

Command Mode

- /exec/configure

flow timeout fast threshold

{ [no] flow timeout fast <time> threshold <packets> | no flow timeout fast }

Syntax Description

Syntax Description	<i>flow</i>	Enable/Disable NetFlow configuration
	<i>timeout</i>	Define a Flow Timeout
	<i>fast</i>	Fast aging timeout
	<i>time</i>	Time in seconds
	<i>threshold</i>	Threshold to start fast aging
	<i>packets</i>	Number of packets in flow before timeout for the flow to not expire

Command Mode

- /exec/configure

flow timeout inactive

```
{ [ no ] flow timeout inactive <time> | no flow timeout inactive }
```

Syntax Description

Syntax Description	<i>flow</i>	Enable/Disable NetFlow configuration
	<i>timeout</i>	Define a Flow Timeout
	<i>inactive</i>	inactive or normal timeout
	<i>time</i>	Time in seconds

Command Mode

- /exec/configure

flow timeout session

[no] flow timeout session

Syntax Description

Syntax Description	
flow	Enable/Disable NetFlow configuration
timeout	Define a Flow Timeout
session	Enable TCP session aging

Command Mode

- /exec/configure

flowcontrol hardware

[no] flowcontrol hardware

Syntax Description

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

Syntax Description		
no		Negate a command or set its defaults
flowcontrol		Configure interface flowcontrol
receive		Receive pause frames
<i>rx_flowctrl</i>		Receive flow control
send		Send pause frames
<i>tx_flowctrl</i>		Send flow control

Command Mode

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

flush-routes

[no] flush-routes

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	flush-routes	Flush routes in RIB upon controlled restart

Command Mode

- /exec/configure/router-bgp

flush-routes

[no] flush-routes

Syntax Description

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

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

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

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

Syntax Description	
no	(Optional) Negate a command or set its defaults
flush-routes	Flush routes on a non-graceful controlled restart

Command Mode

- /exec/configure/router-ospf3

follow

follow <name> | no follow

Syntax Description

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

forceshut reset-reason

```
forceshut [ { module <module> | <s0> <santa-cruz-range> | zone <zonenumber> <subzone> } ] reset-reason
<reset_reason_string>
```

Syntax Description

Syntax Description		
forceshut		Force the entire switch to shut down
module		(Optional) Optional. Module to be forceshut(optional arg)
<i>module</i>		(Optional) please enter the module number
<i>s0</i>		(Optional) Power off a specific xbar
<i>santa-cruz-range</i>		(Optional) please enter the xbar number
zone		(Optional) Optional. Zone to be forceshut(optional arg)
<i>zonenumber</i>		(Optional) please enter the zone number
<i>subzone</i>		(Optional) please enter the subzone number
reset-reason		Shut down (with reset-reason)
<i>reset_reason_string</i>		please enter reset_reason_string in quotes

Command Mode

- /exec

format bootflash

format bootflash:

Syntax Description

Syntax Description

format Format disks

bootflash: Format
bootflash:

Command Mode

- /exec

format bootflash check-filesystem

format bootflash: check-filesystem

Syntax Description

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

Syntax Description

format Format
disks

usb1: Format
usb1:

Command Mode

- /exec

format usb2

format usb2:

Syntax Description

Syntax Description

`format` Format disks

`usb2:` Format usb2:

Command Mode

- /exec

forward

[no] forward

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
forward	Configure paths

Command Mode

- /exec/configure/mpls_static/ipv4/lsp/inlabel

forwarder preempt

[no] forwarder preempt [delay minimum <min-delay>]

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	forwarder	Forwarder Configuration
	preempt	Overthrow lower priority designated routers
	delay	(Optional) Wait before preempting
	minimum	(Optional) Delay at least this long
	<i>min-delay</i>	(Optional) Number of seconds for minimum delay

Command Mode

- /exec/configure/if-eth-any/global

forwarding-adjacency

[no] forwarding-adjacency | forwarding-adjacency [holdtime <msec>]

Syntax Description

Syntax Description

no	Negate a command or set its defaults
forwarding-adjacency	Treat this tunnel as a Forwarding Adjacency
holdtime	(Optional) How long in msec to wait upon flooding a down Forwarding Adjacency
<i>msec</i>	(Optional) Holdtime on MPLS TE Down

Command Mode

- /exec/configure/if-te

fragments

[no] fragments <opt_type>

Syntax Description

Syntax Description	no (Optional) Negate a command or set its defaults
	<i>opt_type</i> frag_op_type

Command Mode

- /exec/configure/ipacl /exec/configure/ipv6acl

frequency

{ { no | default } frequency | frequency <seconds> }

Syntax Description

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

from to

```
[no] { { from <frm-list> to <to-val> } | { default { <value> | copy | ignore } } }
```

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
from	Map values from this
<i>frm-list</i>	Original list of values which are to be mapped
to	Map values to this
<i>to-val</i>	New mapped value
default	map default values
<i>value</i>	default value to be set
copy	Do a default copy
ignore	Ignore any unspecified values

Command Mode

- /exec/configure/table-map

from to

```
{ [ no ] { { from <frm-list> to <to-val> } | { default <value> } } } | default copy
```

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
from	Map values from this
<i>frm-list</i>	Original list of values which are to be mapped
to	Map values to this
<i>to-val</i>	New mapped value
default	map default values
<i>value</i>	default value to be set
copy	Do a default copy

Command Mode

- /exec/configure/def-tmap



G Commands

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generate type7_encrypted_secret

generate type7_encrypted_secret

Syntax Description

Syntax Description

generate	generate
----------	----------

type7_encrypted_secret	Type 7 Encrypted Secret
------------------------	-------------------------

Command Mode

- /exec

getnext

| getnext

Syntax Description

Syntax Description

| Pipe command output to filter

getnext return next instance instead of specified one, or first instance if none specified (if supported by feature)

Command Mode

- /output

global-block

[no] global-block <min-srgb-label> <max-srgb-label>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
global-block	Specify global block range for Segment Routing bindings
<i>min-srgb-label</i>	Minimum label value
<i>max-srgb-label</i>	Maximum label value

Command Mode

- /exec/configure/ulib

graceful-restart-helper

[no] graceful-restart-helper

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
graceful-restart-helper	Configure Graceful Restart Helper mode functionality

Command Mode

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

graceful-restart

[no] graceful-restart

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
graceful-restart	Configure Graceful Restart functionality

Command Mode

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

graceful-restart

[no] graceful-restart [planned-only]

Syntax Description

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

Syntax Description	no	(Optional) Negate a command or set its defaults
	graceful-restart	Enable graceful restart for IS-IS

Command Mode

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

graceful-restart

```
{ { [ no ] [ eigrp ] graceful-restart } | { [ no ] nsf } }
```

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
eigrp	(Optional) EIGRP router configuration commands
graceful-restart	Peer resync without adjacency reset
nsf	Non-stop forwarding

Command Mode

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

graceful-restart

```
graceful-restart [ timers { forwarding-holding <fwdg-holdtime> | max-recovery <recovery-time> |
neighbor-liveness <peer-liveness-time> } ] | no graceful-restart [ timers { forwarding-holding | max-recovery
| neighbor-liveness } ]
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
graceful-restart		Configure LDP Graceful Restart
timers	(Optional)	Configure Graceful Restart timers
forwarding-holding	(Optional)	Forwarding State Holding time
<i>fwdg-holdtime</i>	(Optional)	seconds
max-recovery	(Optional)	Max-Recovery time
<i>recovery-time</i>	(Optional)	seconds
neighbor-liveness	(Optional)	Neighbor-Liveness time
<i>peer-liveness-time</i>	(Optional)	seconds

Command Mode

- /exec/configure/ldp

graceful-restart

[no] graceful-restart

Syntax Description

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

Syntax Description

no (Optional) Negate a command or set its defaults

graceful-restart Configure graceful restart

planned-only (Optional) Enable graceful restart only for a planned restart

Command Mode

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

graceful-restart grace-period

[no] graceful-restart grace-period <grace-period>

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	graceful-restart	Configure graceful restart
	grace-period	Configure maximum interval to restart gracefully
	<i>grace-period</i>	Grace period in seconds

Command Mode

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

graceful-restart grace-period

[no] graceful-restart grace-period <grace-period>

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	graceful-restart	Configure graceful restart
	grace-period	Configure maximum interval to restart gracefully
	<i>grace-period</i>	Grace period in seconds

Command Mode

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

graceful-restart helper-disable

[no] graceful-restart helper-disable

Syntax Description

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

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

Syntax Description	
no	Negate a command or set its defaults
graceful-restart	Configure Graceful Restart functionality
restart-time	Maximum time for restart advertised to peers
<i>restart-time</i>	Restart time (seconds)

Command Mode

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

graceful-restart stalepath-time

graceful-restart stalepath-time <stalepath-time> | no graceful-restart stalepath-time [<stalepath-time>]

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
graceful-restart		Configure Graceful Restart functionality
stalepath-time		Maximum time to keep a restarting peer's stale routes
<i>stalepath-time</i>		Stalepath time (seconds)

Command Mode

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

graceful-restart t3 manual

graceful-restart t3 manual <sec> | no graceful-restart t3 manual [<sec>]

Syntax Description

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-restart t3 manual

graceful-restart t3 manual <sec> | no graceful-restart t3 manual [<sec>]

Syntax Description

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 consistency-check

[no] graceful consistency-check

Syntax Description

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

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

Syntax Description

| Pipe command output to filter

grep Grep - print lines matching a pattern

egrep Egrep - print lines matching a pattern

-c (Optional) Print a total count of matching lines only

-i (Optional) Ignore case difference when comparing strings

-n (Optional) Print each match preceded by its line number

-v (Optional) Print only lines that contain no matches for <expr>

-w (Optional) Print only lines where the match is a complete word

-x (Optional) Print only lines where the match is a whole line

ctx (Optional) Print <num> lines of context on each side of every match

-A (Optional) Print <num> lines of context after every matching line

-B (Optional) Print <num> lines of context before every matching line

num (Optional) Print <num> lines of context

expr Search for the expression

Command Mode

- /output

grep

| { grep | egrep } [-c | -i | -n | -v | -w | -x | <ctx> | -A <num> | -B <num>] + [--] <expr>

Syntax Description

Syntax Description

| Pipe command output to filter

grep Grep

egrep Egrep

-c (Optional) Print a total count of matching lines only

-i (Optional) Ignore case difference when comparing strings

-n (Optional) Print each match preceded by its line number

-v (Optional) Print only lines that contain no matches for <expr>

-w (Optional) Print only lines where the match is a complete word

-x (Optional) Print only lines where the match is a whole line

ctx (Optional) Print <num> lines of context on each side of every match

-A (Optional) Print <num> lines of context after every matching line

-B (Optional) Print <num> lines of context before every matching line

num (Optional) Print <num> lines of context

-- (Optional) --

expr Search for the expression

Command Mode

- /output

guestshell

```
guestshell [ { enable [ { package <enable_uri> } ] } | { upgrade [ { package <upgrade_uri> } ] } | { disable }
| { destroy } | { reboot } | <sync_cmd_name> | { resize { rootfs <gsh_rootfs> | cpu <gsh_cpu> | memory
<gsh_memory> } } | { run { <cmd_args> } } ]
```

Syntax Description

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
disable	(Optional) Disable the guest shell service package
destroy	(Optional) Disable and uninstall the guest shell service package
<i>sync_cmd_name</i>	(Optional) Synchronize the contents of the guest shell to standby supervisor
reboot	(Optional) Deactivate and reactivate the guest shell service
resize	(Optional) Resize the existing/default guest shell parameters
rootfs	(Optional) Resize the guest shell root filesystem to a larger value
<i>gsh_rootfs</i>	(Optional) New root filesystem size (in MB)
cpu	(Optional) Resize the system CPU share allocated to guest shell
<i>gsh_cpu</i>	(Optional) New CPU share allocation (as % of system CPU)
memory	(Optional) Resize the system memory allocated to guest shell
<i>gsh_memory</i>	(Optional) New memory size (in MB)
package	(Optional) Package location
<i>enable_uri</i>	(Optional) File name (with .ova extension) for the virtual service
<i>upgrade_uri</i>	(Optional) File name (with .ova extension) for the virtual service
run	(Optional) Execute/run program in the guest shell
<i>cmd_args</i>	(Optional) Executable with optional arguments

Command Mode

- /exec

gunzip

gunzip <uri0>

Syntax Description

Syntax Description

gunzip Uncompresses LZ77 coded files

uri0 Enter filename (filename must have .gz extension)

Command Mode

- /exec

gzip

gzip <uri0>

Syntax Description

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

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

ha-stateful

[no] ha-stateful

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
ha-stateful	Enable stateful OSPF HA

Command Mode

- /exec/configure/router-ospf

hardware access-list lou resource threshold

[no] hardware access-list lou resource threshold <threshold>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
hardware	Hardware Internal Information
access-list	Access Control List
lou	LOU
resource	hardware resource
threshold	port expansion threshold
<i>threshold</i>	value of threshold

Command Mode

- /exec/configure

hardware access-list match inner-header

[no] hardware access-list match inner-header

Syntax Description

Syntax Description	
no	(Optional) Negate the command or set its defaults
hardware	Change hardware usage settings
access-list	Access Control List
match	Match criteria in ACL
inner-header	Match inner header fields in IPinIP/GRE packets

Command Mode

- /exec/configure

hardware access-list module

[no] hardware access-list { resource-pooling | resource pooling } module <module-number>

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
hardware	Show hardware information	
access-list	Access Control List	
resource-pooling	Enable ACL programming across TCAM banks	
resource	hardware resource	
pooling	Enable ACL programming across TCAM banks	
module	module number	
<i>module-number</i>	specify module number	

Command Mode

- /exec/configure

hardware access-list tcam region

[no] hardware access-list tcam region <type> <tcam_size>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
hardware	Hardware Internal Information
access-list	Access Control List
tcam	Configure tcam parameters
region	Configure tcam region
<i>type</i>	Region type
<i>tcam_size</i>	Enter tcam size

Command Mode

- /exec/configure

hardware access-list tcam region double-wide

[no] hardware access-list tcam region <double-wide-region> <tcam_size> double-wide

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
hardware		Hardware Internal Information
access-list		Access Control List
tcam		Configure tcam parameters
region		Configure tcam region
<i>double-wide-region</i>		Region type
<i>tcam_size</i>		Enter tcam size
double-wide		Double Width

Command Mode

- /exec/configure

hardware access-list tcam region double-wide

[no] hardware access-list tcam region <arp-ether> <arpether_tcam_size> double-wide

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
hardware	Hardware Internal Information	
access-list	Access Control List	
tcam	Configure tcam parameters	
region	Configure tcam region	
<i>arp-ether</i>	Region type	
<i>arpether_tcam_size</i>	Enter tcam size	
double-wide	Double Width	

Command Mode

- /exec/configure

hardware access-list tcam region qualify udf

[no] hardware access-list tcam region <udf_tcam_type> qualify udf { <udf_name> } +

Syntax Description

Syntax Description		
no	(Optional) Negate the command	
hardware	Change hardware usage settings	
access-list	Access Control List	
tcam	Configure tcam parameters	
region	Configure tcam region	
<i>udf_tcam_type</i>	Region type	
qualify	Configure UDFs to be qualified for span region	
udf	Configure UDF names	
<i>udf_name</i>	UDF name	

Command Mode

- /exec/configure

hardware ecmp hash-offset

[no] hardware ecmp hash-offset <value> [concatenation]

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
hardware		Change hardware usage settings
ecmp		ECMP configuration
hash-offset		Configure hash offset
<i>value</i>		Hash offset 0-15 non-concatenate mode, 0-63 concatenate mode
concatenation	(Optional)	Configure hash concatenation

Command Mode

- /exec/configure

hardware ecmp hash-polynomial

hardware ecmp hash-polynomial <poly-type> | no hardware ecmp hash-polynomial

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
hardware		Change hardware usage settings
ecmp		ECMP configuration
hash-polynomial		Configure hash polynomial
<i>poly-type</i>		Polynomial type

Command Mode

- /exec/configure

hardware ejector enable

[no] hardware ejector enable

Syntax Description

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

Syntax Description		
no	(Optional) Negate a command or set its defaults	
hardware	Hardware Internal Information	
fan-zone	Fan Zone supported in the switch	
<i>fan_zone_id</i>	please enter fan zone id whose speed needs to be increased	
raise-speed	Speed to be added for current fan zone speed	
<i>speed-to-raise</i>	please enter additional fan speed	

Command Mode

- /exec/configure

hardware forwarding funcstats clear

hardware forwarding funcstats clear

Syntax Description

Syntax Description	hardware	Change hardware usage settings
	forwarding	Change forwarding related settings
	funcstats	Enable/disable funcstats
	clear	Clear funcstats information

Command Mode

- /exec

hardware forwarding funcstats disable

hardware forwarding funcstats disable

Syntax Description

Syntax Description	hardware	Change hardware usage settings
	forwarding	Change forwarding related settings
	funcstats	Enable/disable funcstats
	disable	Disable funcstats recording and output

Command Mode

- /exec

hardware forwarding funcstats enable

hardware forwarding funcstats enable

Syntax Description

Syntax Description	hardware	Change hardware usage settings
	forwarding	Change forwarding related settings
	funcstats	Enable/disable funcstats
	enable	Enable funcstats recording and output

Command Mode

- /exec

hardware forwarding l3 resource route non-deterministic

[no] hardware forwarding l3 resource route non-deterministic

Syntax Description

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

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

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

Syntax Description		
no		Negate a command or set its defaults
hardware		Hardware information
ip		IP
glean		Glean
throttle		Throttle
maximum		Maximum number of entries
<i>count</i>		Count

Command Mode

- /exec/configure

hardware ip glean throttle syslog

{ hardware ip glean throttle syslog <pkt-count> } | { no hardware ip glean throttle syslog }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
hardware		Hardware information
ip		IP
glean		Glean
throttle		Throttle
syslog		Threshold for syslog for number of packets hitting the entry
<i>pkt-count</i>		Packet count

Command Mode

- /exec/configure

hardware ip glean throttle timeout

{ hardware ip glean throttle timeout <timeout-in-sec> } | { no hardware ip glean throttle timeout }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
hardware		Hardware information
ip		IP
glean		Glean
throttle		Throttle
timeout		Timeout
<i>timeout-in-sec</i>		Timeout value in seconds (should be multiple of 30, else will be rounded off to nearest boundary)

Command Mode

- /exec/configure

hardware ipv6 glean throttle

[no] hardware ipv6 glean throttle

Syntax Description

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

Syntax Description		
no		Negate a command or set its defaults
hardware		Hardware information
ipv6		IPv6
glean		Glean
throttle		Throttle
maximum		Maximum number of entries
<i>count</i>		Count

Command Mode

- /exec/configure

hardware ipv6 glean throttle syslog

```
{ hardware ipv6 glean throttle syslog <pkt-count> } | { no hardware ipv6 glean throttle syslog }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
hardware		Hardware information
ipv6		IPv6
glean		Glean
throttle		Throttle
syslog		Threshold for syslog for number of packets hitting the entry
<i>pkt-count</i>		Packet count

Command Mode

- /exec/configure

hardware ipv6 glean throttle timeout

{ hardware ipv6 glean throttle timeout <timeout-in-sec> } | { no hardware ipv6 glean throttle timeout }

Syntax Description

Syntax Description

no	Negate a command or set its defaults
hardware	Hardware information
ipv6	IPv6
glean	Glean
throttle	Throttle
timeout	Timeout
<i>timeout-in-sec</i>	Timeout value in seconds (should be multiple of 30, else will be rounded off to nearest boundary)

Command Mode

- /exec/configure

hardware module boot-order reverse

[no] hardware module boot-order reverse

Syntax Description

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

Syntax Description	
no	(Optional) Negate a command or set its defaults
hardware	Change hardware usage settings
profile	profile settings
buffer	System buffer
info	Information
poll-interval	System buffer status polling interval
module	(Optional) Slot/module
<i>module</i>	(Optional) Slot/module number
timer	Polling timer
<i>msec</i>	Polling timer value in msec

Command Mode

- /exec/configure

hardware profile buffer info port-threshold threshold

[no] hardware profile buffer info port-threshold [module <module>] threshold <value>

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
hardware		Change hardware usage settings
profile		profile settings
buffer		System buffer
info		Information
port-threshold		Set port egress buffer usage threshold
module	(Optional)	Slot/module
<i>module</i>	(Optional)	Slot/module number
threshold		threshold value
<i>value</i>		percentage of maximum usage

Command Mode

- /exec/configure

hardware profile ecmp auto-recovery threshold

hardware profile ecmp auto-recovery threshold <percentage> | no hardware profile ecmp auto-recovery threshold

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
hardware		Change hardware usage settings
profile		profile settings
ecmp		ECMP settings
auto-recovery		ECMP auto-recovery settings
threshold		ECMP table free percentage threshold for auto-recovery
<i>percentage</i>		Percentage

Command Mode

- /exec/configure

hardware profile ecmp resilient

[no] hardware profile ecmp resilient

Syntax Description

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

Syntax Description		
no		Negate a command or set its defaults
hardware		Change hardware usage settings
profile		profile settings
front		port 1 QSFP/SFP+ settings
portmode		QSFP or SFP+
<i>port-mode</i>		Configure QSFP/sfp+ port mode

Command Mode

- /exec/configure

hardware profile ipv6 alpm carve-value

[no] hardware profile ipv6 alpm carve-value <ipv6_alpm_carve_value>

Syntax Description

Syntax Description		
no	(Optional)	Negate the command
hardware		Change hardware usage settings
profile		profile settings
ipv6		ipv6
alpm		alpm mode
carve-value		carve value
<i>ipv6_alpm_carve_value</i>		maximum entries

Command Mode

- /exec/configure

hardware profile ipv6 lpm-entries maximum

[no] hardware profile ipv6 lpm-entries maximum <ipv6_lpm_max_entry>

Syntax Description

Syntax Description		
no	(Optional)	Negate the command
hardware		Change hardware usage settings
profile		profile settings
ipv6		ipv6
lpm-entries		lpm(non-host) entries
maximum		maximum limit
<i>ipv6_lpm_max_entry</i>		maximum entries

Command Mode

- /exec/configure

hardware profile multicast max-limit

{ hardware profile multicast max-limit <mcast-ent> } | { no hardware profile multicast max-limit }

Syntax Description

Syntax Description		
no		Negate the command
hardware		Change hardware usage settings
profile		profile settings
multicast		Multicast settings
max-limit		maximum limit for multicast entries
<i>mcast-ent</i>		Mcast Table Entries

Command Mode

- /exec/configure

hardware profile multicast max-limit lpm-entries

[no] hardware profile multicast max-limit lpm-entries <ipv4_mcast_lpm_max_entry>

Syntax Description

Syntax Description		
no	(Optional) Negate the command	
hardware	Change hardware usage settings	
profile	profile settings	
multicast	Multicast settings	
max-limit	maximum limit for multicast entries	
lpm-entries	lpm(non-host) entries	
<i>ipv4_mcast_lpm_max_entry</i>	maximum entries	

Command Mode

- /exec/configure

hardware profile multicast prefer-source-tree

[no] hardware profile multicast prefer-source-tree [eternity [limit <max-limit>]]

Syntax Description

Syntax Description		
no	(Optional)	Negate the command
hardware		Change hardware usage settings
profile		profile settings
multicast		Multicast settings
prefer-source-tree		prefer the source tree
eternity	(Optional)	prefer source tree for eternity and not for just 2 minutes
limit	(Optional)	Configure a limit for the number of hardware entries used
<i>max-limit</i>	(Optional)	Number of (S,G) for which source tree is preferred

Command Mode

- /exec/configure

hardware profile multicast syslog-threshold

[no] hardware profile multicast syslog-threshold <percentage>

Syntax Description

Syntax Description		
no	(Optional)	Negate the command
hardware		Change hardware usage settings
profile		profile settings
multicast		Multicast settings
syslog-threshold		MROUTE table syslog threshold
<i>percentage</i>		Percentage (Default is 90)

Command Mode

- /exec/configure

hardware profile openflow

```
[no] hardware profile { openflow [ agent default { drop | normal } ] | { tap-aggregation [ l2drop ] } }
```

Syntax Description

Syntax Description		
no	(Optional)	Negate the command
hardware		Hardware Internal Information
profile		Profile
openflow		Openflow
tap-aggregation		Tap Aggregation
l2drop	(Optional)	Drop non IP traffic ingress on mode tap interfaces
agent	(Optional)	Act as Openflow Agent
default	(Optional)	Specify default action for frames which don't match any flow
drop	(Optional)	Drop all frames that miss MAC
normal	(Optional)	[default]Flood unknown traffic

Command Mode

- /exec/configure

hardware profile pfc mmu buffer-reservation

[no] hardware profile pfc mmu buffer-reservation <percentage>

Syntax Description

Syntax Description		
no	(Optional) Negate the command	
hardware	Hardware Internal Information	
profile	profile settings	
pfc	System level priority-flow-control settings	
mmu	Hardware memory management unit configuration	
buffer-reservation	Shared pool buffer reservation	
<i>percentage</i>	Percentage of shared pool buffers to be reserved	

Command Mode

- /exec/configure

hardware profile portmode

{ hardware profile portmode <port-mode> [2-tuple] } | no hardware profile portmode

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
hardware		Change hardware usage settings
profile		profile settings
portmode		QSFP port mode setting
<i>port-mode</i>		Configure QSFP port mode
2-tuple		(Optional) Display QSFP portnames in 2-tuple mode even in 10G mode

Command Mode

- /exec/configure

hardware profile tcam ipv6-sup-tcam match-inner

```
{ hardware profile tcam ipv6-sup-tcam match-inner } | { no hardware profile tcam ipv6-sup-tcam match-inner }  
}
```

Syntax Description

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 ] }
```

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
hardware		Hardware Internal Information
profile		profile
tcam		Configure tcam parameters
region		Configure tcam region
ifacl		IPV4 PAACL size
double-wide	(Optional)	Configure tcam as double wide
<i>tcam_compat_type</i>		
<i>tcam_compat_size</i>		Enter tcam size

Command Mode

- /exec/configure

hardware profile tcam region span qualify udf

[no] hardware profile tcam region span qualify udf { <udf_name> } +

Syntax Description

Syntax Description	
no	(Optional) Negate the command
hardware	Change hardware usage settings
profile	Profile settings
tcam	Configure tcam parameters
region	Configure tcam region
span	Configure for span region
qualify	Configure UDFs to be qualified for span region
udf	Configure UDF names
<i>udf_name</i>	UDF name

Command Mode

- /exec/configure

hardware profile tcam resource service-template

[no] hardware profile tcam resource service-template { <name> } [module { <lc> | <fm> }]

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
hardware		Change hardware usage settings
profile		Profile settings
tcam		Configure tcam parameters
resource		Configure tcam hardware resources
service-template		Commit template
<i>name</i>		Select name of template
module	(Optional)	Specify a module number
<i>lc</i>	(Optional)	line card number
<i>fm</i>	(Optional)	fabric module number

Command Mode

- /exec/configure handle auto 424

hardware profile tcam resource template

```
[no] hardware profile tcam resource template { <name> { ref-template <temp-nontahoe> | ref-template-tahoe
<temp-tahoe> } }
```

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
hardware	Change hardware usage settings	
profile	Profile settings	
tcam	Configure tcam parameters	
resource	Configure tcam hardware resources	
template	Configure template based tcam carving parameters	
ref-template	Select a default template as reference	
<i>temp-nontahoe</i>		
ref-template-tahoe	Select a default template as reference	
<i>temp-tahoe</i>		
<i>name</i>	Create/Select name of custom template	

Command Mode

- /exec/configure

hardware profile ucast6 lpm-65-to-127-max-limit

{ hardware profile ucast6 lpm-65-to-127-max-limit <unicast-ent> } | { no hardware profile ucast6 lpm-65-to-127-max-limit }

Syntax Description

Syntax Description		
no		Negate the command
hardware		Change hardware usage settings
profile		profile settings
ucast6		unicast ipv6 settings
lpm-65-to-127-max-limit		maximum limit for unicast ipv6 lpm-65-to-127 entries, default is 256
<i>unicast-ent</i>		Unicast ipv6 lpm-65-to-127 Table Entries

Command Mode

- /exec/configure

hardware profile ucast6 max-limit

{ hardware profile ucast6 max-limit <unicast-ent> } | { no hardware profile ucast6 max-limit }

Syntax Description

Syntax Description		
no		Negate the command
hardware		Change hardware usage settings
profile		profile settings
ucast6		unicast ipv6 settings
max-limit		maximum limit for unicast ipv6 entries
<i>unicast-ent</i>		Unicast ipv6 Table Entries

Command Mode

- /exec/configure

hardware profile unicast enable-host-ecmp

[no] hardware profile unicast enable-host-ecmp [arp-nd | [ipv4 [arp]] | [ipv6 [nd]]]

Syntax Description

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

Syntax Description		
no		Negate the command
hardware		Change hardware usage settings
profile		profile settings
unicast		Unicast settings
syslog-threshold		Unicast Route table syslog threshold
<i>percentage</i>		Percentage

Command Mode

- /exec/configure

hardware sample-redirect module redirect-interface

hardware sample-redirect module <num> redirect-interface <interface>

Syntax Description

Syntax Description		
hardware	Change hardware usage settings	
sample-redirect	Redirect netflow sampled data	
module	Line card module	
<i>num</i>	slot number	
redirect-interface	Interface for redirecting the traffic	
<i>interface</i>	Interface Name	

Command Mode

- /exec

head

| head [-n <lines>]

Syntax Description

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

Syntax Description	no	Negate a command or set its defaults
	hello-interval	Hello interval
	<i>interval</i>	(seconds)

Command Mode

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

hello-interval

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

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	hello-interval	Hello interval
	<i>interval</i>	(seconds)

Command Mode

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

hello-interval

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

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	hello-interval	Hello interval
	<i>interval</i>	(seconds)

Command Mode

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

hex

hex <expr>

Syntax Description

Syntax Description

hex calculator with results in decimal format

expr the expression to compute (integer arithmetics)

Command Mode

- /exec

history

```
{ no | default } history { { buckets-kept } | { distributions-of-statistics-kept } | { enhanced [ interval [
<interval-seconds> [ buckets [ <num-buckets> ] ] ] ] } | { filter } | { hours-of-statistics-kept } | { lives-kept }
| { statistics-distribution-interval } }
```

Syntax Description

Syntax Description

no	
<i>interval</i>	(Optional) buckets
default	Set a command to its defaults
history	History and Distribution Data
buckets-kept	Maximum number of history buckets to collect
distributions-of-statistics-kept	Maximum number of statistics distribution buckets to capture
enhanced	Enable enhanced history collection
<i>interval-seconds</i>	(Optional) Interval in seconds
buckets	(Optional) Number of buckets to collect data
<i>num-buckets</i>	(Optional) Number of buckets
filter	Add operation to History when...
hours-of-statistics-kept	Maximum number of statistics hour groups to capture
lives-kept	Maximum number of history lives to collect
statistics-distribution-interval	Statistics distribution interval size

Command Mode

- /exec/configure/ip-sla/udp /exec/configure/ip-sla/tcp /exec/configure/ip-sla/icmpEcho

history

```
history { { buckets-kept <num-buckets-kept> } | { distributions-of-statistics-kept <num-dist-stats> } | {
enhanced [ interval [ <interval-seconds> [ buckets [ <num-buckets> ] ] ] } | { filter { all | failures | none |
overThreshold } } | { hours-of-statistics-kept <num-hours-of-stats> } | { lives-kept <life-size-value> } | {
statistics-distribution-interval <dist-interval> } }
```

Syntax Description

Syntax Description

<i>interval</i>	(Optional) buckets
<i>interval-seconds</i>	(Optional) <num-buckets>
<i>life-size-value</i>	<dist-interval>
history	History and Distribution Data
buckets-kept	Maximum number of history buckets to collect
<i>num-buckets-kept</i>	Bucket size value (default 15)
distributions-of-statistics-kept	Maximum number of statistics distribution buckets to capture
<i>num-dist-stats</i>	Distribution bucket size value (default 1)
enhanced	Enable enhanced history collection
buckets	(Optional) Number of buckets to collect data
<i>num-buckets</i>	(Optional) Number of buckets
filter	Add operation to History when...
all	Collect every operation in History
failures	Collect operations that fail in History
none	Shutoff History collection
overThreshold	Collect operations that are over threshold in History
hours-of-statistics-kept	Maximum number of statistics hour groups to capture
<i>num-hours-of-stats</i>	Hour groups size value (default 2)
lives-kept	Maximum number of history lives to collect
statistics-distribution-interval	Statistics distribution interval size
<i>dist-interval</i>	Distribution interval value in msec (default 20)

Command Mode

- /exec/configure/ip-sla/udp /exec/configure/ip-sla/tcp /exec/configure/ip-sla/icmpEcho

history

```
{ no | default } history { { buckets-kept } | { distributions-of-statistics-kept } | { filter } | {
hours-of-statistics-kept } | { lives-kept } | { statistics-distribution-interval } }
```

Syntax Description

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

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

Syntax Description

<i>dist-interval</i>	<num-buckets-kept>
<i>num-hours-of-stats</i>	<life-size-value>
<i>distributions-of-statistics-kept</i>	hours-of-statistics-kept
<i>statistics-distribution-interval</i>	
history	History and Distribution Data
buckets-kept	Maximum number of history buckets to collect
<i>num-buckets-kept</i>	Bucket size value (default 15)
<i>num-dist-stats</i>	Distribution bucket size value (default 1)
filter	Add operation to History when...
all	Collect every operation in History
failures	Collect operations that fail in History
none	Shutoff History collection
overThreshold	Collect operations that are over threshold in History
hours-of-statistics-kept	Maximum number of statistics hour groups to capture
lives-kept	Maximum number of history lives to collect
<i>life-size-value</i>	Life size value (default 0)

Command Mode

- /exec/configure/ip-sla/dns /exec/configure/ip-sla/fabricPathEcho

history

```
{ no | default } history { { distributions-of-statistics-kept } | { enhanced [ interval [ <interval-seconds> [ buckets [ <num-buckets> ] ] ] ] } | { hours-of-statistics-kept } | { statistics-distribution-interval } }
```

Syntax Description

Syntax Description

no	
<i>interval</i>	(Optional) buckets
<i>distributions-of-statistics-kept</i>	hours-of-statistics-kept
<i>statistics-distribution-interval</i>	
default	Set a command to its defaults
history	History and Distribution Data
enhanced	Enable enhanced history collection
<i>interval-seconds</i>	(Optional) Interval in seconds
buckets	(Optional) Number of buckets to collect data
<i>num-buckets</i>	(Optional) Number of buckets
hours-of-statistics-kept	Maximum number of statistics hour groups to capture

Command Mode

- /exec/configure/ip-sla/jitter

history

```
history { { distributions-of-statistics-kept <num-dist-stats> } | { enhanced [ interval [ <interval-seconds> [
buckets [ <num-buckets> ] ] ] ] } | { hours-of-statistics-kept <num-hours-of-stats> } | {
statistics-distribution-interval <dist-interval> } }
```

Syntax Description

Syntax Description		
<i>interval</i>	(Optional) buckets	
<i>num-buckets</i>	(Optional) <num-hours-of-stats>	
<i>enhanced</i>	hours-of-statistics-kept	
history	History and Distribution Data	
distributions-of-statistics-kept	Maximum number of statistics distribution buckets to capture	
<i>num-dist-stats</i>	Distribution bucket size value (default 1)	
<i>interval-seconds</i>	(Optional) Interval in seconds	
buckets	(Optional) Number of buckets to collect data	
hours-of-statistics-kept	Maximum number of statistics hour groups to capture	
<i>num-hours-of-stats</i>	Hour groups size value (default 2)	
statistics-distribution-interval	Statistics distribution interval size	
<i>dist-interval</i>	Distribution interval value in msec (default 20)	

Command Mode

- /exec/configure/ip-sla/jitter

history buffer

```
[no] history buffer [ { size [ <onep-historysize> [ purge <historypurge> ] ] } | { purge <historypurge> [ size <onep-historysize> ] } | { session [ <appname-str> ] } ]
```

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
history		One Platform history trails
buffer		In memory buffering of API history trails
session	(Optional)	Session history filter
<i>appname-str</i>	(Optional)	Full or partial session name
size	(Optional)	History buffer size in bytes
<i>onep-historysize</i>	(Optional)	Bytes (default: 32768)
purge	(Optional)	Purge the oldest or newest session history
<i>historypurge</i>	(Optional)	Purge session history

Command Mode

- /exec/configure/onep

history syslog

[no] history syslog

Syntax Description

Syntax Description	no (Optional) Negate a command or set its defaults
	history One Platform history trails
	syslog Enable the API history trails to syslog

Command Mode

- /exec/configure/onep

hold adjacency

hold adjacency <all>

Syntax Description

Syntax Description	hold	Hold
	adjacency	Display adjacency table
	all	Hold all adjcencies

Command Mode

- /exec

hold ip route

```
hold ip { route | rnh } [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] <all>
```

Syntax Description

Syntax Description	hold	Hold
	ip	IPv4
	route	Hold routing information
	rnh	Hold only RNH information
	vrf	(Optional) VRF
	<i>vrf-name</i>	(Optional) VRF name
	<i>vrf-known-name</i>	(Optional) Known VRF name
	vrf-all	(Optional) Display information for all VRFs
	all	Hold all routes

Command Mode

- /exec

hold ipv6 route

```
hold ipv6 route [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] <all>
```

Syntax Description

Syntax Description	hold	Hold
	ipv6	IPv6
	route	Hold routing information
	vrf	(Optional) VRF
	<i>vrf-name</i>	(Optional) VRF name
	<i>vrf-known-name</i>	(Optional) Known VRF name
	vrf-all	(Optional) Display information for all VRFs
	all	Hold all routes

Command Mode

- /exec

hold timeout

hold timeout <timeout_val>

Syntax Description

Syntax Description		
hold		Hold timer
timeout		timer timeout
<i>timeout_val</i>		timeout duration in seconds

Command Mode

- /exec/configure/vpc-domain

holdtime

holdtime { infinite | <secs> } | no holdtime

Syntax Description

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

{ hop <val> } | { no hop }

Syntax Description

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

Syntax Description		
no	(Optional)	Negate a command or set its defaults
host-reachability		Configure host reachability advertisement
protocol		Control protocol to use
bgp	(Optional)	Border Gateway Protocol
openflow	(Optional)	OpenFlow
openflow-ir	(Optional)	OpenFlow-IR

Command Mode

- /exec/configure/if-nve

host-reachability protocol controller

[no] host-reachability protocol controller <controller-id>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
host-reachability	Configure host reachability advertisement
protocol	Control protocol to use
controller	Controller
<i>controller-id</i>	Controller id value

Command Mode

- /exec/configure/if-nve

hostname

{ hostname | switchname } <name> | no { hostname | switchname }

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
hostname	Configure system's host name
switchname	Configure system's host name
<i>name</i>	Enter switchname

Command Mode

- /exec/configure

hostname dynamic

[no] hostname dynamic

Syntax Description

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

Syntax Description	
no	(Optional) Negate a command or set its defaults
hostname	Set dynamic hostname for IS-IS
dynamic	Dynamic hostname

Command Mode

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

hsrp

[no] hsrp <group-id> [ipv4]

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
hsrp	HSRP interface configuration commands
<i>group-id</i>	Group number (0-255 for HSRPv1)
ipv4	(Optional) Configure IP Version 4 group

Command Mode

- /exec/configure/if-eth-any /exec/configure/if-vlan-common /exec/configure/if-port-channel /exec/configure/if-sub /exec/configure/if-ethernet-all

hsrp anycast

```
[no] hsrp anycast <id> { ipv4 | ipv6 | both }
```

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
hsrp	HSRP configuration commands
anycast	Anycast related commands
<i>id</i>	Bundle number
ipv4	Associate IP Version 4 for the bundle
ipv6	Associate IP Version 6 for the bundle
both	Associate IP Version 4 and 6 for the bundle

Command Mode

- /exec/configure

hsrp bfd

[no] hsrp bfd

Syntax Description

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

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

Syntax Description		
no		Negate a command or set its defaults
hsrp		HSRP interface configuration commands
delay		HSRP initialisation delay
minimum		Minimum delay
reload		Delay after reload
<i>min-delay</i>	<0-10000>	Delay in seconds
<i>reload-delay</i>	<0-10000>	Delay in seconds
<i>minimum</i>		(Optional) reload

Command Mode

- /exec/configure/if-eth-any /exec/configure/if-vlan-common /exec/configure/if-port-channel /exec/configure/if-sub /exec/configure/if-ethernet-all

hsrp force state vlan

```
hsrp force state vlan { <vlans> | all }
```

Syntax Description

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 internal

[no] hsrp internal [debug-level <level>]

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
hsrp	HSRP commands
internal	HSRP internal information
debug-level	(Optional) enable debug level
level	(Optional) trace level

Command Mode

- /exec

hsrp internal

[no] hsrp internal [sequence-number] [[command <id>]] [<data1>] [<data2>] [<data3>]

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
hsrp		HSRP commands
internal		enable HSRP internals
sequence-number	(Optional)	enable the sequence number transmit in Hellos
command	(Optional)	Internal command specified through number
<i>id</i>	(Optional)	Internal command value
<i>data1</i>	(Optional)	Internal data 1
<i>data2</i>	(Optional)	Internal data 2
<i>data3</i>	(Optional)	Internal data 3

Command Mode

- /exec

hsrp ipv6

[no] hsrp <group-id> ipv6

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
hsrp	HSRP interface configuration commands
<i>group-id</i>	Group number
ipv6	Configure IP Version 6 group

Command Mode

- /exec/configure/if-eth-any /exec/configure/if-vlan-common /exec/configure/if-port-channel /exec/configure/if-sub /exec/configure/if-ethernet-all

hsrp mac-refresh

hsrp mac-refresh [<time>] | no hsrp mac-refresh

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
hsrp		HSRP interface configuration commands
mac-refresh		Interface mac-refresh time
<i>time</i>		(Optional) Timeout value (0-10000) in sec

Command Mode

- /exec/configure/if-eth-any /exec/configure/if-vlan-common /exec/configure/if-port-channel /exec/configure/if-sub /exec/configure/if-ethernet-all

hsrp timers extended-hold

[no] hsrp timers extended-hold [<extended-hold>]

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
hsrp	HSRP interface configuration commands
timers	Global Timers
extended-hold	Extended Hold
<i>extended-hold</i>	(Optional) Time in seconds

Command Mode

- /exec/configure

hsrp use-bia

[no] hsrp use-bia [scope interface]

Syntax Description

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

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

human

| human

Syntax Description

Syntax Description

| Pipe command output to filter

human output in human format

Command Mode

- /output

human

| human

Syntax Description

Syntax Description

| Pipe command output to filter

human output in human format

Command Mode

- /output

hw-module logging onboard

[no] hw-module logging onboard [{ counter-stats | module <module> [{ counter-stats }] }]

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
hw-module	Enable/Disable OBFL information
logging	Enable/Disable OBFL information
onboard	Enable/Disable OBFL information
counter-stats	(Optional) Enable/Disable OBFL counter statistics
module	(Optional) Enable/Disable OBFL information for Module
<i>module</i>	(Optional) Enter module number

Command Mode

- /exec/configure

hw-module logging onboard

```
[no] hw-module logging onboard [ { environmental-history | error-stats | interrupt-stats | module <module>
[ { environmental-history | error-stats | interrupt-stats | obfl-logs | cpuhog } ] | obfl-logs | cpuhog } ]
```

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
hw-module		Enable/Disable OBFL information
logging		Enable/Disable OBFL information
onboard		Enable/Disable OBFL information
environmental-history	(Optional)	Enable/Disable OBFL environmental history
error-stats	(Optional)	Enable/Disable OBFL error statistics
interrupt-stats	(Optional)	Enable/Disable OBFL interrupt statistics
cpuhog	(Optional)	Enable/Disable OBFL cpu hog events
module	(Optional)	Enable/Disable OBFL information for Module
<i>module</i>	(Optional)	Enter module number
obfl-logs	(Optional)	Enable/Disable OBFL (boot-up/uptime/device-version/obfl-history)

Command Mode

- /exec/configure



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icmp-echo

```
[no] icmp-echo { <hostname> | <ip-address> } { [ source-ip { <source-ip-hostname> | <source-ip-address> } ] [ source-interface <if_index> ] }
```

Syntax Description

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)
if_index	(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

icmpv6 cache disable

[no] icmpv6 cache disable

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
icmpv6	ICMPv6 Commands
cache	Disable cache
disable	Disable cache

Command Mode

- /exec/configure

icmpv6 cfs-queue

```
{ icmpv6 cfs-queue <size> } | { no icmpv6 cfs-queue }
```

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	icmpv6	ICMPv6 Commands
	cfs-queue	cfs-queue
	size	Size for adjacencies to be sent in CFSOE payload

Command Mode

- /exec/configure

icmpv6 library mts-queue

```
{ icmpv6 library mts-queue <size> } | { no icmpv6 library mts-queue }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
icmpv6		ICMPv6 Commands
library		library data queue
mts-queue		mts-queue
<i>size</i>		Size for icmpv6 data sap qlimit

Command Mode

- /exec/configure

icmpv6 mts-queue

{ icmpv6 mts-queue <size> } | { no icmpv6 mts-queue }

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	icmpv6	ICMPv6 Commands
	mts-queue	mts-queue
	<i>size</i>	Size for icmpv6 data sap qlimit

Command Mode

- /exec/configure

import

import

Syntax Description

Syntax Description

import import

Command Mode

- /exec/configure

import interface

import interface <if0>

Syntax Description

Syntax Description

import import

interface Interface configuration

if0 interface type and number in module/slot format

Command Mode

- /exec/configure

import map

[no] import map <rmap-name>

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
import	VRF import	
map	Route-map based VRF import	
<i>rmap-name</i>	Route-map name	

Command Mode

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

import running-config

import running-config [exclude interface ethernet]

Syntax Description

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 vrf default map

import vrf default [<prefix-limit>] map <rmap-name> | no import vrf default [<prefix-limit>] map <rmap-name>

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
import		VRF import
vrf		Virtual Router Context
default		VRF name (default)
<i>prefix-limit</i>	(Optional)	Maximum prefix limit
map		Route-map based VRF import
<i>rmap-name</i>		Route-map name

Command Mode

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

in-label allocate

[no] in-label <static-inlabel> allocate [policy { <prefix> <mask> | <prefix-mask> }]

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
in-label		Configure local label assignment and forwarding for the LSP
allocate		Allocate this label
policy	(Optional)	Allocate policy-based IP prefix
<i>static-inlabel</i>		Label Value
<i>prefix</i>	(Optional)	Destination prefix
<i>mask</i>	(Optional)	Destination prefix mask
<i>prefix-mask</i>	(Optional)	Destination prefix/mask

Command Mode

- /exec/configure/mpls_static/ipv4/lsp

in-order-guarantee

[no] in-order-guarantee

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	in-order-guarantee	Enable IOD

Command Mode

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

include profile

[no] include profile { <all_conf_profile_name> }

Syntax Description

Syntax Description		
	no	(Optional) Negate a command or set its defaults
	include	Include a port-profile
	profile	config-profile
	<i>all_conf_profile_name</i>	Enter the name of the profile

Command Mode

- /exec/configure

include profile any

[no] include profile any

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	include	Include a port-profile
	profile	config-profile
	any	dynamically include profile during apply

Command Mode

- /exec/configure

index next

```
{ { index <index> { next-address [ loose | strict ] <ipaddr> | exclude-address <ipaddr> } } | { no index <index> } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
index		Specify the next entry index to add, edit (or delete)
<i>index</i>		Previous index number
next-address		Specify the next address in the path
loose		(Optional) Target address is loose
strict		(Optional) Target address is strict
exclude-address		Exclude an address from subsequent partial path segments
<i>ipaddr</i>		Enter IP address (A.B.C.D)

Command Mode

- /exec/configure/te/expl-path

ingress-replication

ingress-replication <addr>

Syntax Description

Syntax Description

ingress-replication	Configure ingress replication
---------------------	-------------------------------

<i>addr</i>	Remote Peer IP Address
-------------	------------------------

Command Mode

- /exec/configure/if-nve/vni

ingress-replication protocol bgp

[no] ingress-replication protocol bgp

Syntax Description

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

Syntax Description		
no	(Optional)	Negate a command or set its defaults
ingress-replication		Configure ingress replication
protocol		Control protocol to use
static		Static End-point Configuration

Command Mode

- /exec/configure/if-nve/vni

ingress

{ ingress <ifh> | no ingress }

Syntax Description

Syntax Description

no Negate a command or set its defaults

ingress Ingress interface to determine enhanced forwarding enabled

ifh Name of the interface for ngoam on which fabric forwarding is configured

Command Mode

- /exec/configure/configngoamprofile

ingress interface

[no] ingress interface <interface-ref>

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
ingress	ITD	ingress interface
interface	ITD	ingress interface
<i>interface-ref</i>		

Command Mode

- /exec/configure/itd /exec/configure/itd-inout

ingress interface

[no] ingress interface <interface-ref> [next-hop <ip-addr>]

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
ingress	ITD ingress interface
interface	ITD ingress interface
<i>interface-ref</i>	
next-hop	(Optional) next hop ip address
<i>ip-addr</i>	(Optional) Next hop IPv4 address connected to ingress intrerface

Command Mode

- /exec/configure/itd /exec/configure/itd-inout

inherit peer-policy

[no] inherit peer-policy <peer-policy-template-name> <policy-preference>

Syntax Description

Syntax Description

no	(Optional) Negate a command or set its defaults
inherit	Inherit a template
peer-policy	Inherit a peer-policy template
<i>peer-policy-template-name</i>	Template name
<i>policy-preference</i>	Sequence number

Command Mode

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

inherit peer-policy

[no] inherit peer-policy <peer-policy-template-name> <policy-preference>

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
inherit		Inherit a template
peer-policy		Inherit a peer-policy template
<i>peer-policy-template-name</i>		Template name
<i>policy-preference</i>		Sequence number

Command Mode

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

inherit peer-session

[no] inherit peer-session <peer-session-template-name>

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
inherit		Inherit a template
peer-session		Inherit a peer-session template
<i>peer-session-template-name</i>		Template name

Command Mode

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

inherit peer

[no] inherit peer <peer-template-name>

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
inherit	Inherit a template	
peer	Inherit a peer template	
<i>peer-template-name</i>	Peer template name	

Command Mode

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

inherit port-profile

[no] inherit port-profile { <s0> | <s1> }

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
inherit		Inherit a port-profile
port-profile		Inherit a port-profile
<i>s0</i>		Enter the name of the profile
<i>s1</i>		Enter the name of the profile

Command Mode

- /exec/configure/if-any /exec/configure/if-port-channel exec/configure/if-port-channel-range /exec/configure/if-ethernet-m /exec/configure/if-ethernet-switch-m /exec/configure/if-te /exec/configure/if-pseudowire

inject-map exist-map

[no] inject-map <inject-map-name> exist-map <exist-map-name> [copy-attributes]

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
inject-map	Routemap which specifies prefixes to inject	
<i>inject-map-name</i>	Route-map name	
exist-map	Routemap which specifies exist condition	
<i>exist-map-name</i>	Route-map name	
copy-attributes	(Optional) Copy attributes from aggregate	

Command Mode

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

install activate

```
install activate <patch> + [ forced ]
```

Syntax Description

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> ] [ [ activate [ upgrade | downgrade ] ] [ forced ] ]
```

Syntax Description

Syntax Description		
install		Install package
add		Add package
<i>package-name</i>		Package name
<i>uri1</i>		Enter package uri
vrf	(Optional)	Display per-VRF information
<i>vrf-known-name</i>	(Optional)	Known VRF name
activate	(Optional)	Activate package
forced	(Optional)	non-interactive
upgrade	(Optional)	Upgrade package
downgrade	(Optional)	Downgrade package

Command Mode

- /exec

install all

```
install { all [ nxos <uri> | kickstart <uri1> | system <uri3> | serial ] + [ force ] [ non-disruptive | no-reload | noswitchover ] [ bios | no-save ] [ bios-force ] [ non-interruptive ] [ compact ] | force-all [ nxos <uri> | serial ] + [ non-disruptive ] [ force ] }
```

Syntax Description

Syntax Description

install	upgrade software
all	Upgrade the system
kickstart	(Optional) boot-variable name
<i>uri1</i>	(Optional) Enter image uri
system	(Optional) boot-variable name
<i>uri3</i>	(Optional) Enter image uri
no-reload	(Optional) Exit right before reload during install.
noswitchover	(Optional) Exit right before reload during install.
non-interruptive	(Optional) Non-Interruptive install.
no-save	(Optional) Config not saved. Manually save config before starting install all
bios	(Optional) BIOS Only
bios-force	(Optional) Forcefully upgrade bios.
force	(Optional) Forcefully allow ISSU with target image .
non-disruptive	(Optional) Non-Disruptive install.
compact	(Optional) Compact image to make it nexus 3k only
nxos	(Optional) boot-variable name
<i>uri</i>	(Optional) Enter image uri
serial	(Optional) Upgrade linecards in serial
force-all	Force upgrade the system

Command Mode

- /exec

install commit

install commit [<patch>]

Syntax Description

Syntax Description	
<code>install</code>	Install package
<code>commit</code>	Commit software patch
<code>patch</code>	(Optional) Package Name

Command Mode

- /exec

install deactivate

install deactivate <patch> + [forced]

Syntax Description

Syntax Description

install Install package

deactivate Deactivate package

patch Package Name

forced (Optional)
 non-interactive

Command Mode

- /exec

install epld

```
install epld <uri1> { { module { <module> } [ force ] } }
```

Syntax Description

Syntax Description	
install	upgrade software
epld	Install EPLD from EPLD image
<i>uri1</i>	Local URI containing EPLD Image
module	Upgrade the modules
<i>module</i>	Enter the module number to be upgraded
force	(Optional) Force Install EPLD from EPLD image

Command Mode

- /exec

install epld

```
install epld <uri1> { { module { all } [ force ] } }
```

Syntax Description

Syntax Description

install upgrade software

epld Install EPLD from EPLD image

uri1 Local URI containing EPLD Image

module Upgrade the modules

all Install all the modules

force (Optional) Force Install EPLD from EPLD image

Command Mode

- /exec

install epld

```
install epld <uri> { { module { <module> } { primary | golden } [ force ] } }
```

Syntax Description

Syntax Description	
install	upgrade software
epld	Install EPLD from EPLD image
<i>uri</i>	Local URI containing EPLD Image
module	Upgrade the modules
<i>module</i>	Enter the module number to be upgraded
primary	Upgrade primary fpga image
golden	Upgrade golden fpga image
force	(Optional) Force Install EPLD from EPLD image

Command Mode

- /exec

install epld

```
install epld <uri1> { { module { all } { primary | golden } [ force ] } }
```

Syntax Description

Syntax Description	Description
install	upgrade software
epld	Install EPLD from EPLD image
<i>uri1</i>	Local URI containing EPLD Image
module	Upgrade the modules
all	Install all the modules
primary	Upgrade primary fpga image
golden	Upgrade golden fpga image
force	(Optional) Force Install EPLD from EPLD image

Command Mode

- /exec

install epld psu

install epld <uri> psu

Syntax Description

Syntax Description	install upgrade software
	epld Install EPLD from EPLD image
	<i>uri</i> Local URI containing EPLD Image
	psu Upgrade PSU firmware

Command Mode

- /exec

install feature-set fcoe-npv

[no] install feature-set fcoe-npv

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	install	install a feature-set
	feature-set	install feature-set
	fcoe-npv	FCOE-NPV

Command Mode

- /exec/configure

install feature-set fex

[no] install feature-set fex

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
install		install a feature-set
feature-set		install feature-set
fex		FEX

Command Mode

- /exec/configure

install feature-set mpls

[no] install feature-set mpls

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
install	install a feature-set
feature-set	install feature-set
mpls	MPLS

Command Mode

- /exec/configure

install license

install license <uri0> [<s0>]

Syntax Description

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 module

```
install module <module> { bios [ [ system <uri0> ] [ forced2 ] ] | bios [ primary | golden ] [ forced ] | image
[ { forced1 | system1 <uri1> } ] }
```

Syntax Description

Syntax Description

`install` upgrade software

`module` Upgrade for module

module Enter module index

`bios` Upgrade module bios

`system` (Optional) System Image

uri0 (Optional) Local URI containing the system Image

`forced2` (Optional) Force install bios

`primary` (Optional) Upgrade the Primary bios

`golden` (Optional) Upgrade the Golden bios

`forced` (Optional) Force install bios

`image` Upgrade module image

`forced1` (Optional) Bypass SRG check

`system1` (Optional) System Image

uri1 (Optional) Local URI containing the system Image

Command Mode

- /exec

install remove

install remove { <patch> | inactive } [forced]

Syntax Description

Syntax Description	Description
install	Install package
remove	Remove package
<i>patch</i>	Package Name
inactive	All inactive except non-committed packages
forced	(Optional) Remove package

Command Mode

- /exec

instance-id

[no] instance-id <iid>

Syntax Description

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>

Syntax Description

Syntax Description

no (Optional) Negate a command or set its defaults

instance Configure a parameter list instance

plistinst Enter the name of the parameter list instance

Command Mode

- /exec/configure/param-list

instance

[no] instance <instance-id> [vlan <vlan-list>]

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
instance		Map vlans to an MST instance
<i>instance-id</i>		MST instance id
vlan	(Optional)	Range of vlans to add to the instance mapping
<i>vlan-list</i>	(Optional)	vlan range ex: 1-65, 72, 200 - 300

Command Mode

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

instance vlan

instance <instance-id> vlan <vlan-list>

Syntax Description

Syntax Description	instance	Map vlans to an MST instance
	<i>instance-id</i>	MST instance id
	vlan	Range of vlans to add to the instance mapping
	<i>vlan-list</i>	vlan range ex: 1-65, 72, 200 - 300

Command Mode

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

interface-vlan reset credits

```
interface-vlan reset credits [ <count> ]
```

Syntax Description

Syntax Description	
interface-vlan	Vlan Interface
reset	Reset SVI Credits
credits	SVI Credits
<i>count</i>	(Optional) Set SVI Credit Count

Command Mode

- /exec/configure

interface-vlan reset fsm

interface-vlan <vlan-id> reset fsm

Syntax Description

Syntax Description	
interface-vlan	Vlan Interface
<i>vlan-id</i>	VLAN Id
reset	Reset SVI Credits
fsm	SVI FSM

Command Mode

- /exec/configure

interface

[no] interface <interface>

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
---------------------------	----	---

	interface	Configure interfaces
--	-----------	----------------------

	<i>interface</i>	Interface Name
--	------------------	----------------

Command Mode

- /exec/configure

interface

[no] interface <interface>

Syntax Description

Syntax Description	no (Optional) Negate a command or set its defaults
	interface Configure interfaces
	<i>interface</i> Interface Name

Command Mode

- /exec/configure

interface

[no] interface <interface>

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
---------------------------	----	---

	interface	Configure interfaces
--	-----------	----------------------

	<i>interface</i>	Interface Name
--	------------------	----------------

Command Mode

- /exec/configure

interface

[no] interface <interface>

Syntax Description

Syntax Description	no (Optional) Negate a command or set its defaults
	interface Configure interfaces
	<i>interface</i> Interface Name

Command Mode

- /exec/configure

interface

[no] interface <interface>

Syntax Description

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

Syntax Description	no (Optional) Negate a command or set its defaults
	interface Configure interfaces
	<i>interface</i> Interface Name

Command Mode

- /exec/configure

interface

[no] interface <interface>

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
---------------------------	----	---

	interface	Configure interfaces
--	-----------	----------------------

	<i>interface</i>	Interface Name
--	------------------	----------------

Command Mode

- /exec/configure

interface

[no] interface <interface>

Syntax Description

Syntax Description	no (Optional) Negate a command or set its defaults
	interface Configure interfaces
	<i>interface</i> Interface Name

Command Mode

- /exec/configure

interface

interface <interface>

Syntax Description

Syntax Description

interface Configure
interfaces

interface Interface Name

Command Mode

- /exec/configure

interface

[no] interface <interface>

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
interface	Configure interfaces
<i>interface</i>	Interface Name

Command Mode

- /exec/configure

interface

[no] interface <interface>

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
---------------------------	----	---

	interface	Configure interfaces
--	-----------	----------------------

	<i>interface</i>	Interface Name
--	------------------	----------------

Command Mode

- /exec/configure

interface

{ interface <interface-range> } | { no interface }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
interface		Configure ngoam egress interface
<i>interface-range</i>		Configure ngoam egress interface

Command Mode

- /exec/configure/configngoamprofile

interface breakout module

interface breakout module <module>

Syntax Description

Syntax Description

interface Configure interfaces

breakout Configuring the breakout for a module

module High Bandwidth Module

module High Bandwidth Module number

Command Mode

- /exec/configure

interface breakout module

[no] interface breakout module <module>

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
interface	Configure interfaces
breakout	Configuring the breakout for a module
module	High Bandwidth Module
<i>module</i>	High Bandwidth Module number

Command Mode

- /exec/configure

interface breakout module port map

```
interface breakout module <module> port <port_num> map <breakout_map>
```

Syntax Description

Syntax Description

interface	Configure interfaces
breakout	Configuring the breakout for an interface
module	High Bandwidth Module
<i>module</i>	High Bandwidth Module number
port	High Bandwidth Port(HBP)
<i>port_num</i>	Parent(HBP / Front-panel) port to be broken out
map	Breakout Map
<i>breakout_map</i>	Breakout Map to be applied to the parent port

Command Mode

- /exec/configure

interface breakout module port map

[no] interface breakout module <module> port <port_num> map <breakout_map>

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
interface		Configure interfaces
breakout		Configuring the breakout for an interface
module		High Bandwidth Module
<i>module</i>		High Bandwidth Module number
port		High Bandwidth Port(HBP)
<i>port_num</i>		Parent(HBP / Front-panel) port to be broken out
map		Breakout Map
<i>breakout_map</i>		Breakout Map to be applied to the parent port

Command Mode

- /exec/configure

interface down delay

[no] interface down delay |

Syntax Description

Syntax Description	
<i>down</i>	delay
no	Negate a command or set its defaults
interface	Add tunnel interface config
delay	Tunnel interface down delay config

Command Mode

- /exec/configure/if-te

interop-enable

[no] interop-enable

Syntax Description

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

ip

[no] ip [<ipaddress> [secondary]]

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	ip	Set Virtual IP address
	<i>ipaddress</i>	(Optional) Virtual IP address
	secondary	(Optional) Make this a secondary IP address

Command Mode

- /exec/configure/if-eth-any/global

ip

ip [<ipaddress>] | no ip [<ipaddress>]

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
ip	Enable HSRP IPv4 and set the virtual IP address
<i>ipaddress</i>	(Optional) Virtual IP address

Command Mode

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

ip

ip { <ipv6address> | autoconfig } | no ip [{ <ipv6address> | autoconfig }]

Syntax Description

Syntax Description

no	Negate a command or set its defaults
ip	Enable HSRP IPv6 and set the virtual IP address
autoconfig	Obtain address using autoconfiguration

Command Mode

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

ip

[no] ip <ipaddr>

Syntax Description

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 access-class

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

Syntax Description

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

Command Mode

- /exec/configure/line

ip access-group

[no] ip access-group <name> <inout>

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	ip	Configure IP features
	access-group	Specify access control for packets
	<i>name</i>	List name
	<i>inout</i>	Traffic direction

Command Mode

- /exec/configure/if-set-acl-l3

ip access-list

[no] ip access-list <name> [client <clienttype> <clientID>]

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
ip		Configure IP features
access-list		Configure access list
<i>name</i>		List name
client	(Optional)	set client type
<i>clienttype</i>	(Optional)	CLI/ONEP
<i>clientID</i>	(Optional)	client appID

Command Mode

- /exec/configure

ip access-list match-local-traffic

[no] ip access-list match-local-traffic | ip access-list match-local-traffic

Syntax Description

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

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
address		Configure IP address on interface
<i>ip-addr</i>	(Optional)	IP address in format i.i.i.i
<i>ip-mask</i>	(Optional)	IP network mask in format m.m.m.m
<i>ip-prefix</i>	(Optional)	IP prefix and network mask length in format x.x.x.x/m
route-preference	(Optional)	URIB route preference for local/direct routes
<i>pref</i>	(Optional)	Local/direct route preference
tag	(Optional)	URIB route tag value for local/direct routes
<i>tag</i>	(Optional)	Local/direct tag value

Command Mode

- /exec/configure/if-igp /exec/configure/if-mgmt-config /exec/configure/if-mpls-tunnel /exec/configure/if-gre-tunnel /exec/configure/if-vsran /exec/configure/if-cpp

ip address dhcp

[no] ip address dhcp

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
ip	Configure IP features
address	Configure IP address on interface
dhcp	Configure IP address from a dhcp server

Command Mode

- /exec/configure/if-vlan /exec/configure/if-ethernet /exec/configure/if-mgmt-config /exec/configure/if-ethernet-all /exec/configure/if-sub

ip address secondary

[no] ip address { <ip-addr> <ip-mask> | <ip-prefix> } secondary [route-preference <pref>] [tag <tag>] | ip address { <ip-addr> <ip-mask> | <ip-prefix> } secondary [route-preference <pref>] [tag <tag>]

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
address		Configure IP address on interface
<i>ip-addr</i>		IP address in format i.i.i.i
<i>ip-mask</i>		IP network mask in format m.m.m.m
<i>ip-prefix</i>		IP prefix and network mask length in format x.x.x.x/m
secondary		Configure additional IP addresses on interface
route-preference	(Optional)	URIB route preference for local/direct routes
<i>pref</i>	(Optional)	Local/direct route preference
tag	(Optional)	URIB route tag value for local/direct routes
<i>tag</i>	(Optional)	Local/direct tag value

Command Mode

- /exec/configure/if-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 cache disable

[no] ip adjacency cache disable

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	Configure IP features	
adjacency	Configure Adjmgr	
cache	Disable cache	
disable	Disable cache	

Command Mode

- /exec/configure

ip adjacency forcedownload

```
ip adjacency [ vrf { <vrf-name> | <vrf-known-name> } ] { <interface> { * | <ip-addr> } | * } forcedownload
```

Syntax Description

Syntax Description		
ip		Configure IP features
adjacency		Configure Adjmgr
vrf		(Optional) Display per-VRF information
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name
<i>interface</i>		Display specific interface adjacencies only
<i>ip-addr</i>		IPV4 source address
*		for all adjacencies in this context
forcedownload		Create consistency in UFDM

Command Mode

- /exec/configure

ip adjacency l2fm-reg

[no] ip adjacency l2fm-reg { [vrf <vrf-known-name>] | <interface> }

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
ip		Configure IP features
adjacency		Configure Adjmgr
l2fm-reg		Register with l2fm
vrf	(Optional)	vrf name
<i>vrf-known-name</i>	(Optional)	Known VRF name
<i>interface</i>		Interface name

Command Mode

- /exec/configure

ip adjacency notify interval

{ ip adjacency notify interval <time> } | { no ip adjacency notify interval }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
adjacency		Configure Adjmgr
notify		Notify URIB/FIB
interval		Time interval
<i>time</i>		value in milli seconds

Command Mode

- /exec/configure

ip adjacency peer-gmac

[no] ip adjacency [vrf { <vrf-name> | <vrf-known-name> }] { <interface> { * | <ip-addr> } | * } peer-gmac

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
ip		Configure IP features
adjacency		Configure Adjmgr
vrf	(Optional)	Display per-VRF information
<i>vrf-name</i>	(Optional)	VRF name
<i>vrf-known-name</i>	(Optional)	Known VRF name
<i>interface</i>		Display specific interface adjacencies only
<i>ip-addr</i>		IPv4 source address
*		for all adjacencies in this context
peer-gmac		Set/clear the peer-gmac bit

Command Mode

- /exec/configure

ip adjacency remote-adj

[no] ip adjacency [vrf { <vrf-name> | <vrf-known-name> }] { <interface> { * | <ip-addr> } | * } remote-adj

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
ip		Configure IP features
adjacency		Configure Adjmgr
vrf	(Optional)	Display per-VRF information
<i>vrf-name</i>	(Optional)	VRF name
<i>vrf-known-name</i>	(Optional)	Known VRF name
<i>interface</i>		Display specific interface adjacencies only
<i>ip-addr</i>		IPv4 source address
*		for all adjacencies in this context
remote-adj		Set/clear the remote-adj bit

Command Mode

- /exec/configure

ip adjacency route distance

{ ip adjacency route distance <pref> } | { no ip adjacency route distance }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
adjacency		Configure Adjmgr
route	route	
distance	admin-distance	
<i>pref</i>	preference	

Command Mode

- /exec/configure

ip adjacency statistics collect

{ ip adjacency statistics collect } | { no ip adjacency statistics collect }

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	ip	Configure IP features
	adjacency	Configure Adjmgr
	statistics	Statistics
	collect	Collection

Command Mode

- /exec/configure

ip adjacency statistics interval

{ ip adjacency statistics interval <time> } | { no ip adjacency statistics interval }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
adjacency		Configure Adjmgr
statistics		Statistics
interval		Interval
<i>time</i>		Timer timeout value

Command Mode

- /exec/configure

ip adjmgr internal event-history size

```
[no] ip adjmgr internal event-history { control | errors | ipc | stats | ha | cli | sdb | snmp | nb | dme-event } size
{ <size_in_text> }
```

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	Configure IP features	
adjmgr	AM information	
internal	Commands for internal use	
event-history	various event logs of Adjmgr	
control	Control logs of Adjmgr	
errors	error logs of Adjmgr	
ipc	ipc debug message logs of Adjmgr	
stats	stats debug message logs of Adjmgr	
ha	ha debug message logs of Adjmgr	
cli	cli related events of Adjmgr	
sdb	sdb debug message logs of Adjmgr	
snmp	snmp debug message logs of Adjmgr	
nb	netbroker debug message logs of Adjmgr	
dme-event	dme event logs of Adjmgr	
size	Configure the size of the event-hist buffer	
<i>size_in_text</i>	Buffer size	

Command Mode

- /exec/configure

ip adjmgr internal event-history size

[no] ip adjmgr internal event-history { control | errors | ipc | stats | ha | cli | sdb | snmp | nb | dme-event } size { <size_in_Kbytes> }

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	Configure IP features	
adjmgr	AM information	
internal	Commands for internal use	
event-history	various event logs of Adjmgr	
control	Control logs of Adjmgr	
errors	error logs of Adjmgr	
ipc	ipc debug message logs of Adjmgr	
stats	stats debug message logs of Adjmgr	
ha	ha debug message logs of Adjmgr	
cli	cli related events of Adjmgr	
sdb	sdb debug message logs of Adjmgr	
snmp	snmp debug message logs of Adjmgr	
nb	netbroker debug message logs of Adjmgr	
dme-event	dme event logs of Adjmgr	
size	Configure the size of the event-hist buffer	
<i>size_in_Kbytes</i>	Size of the file in kbytes	

Command Mode

- /exec/configure

ip allow address-overlap

[no] ip allow address-overlap

Syntax Description

Syntax Description		
	no	(Optional) Negate a command or set its defaults
	ip	Configure IP features
	allow	Allow interface IP address overlap
	address-overlap	Allow interface IP address overlap

Command Mode

- /exec/configure

ip allow port

{ ip allow port { <allow_ports> | none } | no ip allow port [<allow_ports> | none] }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		IP protocol
port		Well known UDP/TCP ports
allow		Restrict the set of allowed ports
<i>allow_ports</i>		Comma separated list of ports or ranges
none		Disallow binding to any ports

Command Mode

- /exec/configure/virt-serv

ip amt anycast-gateway-address

```
{ { ip amt anycast-gateway-address <address> } | { no ip amt anycast-gateway-address [ <address> ] } } | {
ipv6 amt anycast-gateway-address <address6> } | { no ipv6 amt anycast-gateway-address [ <address6> ] } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
ipv6		Configure IPv6 features
amt		AMT global configuration commands
anycast-gateway-address		Configure anycast address for AMT gateway
<i>address</i>		IP anycast address of AMT gateway

Command Mode

- /exec/configure /exec/configure/vrf

ip amt anycast-relay-prefix

{ { ip amt anycast-relay-prefix <prefix> } | { no ip amt anycast-relay-prefix [<prefix>] } } | { ipv6 amt anycast-relay-prefix <prefix6> } | { no ipv6 amt anycast-relay-prefix [<prefix6>] } }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
ipv6		Configure IPv6 features
amt		AMT global configuration commands
anycast-relay-prefix		Configure anycast prefix for AMT relay
<i>prefix</i>		IP anycast prefix for AMT relay

Command Mode

- /exec/configure /exec/configure/vrf

ip amt gateway

[no] ip amt gateway

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
ip	Configure IP features
amt	AMT global configuration commands
gateway	Configures IPv4 AMT gateway functionality

Command Mode

- /exec/configure /exec/configure/vrf

ip amt gateway send-discovery

[no] ip amt gateway send-discovery

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	Configure IP features	
amt	AMT global configuration commands	
gateway	Configures IP AMT gateway functionality	
send-discovery	Trigger a Discovery message to the Anycast address	

Command Mode

- /exec/configure /exec/configure/vrf

ip amt join-policy

```
{ [ no ] { ip | ipv6 } amt join-policy <route-map> [ gateway <groute-map> ] }
```

Syntax Description

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
amt	AMT global configuration commands
join-policy	Configures what (S,G) are allowed to be joined
<i>route-map</i>	Route-map describing (S,G) entries allowed
gateway	(Optional) Configure join-policy per gateway
<i>groute-map</i>	(Optional) Route-map describing gateway or sets of gateways

Command Mode

- /exec/configure /exec/configure/vrf

ip amt qqic

[no] { ip | ipv6 } amt qqic <qqic-value>

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	Configure IP features	
ipv6	Configure IPv6 features	
amt	AMT global configuration commands	
qqic	Configure Querier's Query Interval Code	
<i>qqic-value</i>	QQIC value	

Command Mode

- /exec/configure /exec/configure/vrf

ip amt relay-advertisement-address

```
{ { ip amt relay-advertisement-address <address> } | { no ip amt relay-advertisement-address [ <address> ] } } | { { ipv6 amt relay-advertisement-address <address6> } | { no ipv6 amt relay-advertisement-address [ <address6> ] } }
```

Syntax Description

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
amt	AMT global configuration commands
relay-advertisement-address	Address to use by AMT relay
<i>address</i>	IP unicast address for AMT relay to use

Command Mode

- /exec/configure /exec/configure/vrf

ip amt relay

[no] ip amt relay

Syntax Description

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

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
amt	AMT global configuration commands
state-limit	Configure the maximum number of (S,G) entries allowed
<i>limit</i>	Number of entries total or per AMT gateway
gateway	(Optional) Configure state limit per gateway
<i>route-map</i>	(Optional) Route-map describing gateway or sets of gateways

Command Mode

- /exec/configure /exec/configure/vrf

ip amt tunnel-limit

{ { { ip | ipv6 } amt tunnel-limit <limit> } | { no { ip | ipv6 } amt tunnel-limit [<limit>] } }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
ipv6		Configure IPv6 features
amt		AMT global configuration commands
tunnel-limit		Configure the maximum tunnels allowed
<i>limit</i>		Number of tunnels

Command Mode

- /exec/configure /exec/configure/vrf

ip arp

```
{ ip arp <ip-address> <mac-address> | no ip arp <ip-address> [ <mac-address> ] }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
arp		Configure ARP parameters
<i>ip-address</i>		IP address
<i>mac-address</i>		MAC address

Command Mode

- /exec/configure/if-igp /exec/configure/if-mgmt-config /exec/configure/if-vlan-common

ip arp allow-static-arp-outside-subnet

[no] ip arp allow-static-arp-outside-subnet

Syntax Description

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 am mts-batch

```
{ ip arp am mts-batch <batch-timer> }
```

Syntax Description

Syntax Description		
	ip	Configure IP features
	arp	Configure ARP parameters
	am	Adjacency Manager
	mts-batch	Configure ARP-AM mts batch count
	<i>batch-timer</i>	Interval in milliseconds

Command Mode

- /exec/configure

ip arp broadcast mac-mismatch

{ ip arp broadcast mac-mismatch } | { no ip arp broadcast mac-mismatch }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
arp		Configure ARP parameters
broadcast		Enable/disable arp broadcast
mac-mismatch		when there is a smac mismatch

Command Mode

- /exec/configure

ip arp cache disable

[no] ip arp cache disable

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
ip	Configure IP features
arp	Configure ARP parameters
cache	Disable cache
disable	Disable cache

Command Mode

- /exec/configure

ip arp cache limit

{ { ip arp cache limit <max> } | { no ip arp cache limit } } [syslog <rate>]

Syntax Description

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 cfs-queue

{ ip arp cfs-queue <size> } | { no ip arp cfs-queue }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
arp		ARP
cfs-queue	cfs-queue	
size		Size for adjacencies to be sent in CFSOE payload

Command Mode

- /exec/configure

ip arp cos

{ ip arp cos <cosval> } | { no ip arp cos }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
arp		Configure ARP parameters
cos		COS for ARP packet
<i>cosval</i>		COS value

Command Mode

- /exec/configure

ip arp event-history size

```
[no] ip arp event-history { packet | event | sync-event | ip-sync-event | control | ha | errors | lcache | lcache-errors | client-event | client-errors | snmp | cli | suppression-event | suppression-errors | controller-errors | dme-event } size { <size_in_text> }
```

Syntax Description

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	IP events
arp	Configure ARP parameters
event-history	log debug events into event history buffer
packet	inst packet logs
event	Internal event logs
sync-event	CFS and MCECM related event logs
ip-sync-event	L3 over vpc events
control	ARP control event logs
ha	HA and GR logs
errors	inst error logs
lcache	lcache logs
lcache-errors	lcache_error logs
client-event	Client_event logs
client-errors	Client_error logs
cli	cli logs
snmp	SNMP logs
suppression-event	ARP suppression event logs
suppression-errors	ARP suppression error logs
controller-errors	Controller MAC-IP route error logs
dme-event	ARP DME event logs
size	Configure the size of the event-hist buffer
<i>size_in_text</i>	Buffer size

Command Mode

- /exec/configure

ip arp event-history size

```
[no] ip arp event-history { packet | event | sync-event | ip-sync-event | control | ha | errors | lcache | lcache-errors | client-event | client-errors | snmp | cli | suppression-event | suppression-errors | dme-event } size { <size_in_Kbytes> }
```

Syntax Description

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	IP events
arp	Configure ARP parameters
event-history	log debug events into event history buffer
packet	inst packet logs
event	Internal event logs
sync-event	CFS and MCECM related event logs
ip-sync-event	L3 over vpc events
control	ARP control event logs
ha	HA and GR logs
errors	inst error logs
lcache	lcache logs
lcache-errors	lcache_error logs
client-event	Client_event logs
client-errors	Client_error logs
cli	cli logs
snmp	SNMP logs
suppression-event	ARP suppression event logs
suppression-errors	ARP suppression error logs
dme-event	ARP DME event logs
size	Configure the size of the event-hist buffer
<i>size_in_Kbytes</i>	Size of the file in kbytes

Command Mode

- /exec/configure

ip arp garp-storm

{ ip arp garp-storm } | { no ip arp garp-storm }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
arp		Configure ARP parameters
garp-storm		Configure timer values for garp-storm

Command Mode

- /exec/configure

ip arp garp-storm timer count

```
{ ip arp garp-storm timer <garp-timer> count <garp-count> } | { no ip arp garp-storm timer <garp-timer>
count <garp-count> }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
arp		Configure ARP parameters
garp-storm		Configure timer values for garp-storm
timer		Set the garp-storm timer value in seconds
<i>garp-timer</i>		Timer value in seconds
count		Set the garp count value
<i>garp-count</i>		Timer value in seconds

Command Mode

- /exec/configure

ip arp gratuitous hsrp duplicate

{ ip arp gratuitous hsrp duplicate | no ip arp gratuitous hsrp duplicate }

Syntax Description

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

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

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-igmp /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

Syntax Description		
no	(Optional)	Negate a command or set its defaults
ip		Configure IP features
arp		Configure ARP parameters
inspection		Arp Inspection configuration
filter		Filter
<i>arp-acl-name</i>		Access list name
vlan		Vlan range
<i>vlan-range</i>		VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19

Command Mode

- /exec/configure

ip arp inspection log-buffer entries

[no] ip arp inspection log-buffer { entries <number1> }

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
ip	Configure IP features
arp	Configure ARP parameters
inspection	Arp Inspection configuration
log-buffer	Log Buffer Configuration
entries	Number of entries for log buffer
<i>number1</i>	Number of entries for log buffer

Command Mode

- /exec/configure

ip arp inspection trust

[no] ip arp inspection trust

Syntax Description

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

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

Syntax Description		
<i>logging</i>	(Optional) dhcp-bindings	
<i>no</i>	(Optional) Negate a command or set its defaults	
<i>ip</i>	Configure IP features	
<i>arp</i>	Configure ARP parameters	
<i>inspection</i>	Arp Inspection configuration	
<i>vlan</i>	Enable/Disable ARP Inspection on vlans	
<i>vlan-id</i>	VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19	
<i>dhcp-bindings</i>	(Optional) Logging of packet that match DHCP bindings	
<i>permit</i>	(Optional) Log DHCP Binding Permitted packets	
<i>all</i>	(Optional) Log all packets that match DHCP bindings	
<i>inone</i>	(Optional) Do not log packets	

Command Mode

- /exec/configure

ip arp mts-queue

{ ip arp mts-queue <size> } | { no ip arp mts-queue }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
arp		ARP
mts-queue	mts-queue	
size		Size for arp data sap qlimit

Command Mode

- /exec/configure

ip arp off-list timeout

{ ip arp off-list timeout <time> } | { no ip arp off-list timeout }

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	ip	Configure IP features
	arp	Configure ARP parameters
	off-list	off-list
	timeout	Expire time
	<i>time</i>	Expire time value in seconds

Command Mode

- /exec/configure

ip arp rarp fabric-forwarding

[no] ip arp rarp fabric-forwarding

Syntax Description

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

Syntax Description		
no	(Optional)	Negate a command or set its defaults
ip		Configure IP features
arp		Configure ARP parameters
rarp		Enable/Disable forwarding of RARP messages on fabric
fabric-forwarding		Forward RARP requests to the fabric
rate-limit		Forwarding rate of the RARP frames
<i>rate</i>		RARP frames-per-second

Command Mode

- /exec/configure

ip arp request

ip arp request <ip-address>

Syntax Description

Syntax Description		
	ip	Configure IP features
	arp	Configure ARP parameters
	request	Trigger ARP request
	<i>ip-address</i>	IP address

Command Mode

- /exec/configure/if-igp

ip arp suppression-cache

```
ip arp suppression-cache { [ clear { local | remote } vlan <vlan-id> [ <ip-address> ] ] | [ download remote
vlan <vlan-id> [ <ip-address> ] ] }
```

Syntax Description

Syntax Description		
clear	(Optional)	Clear ARP suppression cache entries
ip		Clear IP commands
download	(Optional)	download local entries from ARP cache, remote from l2rib
arp		Clear ARP table and statistics
suppression-cache		ARP-suppression cache
local	(Optional)	Local entries
remote	(Optional)	Remote entries
vlan	(Optional)	Vlan id
<i>vlan-id</i>	(Optional)	Vlan
<i>ip-address</i>	(Optional)	IP address

Command Mode

- /exec

ip arp suppression testnum

```
ip arp suppression testnum <testnum> [ { <ip-address> <mac-address> <vlan_id> <interface> <phy-interface>
} <count> ]
```

Syntax Description

Syntax Description		
ip		Configure IP features
arp		Configure ARP parameters
suppression		ARP-suppression based event
testnum		test case number
<i>testnum</i>		id of test (1-100)
<i>ip-address</i>		(Optional) IP address
<i>mac-address</i>		(Optional) MAC address
<i>vlan_id</i>		(Optional) Vlan
<i>interface</i>		(Optional) ARP interface
<i>phy-interface</i>		(Optional) ARP interface
<i>count</i>		(Optional) no of adjacencies needed

Command Mode

- /exec/configure

ip arp suppression timeout

{ ip arp suppression timeout <time-out> } | { no ip arp suppression timeout }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
arp		Configure ARP parameters
suppression		ARP-suppression based event
timeout		ARP timeout
<i>time-out</i>		Time-out value in seconds. Time-out = 0 indicates disabled

Command Mode

- /exec/configure

ip arp synchronize

[no] ip arp synchronize

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
ip	Configure IP features
arp	ARP
synchronize	CFS synchronize

Command Mode

- /exec/configure/vpc-domain

ip arp synchronize pull

ip arp synchronize pull

Syntax Description

Syntax Description		
	ip	Configure IP features
	arp	ARP
	synchronize	CFS synchronize
	pull	Initiate CFS pull request

Command Mode

- /exec

ip arp synchronize push

ip arp synchronize push

Syntax Description

Syntax Description		
ip		Configure IP features
arp		ARP
synchronize		CFS synchronize
push		Initiate CFS push message

Command Mode

- /exec

ip arp test

```
{ ip arp test <ip-address> <mac-address> <mode> | no ip arp test <ip-address> [ <mac-address> ] <mode> }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
arp		Configure ARP parameters
test		test command
<i>ip-address</i>		IP address
<i>mac-address</i>		MAC address
<i>mode</i>		Mode: 1 - Data plane, 2 - Control plane

Command Mode

- /exec/configure/if-vlan-common

ip arp timeout

{ ip arp timeout <time-out> } | { no ip arp timeout }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
arp		Configure ARP parameters
timeout		ARP timeout
<i>time-out</i>		Time-out value in seconds

Command Mode

- /exec/configure

ip arp timeout

```
{ ip arp timeout <time-out> } | { no ip arp timeout }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
arp		Configure ARP parameters
timeout	ARP timeout	
<i>time-out</i>	Time-out value in seconds	

Command Mode

- /exec/configure/config-mgmt /exec/configure/if-igp

ip 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

Syntax Description		
no	Negate a command or set its defaults	
ip	Configure IP features	
as-path	BGP autonomous system path filter	
access-list	Specify an access list name	
<i>aspl-name</i>	AS path access list name	
<i>aspl-name</i>	Known as-path access-list name	
timeout	(Optional) Timeout to be used for checking regex cpu hog	
<i>sec</i>	(Optional) No. of seconds used as timeout	
deny	Specify packets to reject	
permit	Specify packets to forward	
<i>line</i>	A	

Command Mode

- /exec/configure

ip as-path access-list deny

```
{ ip as-path access-list <aspl-name> [ timeout <sec> ] [ { deny | permit } <line> ] } | { no ip as-path access-list <aspl-name> [ timeout <sec> ] [ { deny | permit } <line> ] }
```

Syntax Description

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
as-path	BGP autonomous system path filter
access-list	Specify an access list name
<i>aspl-name</i>	AS path access list name
<i>aspl-name</i>	Known as-path access-list name
timeout	(Optional) Timeout to be used for checking regex cpu hog
<i>sec</i>	(Optional) No. of seconds used as timeout
deny	Specify packets to reject
permit	Specify packets to forward
<i>line</i>	A

Command Mode

- /exec/configure

ip as-path access-list seq deny

```
{ ip as-path access-list <aspl-name> seq <seq> [ timeout <sec> ] { { deny | permit } <line> } } | { no ip as-path access-list <aspl-name> seq <seq> [ timeout <sec> ] [ { deny | permit } <line> ] }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
as-path		BGP autonomous system path filter
access-list		Specify an access list name
<i>aspl-name</i>		AS path access list name
<i>aspl-name</i>		Known as-path access-list name
seq		Sequence number of an entry
<i>seq</i>		Sequence number
timeout	(Optional)	Timeout to be used for checking regex cpu hog
<i>sec</i>	(Optional)	No. of seconds used as timeout
deny		Specify packets to reject
permit		Specify packets to forward
<i>line</i>		A

Command Mode

- /exec/configure

ip authentication

```
[no] { ip | ipv6 } authentication { { key-chain eigrp <eigrp-ptag> <chain> } | { mode eigrp <eigrp-ptag> md5 } }
```

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	Configure IP features	
ipv6	Configure IPv6 features	
authentication	Configures EIGRP authentication subcommands	
key-chain	key-chain	
<i>eigrp-ptag</i>	Process tag	
<i>chain</i>	name of key-chain	
mode	mode	
eigrp	EIGRP interface configuration commands	
md5	Keyed message digest	
<i>eigrp-ptag</i>		

Command Mode

- /exec/configure/if-igp

ip auto-discard

[no] ip auto-discard

Syntax Description

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

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
bandwidth-percent	Configures IP-EIGRP bandwidth limit
eigrp	EIGRP interface configuration commands
<i>eigrp-ptag</i>	Process tag
<i>percent</i>	Maximum bandwidth percentage that EIGRP may use
<i>eigrp-ptag</i>	

Command Mode

- /exec/configure/if-igp

ip bandwidth eigrp

```
{ { { ip | ipv6 } bandwidth eigrp <eigrp-ptag> <bw> } | { no { ip | ipv6 } bandwidth eigrp <eigrp-ptag> [ <bw> ] } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
ipv6		Configure IPv6 features
bandwidth		Set bandwidth for interface used in EIGRP metric calculation
eigrp		EIGRP interface configuration commands
<i>eigrp-ptag</i>		Process tag
<i>bw</i>		Bandwidth in kilobits
<i>eigrp-ptag</i>		

Command Mode

- /exec/configure/if-igp

ip cache disable

[no] ip cache disable

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
ip	Configure IP features
cache	Disable cache
disable	Disable cache

Command Mode

- /exec/configure

ip community-list expanded deny

```
{ ip community-list expanded <name> [ timeout <sec> ] { deny | permit } <line> } | { no ip community-list
expanded <name> [ timeout <sec> ] [ { deny | permit } <line> ] }
```

Syntax Description

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
community-list	Add a community list entry
expanded	Add an expanded community list entry
<i>name</i>	Name of expanded community list
timeout	(Optional) Timeout to be used for checking regex cpu hog
<i>sec</i>	(Optional) No. of seconds used as timeout
deny	Specify community to reject
permit	Specify community to accept
<i>line</i>	Regular-expression(must

Command Mode

- /exec/configure

ip community-list expanded deny

```
{ ip community-list expanded <name> [ timeout <sec> ] { deny | permit } <line> } | { no ip community-list
expanded <name> [ timeout <sec> ] [ { deny | permit } <line> ] }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
community-list		Add a community list entry
expanded		Add an expanded community list entry
<i>name</i>		Name of expanded community list
timeout	(Optional)	Timeout to be used for checking regex cpu hog
<i>sec</i>	(Optional)	No. of seconds used as timeout
deny		Specify community to reject
permit		Specify community to accept
<i>line</i>		Regular-expression(must

Command Mode

- /exec/configure

ip community-list expanded seq deny

```
{ ip community-list expanded <name> seq <seq> [ timeout <sec> ] { deny | permit } <line> } | { no ip community-list expanded <name> seq <seq> [ timeout <sec> ] [ { deny | permit } <line> ] }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
community-list		Add a community list entry
expanded		Add an expanded community list entry
<i>name</i>		Name of expanded community list
seq		Sequence number of an entry
<i>seq</i>		Sequence number
timeout	(Optional)	Timeout to be used for checking regex cpu hog
<i>sec</i>	(Optional)	No. of seconds used as timeout
deny		Specify community to reject
permit		Specify community to accept
<i>line</i>		Regular-expression(must

Command Mode

- /exec/configure

ip community-list standard permit internet local-AS

```
{ ip community-list standard <name> { permit | deny } { internet | local-AS | no-advertise | no-export | <aann>
| <number> | <hex_num> } + } | { no ip community-list standard <name> [ permit | deny ] [ { internet | local-AS
| no-advertise | no-export | <aann> | <number> | <hex_num> } + ] }
```

Syntax Description

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
community-list	Add a community list entry
standard	Add a standard Community list entry
<i>name</i>	Standard community list name
permit	Specify community to accept
deny	Specify community to reject
internet	Internet (well-known community)
local-AS	Do not send outside local AS (well-known community)
no-advertise	Do not advertise to any peer (well-known community)
no-export	Do not export to next AS (well-known community)
<i>aann</i>	Community number aa:nn format
<i>number</i>	Community number
<i>hex_num</i>	Community number in hex
<i>internet</i>	(Optional) local-AS

Command Mode

- /exec/configure

ip community-list standard permit internet local-AS

```
{ ip community-list standard <name> { permit | deny } { internet | local-AS | no-advertise | no-export | <aann> | <number> | <hex_num> } + } | { no ip community-list standard <name> [ permit | deny ] [ { internet | local-AS | no-advertise | no-export | <aann> | <number> | <hex_num> } + ] }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
community-list		Add a community list entry
standard		Add a standard Community list entry
<i>name</i>		Standard community list name
permit		Specify community to accept
deny		Specify community to reject
internet		Internet (well-known community)
local-AS		Do not send outside local AS (well-known community)
no-advertise		Do not advertise to any peer (well-known community)
no-export		Do not export to next AS (well-known community)
<i>aann</i>		Community number aa:nn format
<i>number</i>		Community number
<i>hex_num</i>		Community number in hex
<i>internet</i>		(Optional) local-AS

Command Mode

- /exec/configure

ip community-list standard seq permit internet local-AS

```
{ ip community-list standard <name> seq <seq> { permit | deny } { internet | local-AS | no-advertise | no-export
| <aann> | <number> | <hex_num> } + } | { no ip community-list standard <name> seq <seq> [ permit | deny
] [ { internet | local-AS | no-advertise | no-export | <aann> | <number> | <hex_num> } + ] }
```

Syntax Description

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
community-list	Add a community list entry
standard	Add a standard Community list entry
<i>name</i>	Standard community list name
seq	Sequence number of an entry
<i>seq</i>	Sequence number
permit	Specify community to accept
deny	Specify community to reject
internet	Internet (well-known community)
local-AS	Do not send outside local AS (well-known community)
no-advertise	Do not advertise to any peer (well-known community)
no-export	Do not export to next AS (well-known community)
<i>aann</i>	Community number aa:nn format
<i>number</i>	Community number
<i>hex_num</i>	Community number in hex
<i>internet</i>	(Optional) local-AS

Command Mode

- /exec/configure

ip default-gateway

[no] ip default-gateway <ip-addr> [vrf { <vrf-name> | <vrf-known-name> }]

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
ip		Configure IP features
default-gateway		Configure default gateway
<i>ip-addr</i>		IP prefix in format i.i.i.i
vrf	(Optional)	Display per-VRF information
<i>vrf-name</i>	(Optional)	VRF name
<i>vrf-known-name</i>	(Optional)	Known VRF name

Command Mode

- /exec/configure /exec/configure/config-mgmt /exec/configure/vrf /exec/configure/if-gre-tunnel

ip delay eigrp

```
{ { { ip | ipv6 } delay eigrp <eigrp-ptag> <delay> [ picoseconds ] } | { no { ip | ipv6 } delay eigrp <eigrp-ptag> [ <delay> ] [ picoseconds ] } }
```

Syntax Description

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
delay	Set delay for interface used in EIGRP metric calculation
eigrp	EIGRP interface configuration commands
<i>eigrp-ptag</i>	Process tag
<i>delay</i>	Throughput delay
picoseconds	(Optional) Delay units in picoseconds
<i>eigrp-ptag</i>	

Command Mode

- /exec/configure/if-igp

ip destination

{ ip { destination | source } <addr> } | { no ip { destination | source } }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		specify flow ipv4 address
source		specify flow source ipv4 address
destination		specify flow destination ip address
<i>addr</i>		ipv4 address

Command Mode

- /exec/configure/configngoamprofileflow

ip dhcp packet strict-validation

[no] ip dhcp packet strict-validation

Syntax Description

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

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

Syntax Description		
no	(Optional)	Negate a command or set its defaults
ip		Configure IP features
dhcp		Configure DHCP snooping or relay
relay		Configure relay agent
address		Configure DHCP server to refer to
<i>ip-addr-val</i>	(Optional)	IP address
use-vrf	(Optional)	helper address VRF membership
<i>vrf-name</i>	(Optional)	VRF name

Command Mode

- /exec/configure/if-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

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

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

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

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

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

Syntax Description		
	ip	Configure IP features
	dhcp	Configure DHCP snooping or relay
	relay	Configure relay agent
	source-interface	Configure source interface for DHCP relay
	<i>interface-name</i>	Source interface

Command Mode

- /exec/configure /exec/configure/if-igp

ip dhcp relay source-interface

[no] ip dhcp relay source-interface

Syntax Description

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

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

Syntax Description		
no	(Optional)	Negate a command or set its defaults
ip		Configure IP features
dhcp		Configure DHCP snooping or relay
relay		DHCP relay agent parameters
sub-option		Relay agent suboption
circuit-id		Relay agent circuit-id suboption
format-type		Specify suboption format type
string		Use string format for suboption
format	(Optional)	Specify format string
<i>format-string</i>	(Optional)	Format string

Command Mode

- /exec/configure

ip dhcp relay sub-option type cisco

[no] ip dhcp relay sub-option type cisco

Syntax Description

Syntax Description		
	no	(Optional) Negate a command or set its defaults
	ip	Configure IP features
	dhcp	Configure DHCP snooping or relay
	relay	DHCP relay agent parameters
	sub-option	Relay agent suboption
	type	Relay agent suboption type
	cisco	Use Cisco proprietary suboptions

Command Mode

- /exec/configure

ip dhcp relay subnet-broadcast

[no] ip dhcp relay subnet-broadcast

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
ip		Configure IP features
dhcp		Configure DHCP snooping or relay
relay		Configure DHCP relay
subnet-broadcast		Configure DHCP relay subnet-broadcast on interface

Command Mode

- /exec/configure/if-igp

ip dhcp smart-relay

[no] ip dhcp smart-relay

Syntax Description

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

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

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

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

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	Configure IP features	
dhcp	Configure DHCP snooping or relay	
snooping	DHCP Snooping	
ipsg-excluded	exclude ipsg	
vlan	DHCP Snooping ipsg excluded vlan	
<i>vlan-id10</i>	VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19	

Command Mode

- /exec/configure

ip dhcp snooping trust

[no] ip dhcp snooping trust

Syntax Description

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

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

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	Configure IP features	
dhcp	Configure DHCP snooping or relay	
snooping	DHCP Snooping	
vlan	DHCP Snooping vlan	
<i>vlan-id10</i>	VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19	

Command Mode

- /exec/configure

ip directed-broadcast

[no] ip directed-broadcast [<acl-name>]

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
ip	Configure IP features
directed-broadcast	IP directed-broadcast
<i>acl-name</i>	(Optional) ACL policy name

Command Mode

- /exec/configure/if-igp /exec/configure/if-mgmt-config

ip distribute-list eigrp

```
[no] { ip | ipv6 } distribute-list eigrp <eigrp-ptag> { { route-map <map> } | { prefix-list <list> } } { in | out }
```

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	Configure IP features	
ipv6	Configure IPv6 features	
distribute-list	Filter networks in routing updates	
eigrp	EIGRP interface configuration commands	
<i>eigrp-ptag</i>	Process tag	
route-map	Use a route-map for route filtering	
<i>map</i>	Route-map name	
prefix-list	Use a prefix-list for route filtering	
<i>list</i>	Reference to prefix-list name	
in	Filter incoming routing updates	
out	Filter outgoing routing updates	

Command Mode

- /exec/configure/if-igp

ip dns source-interface

```
[no] ip dns source-interface <ifnum> [ vrf { <vrf-name> | <vrf-known-name> } ]
```

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
ip		Configure IP features
dns		Configure dns client
source-interface		Configure source interface feature for domain-lookup
<i>ifnum</i>		Source interface
vrf	(Optional)	Configure VRF
<i>vrf-name</i>	(Optional)	VRF name
<i>vrf-known-name</i>	(Optional)	Known VRF name

Command Mode

- /exec/configure

ip domain-list

```
[no] ip domain-list { <s0> | <s1> [ use-vrf { <vrf-name> | <vrf-known-name> } ] }
```

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
ip		Configure IP features
domain-list		Add additional domain names
<i>s0</i>		Enter a domain
<i>s1</i>		Enter a domain
use-vrf	(Optional)	Display per-VRF information
<i>vrf-name</i>	(Optional)	VRF name
<i>vrf-known-name</i>	(Optional)	Known VRF name

Command Mode

- /exec/configure /exec/configure/vrf

ip domain-lookup

[no] ip domain-lookup

Syntax Description

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

Syntax Description		
no	(Optional)	Negate a command or set its defaults
ip		Configure IP features
domain-name		Specify default domain name
<i>s0</i>		Enter the default domain
<i>s1</i>		Enter the default domain
use-vrf	(Optional)	Display per-VRF information
<i>vrf-name</i>	(Optional)	VRF name
<i>vrf-known-name</i>	(Optional)	Known VRF name

Command Mode

- /exec/configure /exec/configure/vrf

ip drop-glean

[no] ip drop-glean

Syntax Description

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

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
dscp-lop		Set DSCP to be used for locally originated packets for IPv4 and IPv6. Cos will not be set.
<i>dscp-val</i>		Specify DSCP value for Locally Originated packets for IPv4 and IPv6
<i>dscp-enum</i>		

Command Mode

- /exec/configure

ip eigrp bfd

[no] ip eigrp <eigrp-tag> bfd [disable]

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	Configure IP features	
eigrp	EIGRP interface configuration commands	
<i>eigrp-tag</i>	Process tag	
bfd	Enable BFD on this interface	
disable	(Optional) Disable BFD on this interface	

Command Mode

- /exec/configure/if-igp

ip eigrp event-history bfd size

[no] ip eigrp [<eigrp-ptag>] event-history bfd size { <size_in_text> | <size_in_Kbytes> }

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	Clear IP commands	
eigrp	EIGRP clear commands	
<i>eigrp-ptag</i>	(Optional) Process tag	
event-history	Event History of EIGRP	
bfd	Show bfd log of EIGRP	
size	Configure the size of the event-hist buffer	
<i>size_in_text</i>	Buffer size	
<i>size_in_Kbytes</i>	Size of the file in kbytes	

Command Mode

- /exec/configure

ip eigrp event-history errors

[no] { ip | ipv6 } eigrp [<eigrp-ptag>] event-history { errors | msgs }

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	Clear IP commands	
ipv6	Clear IPv6 commands	
eigrp	EIGRP clear commands	
<i>eigrp-ptag</i>	(Optional) Process tag	
event-history	Event History of EIGRP	
errors	Show error log of EIGRP	
msgs	Show message log of EIGRP	

Command Mode

- /exec/configure

ip eigrp event-history size

[no] { ip | ipv6 } eigrp [<eigrp-ptag>] event-history { fsm | packet | rib | cli } size { <size_in_text> | <size_in_Kbytes> }

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	Clear IP commands	
ipv6	Clear IPv6 commands	
eigrp	EIGRP clear commands	
<i>eigrp-ptag</i>	(Optional) Process tag	
event-history	Event History of EIGRP	
fsm	FSM log of EIGRP	
packet	Packet log of EIGRP	
rib	RIB log of EIGRP	
cli	EIGRP CLI related events	
size	Configure the size of the event-hist buffer	
<i>size_in_text</i>	Buffer size	
<i>size_in_Kbytes</i>	Size of the file in kbytes	

Command Mode

- /exec/configure

ip eigrp internal syslog rate-limit

[no] { ip | ipv6 } eigrp [<eigrp-ptag>] internal syslog rate-limit

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
ip		IP events
ipv6		IPv6 events
eigrp		Display EIGRP status and configuration
<i>eigrp-ptag</i>	(Optional)	Process tag
internal		Commands for internal use
syslog		control syslog message
rate-limit		rate-limiting

Command Mode

- /exec

ip eigrp shutdown

[no] { ip | ipv6 } eigrp <eigrp-ptag> shutdown

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
eigrp	EIGRP interface configuration commands
<i>eigrp-ptag</i>	Process tag
shutdown	Shutdown EIGRP on this interface

Command Mode

- /exec/configure/if-igp

ip extcommunity-list expanded deny

```
{ ip extcommunity-list expanded <name> { deny | permit } <line> } | { no ip extcommunity-list expanded
<name> [ { deny | permit } <line> ] }
```

Syntax Description

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
extcommunity-list	Add a extcommunity list entry
expanded	Add an expanded extcommunity list entry
<i>name</i>	Name of expanded extcommunity list
deny	Specify extcommunity to reject
permit	Specify extcommunity to accept
<i>line</i>	Regular-expression(must

Command Mode

- /exec/configure

ip extcommunity-list standard permit

```
{ ip extcommunity-list standard <name> { permit | deny } { { 4byteas-generic { transitive
<ext-comm-gen-trans> | non-transitive <ext-comm-gen-nontrans> } } | { rt { <ext-comm-rt-aa2nn4> |
<ext-comm-rt-aa4nn2> } } | { soo { <ext-comm-soo-aa2nn4> | <ext-comm-soo-aa4nn2> } } } + | { no ip
extcommunity-list standard <name> [ permit | deny ] [ { 4byteas-generic { transitive <ext-comm-gen-trans>
| non-transitive <ext-comm-gen-nontrans> } } | { rt { <ext-comm-rt-aa2nn4> | <ext-comm-rt-aa4nn2> } } |
{ soo { <ext-comm-soo-aa2nn4> | <ext-comm-soo-aa4nn2> } } ] + } }
```

Syntax Description

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
extcommunity-list	Add a extcommunity list entry
standard	Add a standard Extcommunity list entry
<i>name</i>	Standard extcommunity list name
permit	Specify extcommunity to accept
deny	Specify extcommunity to reject
4byteas-generic	Generic extended community
transitive	Transitive extcommunity
non-transitive	Non-Transitive extcommunity
rt	Router-Target
soo	Site-Of-Origin
<i>ext-comm-gen-trans</i>	Extcommunity number aa4:nn format
<i>ext-comm-gen-nontrans</i>	Extcommunity number aa4:nn format
<i>ext-comm-rt-aa2nn4</i>	Extcommunity number
<i>ext-comm-rt-aa4nn2</i>	Extcommunity number
<i>ext-comm-soo-aa2nn4</i>	Extcommunity number
<i>ext-comm-soo-aa4nn2</i>	Extcommunity number

Command Mode

- /exec/configure

ip flow monitor input

[no] ip flow monitor <monitorname> { input | output } [sampler <samplername>]

Syntax Description

Syntax Description		
	ip	Configure IP features
	flow	NetFlow related commands
	monitor	Apply a Flow Monitor to this interface
	<i>monitorname</i>	Name of Flow Monitor
	input	Apply Flow Monitor on input traffic
	output	Apply Flow Monitor on output traffic
	sampler	(Optional) Optional Sampler to apply to this Flow Monitor
	<i>samplername</i>	(Optional) Name of Sampler

Command Mode

- /exec/configure/if-routing /exec/configure/if-mgmt-ether /exec/configure/if-any-tunnel /exec/configure/if-eth-port-channel /exec/configure/if-eth-port-channel-p2p

ip flow monitor input

[no] ip flow monitor <monitorname> { input | output } [sampler <samplername>]

Syntax Description

Syntax Description		
	ip	Configure IP features
	flow	NetFlow related commands
	monitor	Apply a Flow Monitor to this interface
	<i>monitorname</i>	Name of Flow Monitor
	input	Apply Flow Monitor on input traffic
	output	Apply Flow Monitor on output traffic
	sampler	(Optional) Optional Sampler to apply to this Flow Monitor
	<i>samplername</i>	(Optional) Name of Sampler

Command Mode

- /exec/configure/vlan

ip flow monitor input

[no] ip flow monitor <monitorname> input [sampler <samplername>]

Syntax Description

Syntax Description		
	ip	Configure IP features
	flow	NetFlow related commands
	monitor	Apply a Flow Monitor to this interface
	<i>monitorname</i>	Name of Flow Monitor
	input	Apply Flow Monitor on input traffic
	sampler	(Optional) Optional Sampler to apply to this Flow Monitor
	<i>samplername</i>	(Optional) Name of Sampler

Command Mode

- /exec/configure/vlan-config

ip flow monitor input

[no] ip flow monitor <monitorname> { input | output } [sampler <samplername>]

Syntax Description

Syntax Description		
ip		Configure IP features
flow		NetFlow related commands
monitor		Apply a Flow Monitor to this interface
<i>monitorname</i>		Name of Flow Monitor
input		Apply Flow Monitor on input traffic
output		Apply Flow Monitor on output traffic
sampler	(Optional)	Optional Sampler to apply to this Flow Monitor
<i>samplername</i>	(Optional)	Name of Sampler

Command Mode

- /exec/configure/if-vlan-common

ip flow monitor output

ip flow monitor <monitorname> output [sampler <samplername>]

Syntax Description

Syntax Description

ip	Configure IP features
flow	NetFlow related commands
monitor	Apply a Flow Monitor to this interface
<i>monitorname</i>	Name of Flow Monitor
output	Apply Flow Monitor on output traffic
sampler	(Optional) Optional Sampler to apply to this Flow Monitor
<i>samplername</i>	(Optional) Name of Sampler

Command Mode

- /exec/configure/vlan-config

ip flow monitor output

[no] ip flow monitor <monitorname> output [sampler <samplername>]

Syntax Description

Syntax Description		
	ip	Configure IP features
	flow	NetFlow related commands
	monitor	Apply a Flow Monitor to this interface
	<i>monitorname</i>	Name of Flow Monitor
	output	Apply Flow Monitor on output traffic
	sampler	(Optional) Optional Sampler to apply to this Flow Monitor
	<i>samplername</i>	(Optional) Name of Sampler

Command Mode

- /exec/configure/vlan-config

ip forward

ip forward | no ip forward

Syntax Description

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

Syntax Description		
no	(Optional)	Negate a command or set its defaults
ip		Configure IP features
ftp		Configure FTP client
source-interface		Configure source interface feature for FTP client
<i>ifnum</i>		Source interface
vrf	(Optional)	Configure VRF
<i>vrf-name</i>	(Optional)	VRF name
<i>vrf-known-name</i>	(Optional)	Known VRF name

Command Mode

- /exec/configure

ip hello-interval eigrp

```
{ { { ip | ipv6 } hello-interval eigrp <eigrp-ptag> <hello-interval> } | { no { ip | ipv6 } hello-interval eigrp <eigrp-ptag> [ <hello-interval> ] } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
ipv6		Configure IPv6 features
hello-interval		Configures IP-EIGRP hello interval
eigrp		EIGRP interface configuration commands
<i>eigrp-ptag</i>		Process tag
<i>hello-interval</i>		Seconds between hello transmissions
<i>eigrp-ptag</i>		

Command Mode

- /exec/configure/if-igp

ip hold-time eigrp

```
{ { { ip | ipv6 } hold-time eigrp <eigrp-ptag> <holdtime> } | { no { ip | ipv6 } hold-time eigrp <eigrp-ptag> [ <holdtime> ] } }
```

Syntax Description

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
hold-time	Configures IP-EIGRP hold time
eigrp	EIGRP interface configuration commands
<i>eigrp-ptag</i>	Process tag
<i>holdtime</i>	Seconds before neighbor is considered down
<i>eigrp-ptag</i>	

Command Mode

- /exec/configure/if-igp

ip host

[no] ip host <s0> <ipv4_0>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
ip	Configure IP features
host	Add an entry to the ip hostname table
s0	Name of Host
ipv4_0	Enter an IP address

Command Mode

- /exec/configure

ip http source-interface

[no] ip http source-interface <ifnum> [vrf { <vrf-name> | <vrf-known-name> }]

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
ip		Configure IP features
http		Configure HTTP client
source-interface		Configure source interface feature for FTP client
<i>ifnum</i>		Source interface
vrf	(Optional)	Configure VRF
<i>vrf-name</i>	(Optional)	VRF name
<i>vrf-known-name</i>	(Optional)	Known VRF name

Command Mode

- /exec/configure

ip icmp-errors source-interface

ip icmp-errors source-interface <interface> [<icmp_type>] | no ip icmp-errors source-interface [<interface> <icmp_type>]

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
icmp-errors		ICMP unreachable/TTL-exceeded/param-prob messages
source-interface		Configure source-address for applications
<i>interface</i>		Interface to pick source-address from
<i>icmp_type</i>		(Optional) ICMPv6 types

Command Mode

- /exec/configure /exec/configure/vrf

ip igmp allow-v3-asm

[no] ip igmp allow-v3-asm

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	Configure IP features	
igmp	IGMP interface configuration commands	
allow-v3-asm	Accept IGMPv3 reports for non SSM groups	

Command Mode

- /exec/configure/if-igp

ip igmp any-query-destination

[no] ip igmp any-query-destination

Syntax Description

Syntax Description		
	no	(Optional) Negate a command or set its defaults
	ip	Configure IP features
	igmp	IGMP global configuration commands
	any-query-destination	Allow any destination-IP for General Queries

Command Mode

- /exec/configure

ip igmp bootup-delay

{ { no ip igmp bootup-delay [<delay>] } } | { ip igmp bootup-delay <delay> } }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
igmp		IGMP global configuration commands
bootup-delay		Configures bootup route add delay to RIB
delay		(Optional) Delay downloading in seconds

Command Mode

- /exec/configure

ip igmp enforce-router-alert

[no] ip igmp enforce-router-alert

Syntax Description

Syntax Description		
	no	(Optional) Negate a command or set its defaults
	ip	Configure IP features
	igmp	IGMP global configuration commands
	enforce-router-alert	Enforce Router Alert option check for IGMPv2 and IGMPv3 packets

Command Mode

- /exec/configure

ip igmp event-history cli

[no] ip igmp event-history cli { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	Configure IP features	
igmp	IGMP global configuration commands	
event-history	Configure event-history buffers	
cli	CLI events for IGMP	
size	Configure size	
<i>size_in_text</i>	Buffer size	
<i>size_in_kbytes</i>	Size in kbytes	

Command Mode

- /exec/configure

ip igmp event-history ha

[no] ip igmp event-history ha { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	Configure IP features	
igmp	IGMP global configuration commands	
event-history	Configure event-history buffers	
ha	HA events for IGMP	
size	Configure size	
<i>size_in_text</i>	Buffer size	
<i>size_in_kbytes</i>	Size in kbytes	

Command Mode

- /exec/configure

ip igmp event-history igmp-internal

[no] ip igmp event-history igmp-internal { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	Configure IP features	
igmp	IGMP global configuration commands	
event-history	Configure event-history buffers	
igmp-internal	Internal events for IGMP	
size	Configure size	
<i>size_in_text</i>	Buffer size	
<i>size_in_kbytes</i>	Size in kbytes	

Command Mode

- /exec/configure

ip igmp event-history interface

```
[no] ip igmp event-history { interface-events | group-events } { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	Configure IP features	
igmp	IGMP global configuration commands	
event-history	Configure event-history buffers	
interface-events	Interface-events for IGMP	
group-events	Group-events for IGMP	
size	Configure size	
<i>size_in_text</i>	Buffer size	
<i>size_in_kbytes</i>	Size in kbytes	

Command Mode

- /exec/configure

ip igmp event-history interface

```
[no] ip igmp event-history { interface-debug | group-debug } { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	Configure IP features	
igmp	IGMP global configuration commands	
event-history	Configure event-history buffers	
interface-debug	Interface-debug for IGMP	
group-debug	Group-debug for IGMP	
size	Configure size	
<i>size_in_text</i>	Buffer size	
<i>size_in_kbytes</i>	Size in kbytes	

Command Mode

- /exec/configure

ip igmp event-history mtrace

```
[no] ip igmp event-history mtrace { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	Configure IP features	
igmp	IGMP global configuration commands	
event-history	Configure event-history buffers	
mtrace	Mtrace events for IGMP	
size	Configure size	
<i>size_in_text</i>	Buffer size	
<i>size_in_kbytes</i>	Size in kbytes	

Command Mode

- /exec/configure

ip igmp event-history policy

[no] ip igmp event-history policy { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	Configure IP features	
igmp	IGMP global configuration commands	
event-history	Configure event-history buffers	
policy	Policy events for IGMP	
size	Configure size	
<i>size_in_text</i>	Buffer size	
<i>size_in_kbytes</i>	Size in kbytes	

Command Mode

- /exec/configure

ip igmp event-history vrf

```
[no] ip igmp event-history vrf { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	Configure IP features	
igmp	IGMP global configuration commands	
event-history	Configure event-history buffers	
vrf	VRF events for IGMP	
size	Configure size	
<i>size_in_text</i>	Buffer size	
<i>size_in_kbytes</i>	Size in kbytes	

Command Mode

- /exec/configure

ip igmp file-debug

[no] ip igmp file-debug

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
file-debug	Collect all debugs to a file

Command Mode

- /exec/configure

ip igmp flush-routes

[no] ip igmp flush-routes

Syntax Description

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-specific-strict

[no] ip igmp group-specific-strict

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
ip		Configure IP features
igmp		IGMP global configuration commands
group-specific-strict		Enable group specific consistency check

Command Mode

- /exec/configure

ip igmp group-timeout

```
{ { no ip igmp group-timeout [ <time> ] } | { ip igmp group-timeout <time> } }
```

Syntax Description

Syntax Description	no	Description
	no	Negate a command or set its defaults
	ip	Configure IP features
	igmp	IGMP interface configuration commands
	group-timeout	Configures group membership timeout for IGMPv2
	<i>time</i>	(Optional) Time in seconds

Command Mode

- /exec/configure/if-igp

ip igmp ha-stateful

[no] ip igmp ha-stateful

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
ip		Configure IP features
igmp		IGMP global configuration commands
ha-stateful		Enable stateful IGMP HA

Command Mode

- /exec/configure

ip igmp immediate-leave

[no] ip igmp immediate-leave

Syntax Description

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

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	Configure IP features	
igmp	IGMP interface configuration commands	
join-group	Configures local group membership for router	
<i>group</i>	Multicast group IP address	
source	(Optional) Configures source address for IGMPv3 (S,G) Channel	
<i>source</i>	(Optional) Source IP address	
route-map	Join group policy	
<i>route-map-name</i>	route-map name	

Command Mode

- /exec/configure/if-igp

ip igmp last-member-query-count

```
{ { no ip igmp last-member-query-count [ <count> ] } | { ip igmp last-member-query-count <count> } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
igmp		IGMP interface configuration commands
last-member-query-count		Configures number of group-specific Queries sent
<i>count</i>		(Optional) Count value

Command Mode

- /exec/configure/if-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

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
igmp		IGMP interface configuration commands
last-member-query-response-time		Configures last member query response time
<i>interval</i>		(Optional) Interval in seconds

Command Mode

- /exec/configure/if-igp

ip igmp querier

```
{ { no ip igmp { querier-timeout | query-timeout } [ <time> ] } | { ip igmp { querier-timeout | query-timeout } <time> } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
igmp		IGMP interface configuration commands
querier-timeout		Configures querier timeout for IGMPv2
query-timeout		Configures querier timeout for IGMPv2
<i>time</i>		(Optional) Time in seconds

Command Mode

- /exec/configure/if-igp

ip igmp query-interval

```
{ { no ip igmp query-interval [ <interval> ] } | { ip igmp query-interval <interval> } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
igmp		IGMP interface configuration commands
query-interval		Configures interval between Query transmission
<i>interval</i>		(Optional) Interval in seconds

Command Mode

- /exec/configure/if-igp

ip igmp query-max-response-time

```
{ { no ip igmp query-max-response-time [ <time> ] } | { ip igmp query-max-response-time <time> } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
igmp		IGMP interface configuration commands
query-max-response-time		Configures MRT for query messages
<i>time</i>		(Optional) Time in seconds

Command Mode

- /exec/configure/if-igp

ip igmp report-link-local-groups

[no] ip igmp report-link-local-groups

Syntax Description

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

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
igmp		IGMP interface configuration commands
report-policy		IGMP Report Policy
access-group		IGMP access-group
<i>route-map-name</i>		Route-map name
prefix-list		Prefix list policy
<i>prefix-list-name</i>		prefix-list name

Command Mode

- /exec/configure/if-igp

ip igmp robustness-variable

```
{ { no ip igmp robustness-variable [ <value> ] } | { ip igmp robustness-variable <value> } }
```

Syntax Description

Syntax Description		
	no	Negate a command or set its defaults
	ip	Configure IP features
	igmp	IGMP interface configuration commands
	robustness-variable	Configures RFC defined Robustness Variable
	<i>value</i>	(Optional) Count value

Command Mode

- /exec/configure/if-igp

ip igmp snooping

{ { no ip igmp snooping } | { ip igmp snooping } }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
igmp		IGMP configuration commands
snooping		Configures IGMP Snooping

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping

{ { no ip igmp snooping } | { ip igmp snooping } }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
igmp		IGMP configuration commands
snooping		Configures IGMP Snooping

Command Mode

- /exec/configure/vlan

ip igmp snooping

{ { no ip igmp snooping } | { ip igmp snooping } }

Syntax Description

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 { ha-stateful | cc-mode | m2rib-max-omfs <omf-count> | m2rib-max-omf-routes <omf-route-count> | m2rib-max-routes <route-count> | m2rib-max-buffers <buf-count> }

Syntax Description

Syntax Description		
ip		Configure IP features
igmp		IGMP global configuration commands
snooping		Configures IGMP Snooping
no		(Optional) Negate a command or set its defaults
ha-stateful		Enable stateful IGMP-Snooping HA
cc-mode		Enter MFDM congestion-control mode
m2rib-max-omfs		Number of OMF entries in M2RIB buffer
m2rib-max-routes		Number of route entries in M2RIB buffer
m2rib-max-omf-routes		Number of omf route entries in M2RIB buffer
m2rib-max-buffers		Number of update buffers with M2RIB
	<i>omf-count</i>	
	<i>route-count</i>	
	<i>buf-count</i>	
	<i>omf-route-count</i>	

Command Mode

- /exec/configure

ip igmp snooping disable-nve-static-router-port

[no] ip igmp snooping disable-nve-static-router-port

Syntax Description

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 event-history igmp-snoop-internal

[no] ip igmp snooping event-history igmp-snoop-internal { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	Configure IP features	
igmp	IGMP global configuration commands	
snooping	Configures IGMP Snooping	
event-history	Configure event-history buffers	
igmp-snoop-internal	Internal events for IGMP-snoop	
size	Configure size	
<i>size_in_text</i>	Buffer size	
<i>size_in_kbytes</i>	Size in kbytes	

Command Mode

- /exec/configure

ip igmp snooping event-history mfdm-sum

[no] ip igmp snooping event-history mfdm-sum { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	Configure IP features	
igmp	IGMP global configuration commands	
snooping	Configures IGMP Snooping	
event-history	Configure event-history buffers	
mfdm-sum	MFDM-SUM events for IGMP-snoop	
size	Configure size	
<i>size_in_text</i>	Buffer size	
<i>size_in_kbytes</i>	Size in kbytes	

Command Mode

- /exec/configure

ip igmp snooping event-history mfdm

[no] ip igmp snooping event-history mfdm { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	Configure IP features	
igmp	IGMP global configuration commands	
snooping	Configures IGMP Snooping	
event-history	Configure event-history buffers	
mfdm	MFDM events for IGMP-snoop	
size	Configure size	
<i>size_in_text</i>	Buffer size	
<i>size_in_kbytes</i>	Size in kbytes	

Command Mode

- /exec/configure

ip igmp snooping event-history rib

[no] ip igmp snooping event-history rib { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	Configure IP features	
igmp	IGMP global configuration commands	
snooping	Configures IGMP Snooping	
event-history	Configure event-history buffers	
rib	RIB events for IGMP-snoop	
size	Configure size	
<i>size_in_text</i>	Buffer size	
<i>size_in_kbytes</i>	Size in kbytes	

Command Mode

- /exec/configure

ip igmp snooping event-history vlan-events

[no] ip igmp snooping event-history vlan-events { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	Configure IP features	
igmp	IGMP global configuration commands	
snooping	Configures IGMP Snooping	
event-history	Configure event-history buffers	
vlan-events	VLAN/BD events for IGMP-snoop	
size	Configure size	
<i>size_in_text</i>	Buffer size	
<i>size_in_kbytes</i>	Size in kbytes	

Command Mode

- /exec/configure

ip igmp snooping event-history vlan

```
[no] ip igmp snooping event-history vlan { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	Configure IP features	
igmp	IGMP global configuration commands	
snooping	Configures IGMP Snooping	
event-history	Configure event-history buffers	
vlan	VLAN/BD events for IGMP-snoop	
size	Configure size	
<i>size_in_text</i>	Buffer size	
<i>size_in_kbytes</i>	Size in kbytes	

Command Mode

- /exec/configure

ip igmp snooping event-history vpc

[no] ip igmp snooping event-history vpc { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	Configure IP features	
igmp	IGMP global configuration commands	
snooping	Configures IGMP Snooping	
event-history	Configure event-history buffers	
vpc	VPC events for IGMP-snoop	
size	Configure size	
<i>size_in_text</i>	Buffer size	
<i>size_in_kbytes</i>	Size in kbytes	

Command Mode

- /exec/configure

ip igmp snooping explicit-tracking

{ { no ip igmp snooping explicit-tracking } | { ip igmp snooping explicit-tracking } }

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	ip	Configure IP features
	igmp	IGMP configuration commands
	snooping	Configures IGMP Snooping
	explicit-tracking	Configures Explicit Host tracking for VLAN/BD

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping explicit-tracking

{ { no ip igmp snooping explicit-tracking } | { ip igmp snooping explicit-tracking } }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
igmp		IGMP configuration commands
snooping		Configures IGMP Snooping
explicit-tracking		Configures Explicit Host tracking for VLAN/BD

Command Mode

- /exec/configure/vlan

ip igmp snooping fast-leave

```
{ { no ip igmp snooping fast-leave } | { ip igmp snooping fast-leave } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
igmp		IGMP configuration commands
snooping		Configures IGMP Snooping
fast-leave		Configures Fast leave for the VLAN/BD

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping fast-leave

{ { no ip igmp snooping fast-leave } | { ip igmp snooping fast-leave } }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
igmp		IGMP configuration commands
snooping		Configures IGMP Snooping
fast-leave		Configures Fast leave for the VLAN/BD

Command Mode

- /exec/configure/vlan

ip igmp snooping group-timeout

[no] ip igmp snooping group-timeout { <timeout> | never }

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
ip		Configure IP features
igmp		IGMP configuration commands
snooping		Configures IGMP Snooping
group-timeout		Configures group membership timeout in VLAN/BD
<i>timeout</i>		Timeout in minutes
never		Never expire ports from group membership

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping group-timeout

[no] ip igmp snooping group-timeout { <timeout> | never }

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
ip		Configure IP features
igmp		IGMP configuration commands
snooping		Configures IGMP Snooping
group-timeout		Configures group membership timeout in all VLAN/BDs
<i>timeout</i>		Timeout in minutes
never		Never expire ports from group membership

Command Mode

- /exec/configure

ip igmp snooping last-member-query-count

```
{ { no ip igmp snooping last-member-query-count [ <count> ] } | { ip igmp snooping last-member-query-count <count> } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
igmp		IGMP configuration commands
snooping		Configures IGMP Snooping
last-member-query-count		Configures number of group-specific queries sent
<i>count</i>		(Optional) Count value

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping last-member-query-count

```
{ { no ip igmp snooping last-member-query-count [ <count> ] } | { ip igmp snooping last-member-query-count <count> } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
igmp		IGMP configuration commands
snooping		Configures IGMP Snooping
last-member-query-count		Configures number of group-specific queries sent
<i>count</i>		(Optional) Count value

Command Mode

- /exec/configure/vlan

ip igmp snooping last-member-query-interval

```
{ { no ip igmp snooping last-member-query-interval [ <interval> ] } | { ip igmp snooping
last-member-query-interval <interval> } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
igmp		IGMP configuration commands
snooping		Configures IGMP Snooping
last-member-query-interval		Configures interval between group-specific Query transmissions
<i>interval</i>		(Optional) Interval in seconds

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping last-member-query-interval

```
{ { no ip igmp snooping last-member-query-interval [ <interval> ] } | { ip igmp snooping
last-member-query-interval <interval> } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
igmp		IGMP configuration commands
snooping		Configures IGMP Snooping
last-member-query-interval		Configures interval between group-specific Query transmissions
<i>interval</i>		(Optional) Interval in seconds

Command Mode

- /exec/configure/vlan

ip igmp snooping link-local-groups-suppression

[no] ip igmp snooping link-local-groups-suppression

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
ip		Configure IP features
igmp		IGMP configuration commands
snooping		Configures IGMP Snooping
link-local-groups-suppression		Configures VLAN/BD link-local groups suppression

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping link-local-groups-suppression

[no] ip igmp snooping link-local-groups-suppression

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
ip		Configure IP features
igmp		IGMP configuration commands
snooping		Configures IGMP Snooping
link-local-groups-suppression		Configures VLAN/BD link-local groups suppression

Command Mode

- /exec/configure/vlan

ip igmp snooping link-local-groups-suppression

[no] ip igmp snooping link-local-groups-suppression

Syntax Description

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 Global link-local groups suppression

Command Mode

- /exec/configure

ip igmp snooping max-gq-miss

{ { no ip igmp snooping max-gq-miss } | { ip igmp snooping max-gq-miss <count> } }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
igmp		IGMP global configuration commands
snooping		Configures IGMP Snooping
max-gq-miss		Configure general query miss count
<i>count</i>		Max number of GQ misses allowed

Command Mode

- /exec/configure

ip igmp snooping mrouter interface

```
{ { no ip igmp snooping mrouter interface <interface> } | { ip igmp snooping mrouter interface <interface> } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
igmp		IGMP configuration commands
snooping		Configures IGMP Snooping
mrouter		Configures static multicast router interface
interface		Specify interface for static-mrouter
<i>interface</i>		Interface name

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping mrouter interface

```
{ { no ip igmp snooping mrouter interface <interface> } | { ip igmp snooping mrouter interface <interface> } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
igmp		IGMP configuration commands
snooping		Configures IGMP Snooping
mrouter		Configures static multicast router interface
interface		Specify interface for static-mrouter
<i>interface</i>		Interface name

Command Mode

- /exec/configure/vlan

ip igmp snooping mrouter vpc-peer-link

[no] ip igmp snooping mrouter vpc-peer-link

Syntax Description

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	
vpc-peer-link	Specify vpc-peer-link as static mrouter for all VLAN/BDS	

Command Mode

- /exec/configure

ip igmp snooping optimised-multicast-flood

[no] ip igmp snooping optimised-multicast-flood

Syntax Description

Syntax Description		
	no	(Optional) Negate a command or set its defaults
	ip	Configure IP features
	igmp	IGMP configuration commands
	snooping	Configures IGMP Snooping
	optimised-multicast-flood	Configures Optimised Multicast Flood (OMF) on the VLAN/BD

Command Mode

- /exec/configure/vlan

ip igmp snooping proxy-leave use-group-address

```
{ { ip igmp snooping proxy-leave use-group-address } | { no ip igmp snooping proxy-leave use-group-address } }
```

Syntax Description

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

Syntax Description		
no	(Optional)	Negate a command or set its defaults
ip		Configure IP features
igmp		IGMP configuration commands
snooping		Configures IGMP Snooping
proxy		Configures IGMP snooping proxy
general-queries		Configures proxy for general-queries
mrt	(Optional)	Configure max-response-time for the switch's proxy general-queries
<i>mrt</i>	(Optional)	MRT in seconds

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping proxy general-queries

[no] ip igmp snooping proxy general-queries [mrt <mrt>]

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
ip		Configure IP features
igmp		IGMP configuration commands
snooping		Configures IGMP Snooping
proxy		Configures IGMP snooping proxy
general-queries		Configures proxy for general-queries
mrt	(Optional)	Configure max-response-time for the switch's proxy general-queries
<i>mrt</i>	(Optional)	MRT in seconds

Command Mode

- /exec/configure

ip igmp snooping querier-timeout

{ { no ip igmp snooping querier-timeout [<time>] } | { ip igmp snooping querier-timeout <time> } }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
igmp		IGMP configuration commands
snooping		Configures IGMP Snooping
querier-timeout		Configures querier timeout for IGMPv2
<i>time</i>		(Optional) Time in seconds

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping querier-timeout

```
{ { no ip igmp snooping querier-timeout [ <time> ] } | { ip igmp snooping querier-timeout <time> } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
igmp		IGMP configuration commands
snooping		Configures IGMP Snooping
querier-timeout		Configures querier timeout for IGMPv2
<i>time</i>		(Optional) Time in seconds

Command Mode

- /exec/configure/vlan

ip igmp snooping querier

{ { no ip igmp snooping querier [<querier>] } | { ip igmp snooping querier <querier> } }

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	ip	Configure IP features
	igmp	IGMP configuration commands
	snooping	Configures IGMP Snooping
	querier	Enables snooping querier
	<i>querier</i>	(Optional) Querier IP address

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping querier

```
{ { no ip igmp snooping querier [ <querier> ] } } | { ip igmp snooping querier <querier> } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
igmp		IGMP configuration commands
snooping		Configures IGMP Snooping
querier		Enables snooping querier
<i>querier</i>	(Optional)	Querier IP address

Command Mode

- /exec/configure/vlan

ip igmp snooping query-interval

{ { no ip igmp snooping query-interval [<interval>] } | { ip igmp snooping query-interval <interval> } }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
igmp		IGMP configuration commands
snooping		Configures IGMP Snooping
query-interval		Configures interval between query transmission
<i>interval</i>		(Optional) Interval in seconds

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping query-interval

```
{ { no ip igmp snooping query-interval [ <interval> ] } | { ip igmp snooping query-interval <interval> } }
```

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	ip	Configure IP features
	igmp	IGMP configuration commands
	snooping	Configures IGMP Snooping
	query-interval	Configures interval between query transmission
	<i>interval</i>	(Optional) Interval in seconds

Command Mode

- /exec/configure/vlan

ip igmp snooping query-max-response-time

{ { no ip igmp snooping query-max-response-time [<time>] } | { ip igmp snooping query-max-response-time <time> } }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
igmp		IGMP configuration commands
snooping		Configures IGMP Snooping
query-max-response-time		Configures MRT for query messages
<i>time</i>		(Optional) Time in seconds

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping query-max-response-time

```
{ { no ip igmp snooping query-max-response-time [ <time> ] } | { ip igmp snooping query-max-response-time <time> } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
igmp		IGMP configuration commands
snooping		Configures IGMP Snooping
query-max-response-time		Configures MRT for query messages
<i>time</i>		(Optional) Time in seconds

Command Mode

- /exec/configure/vlan

ip igmp snooping report-flood all

{ { ip igmp snooping report-flood { all | interface <interface> } } | { no ip igmp snooping report-flood { all | interface <interface> } } }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
igmp		IGMP configuration commands
snooping		Configures IGMP Snooping
report-flood		Configures Report flooding on a VLAN
interface		Specify interface for report flooding
all		Flood on ALL active ports of VLAN
<i>interface</i>		Interface name

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping report-suppression

{ { no ip igmp snooping report-suppression } | { ip igmp snooping report-suppression } }

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	ip	Configure IP features
	igmp	IGMP configuration commands
	snooping	Configures IGMP Snooping
	report-suppression	Configures IGMPv1/IGMPv2 Report Suppression for the VLAN/BD

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping report-suppression

{ { no ip igmp snooping report-suppression } | { ip igmp snooping report-suppression } }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
igmp		IGMP configuration commands
snooping		Configures IGMP Snooping
report-suppression		Configures IGMPv1/IGMPv2 Report Suppression for the VLAN/BD

Command Mode

- /exec/configure/vlan

ip igmp snooping report-suppression

{ { no ip igmp snooping report-suppression } | { ip igmp snooping report-suppression } }

Syntax Description

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 Global IGMPv1/IGMPv2 Report Suppression

Command Mode

- /exec/configure

ip igmp snooping report prefix interface

```
{ [ no ] ip igmp snooping { report-policy | access-group } { prefix-list | route-map } <pname> interface <interface> }
```

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	Configure IP features	
igmp	IGMP configuration commands	
snooping	Configures IGMP Snooping	
report-policy	IGMP Report Policy	
access-group	IGMP access-group	
prefix-list	IPv4 Prefix-List Policy	
route-map	Route-Map Policy	
<i>pname</i>	Policy Name Name	
interface	Specify interface for filtering	
<i>interface</i>	Interface name	

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping robustness-variable

```
{ { no ip igmp snooping robustness-variable [ <value> ] } | { ip igmp snooping robustness-variable <value> } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
igmp		IGMP configuration commands
snooping		Configures IGMP Snooping
robustness-variable		Configures RFC defined Robustness Variable
<i>value</i>		(Optional) Count value

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping robustness-variable

```
{ { no ip igmp snooping robustness-variable [ <value> ] } | { ip igmp snooping robustness-variable <value> } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
igmp		IGMP configuration commands
snooping		Configures IGMP Snooping
robustness-variable		Configures RFC defined Robustness Variable
<i>value</i>		(Optional) Count value

Command Mode

- /exec/configure/vlan

ip igmp snooping self-mac-check

[no] ip igmp snooping self-mac-check

Syntax Description

Syntax Description		
	no	(Optional) Negate a command or set its defaults
	ip	Configure IP features
	igmp	IGMP global configuration commands
	self-mac-check	enable loopback packet check and drop it
	snooping	Configures IGMP Snooping

Command Mode

- /exec/configure

ip igmp snooping startup-query-count

```
{ { no ip igmp snooping startup-query-count [ <count> ] } | { ip igmp snooping startup-query-count <count> } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
igmp		IGMP configuration commands
snooping		Configures IGMP Snooping
startup-query-count		Configures number of queries sent at startup
<i>count</i>		(Optional) Count value

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping startup-query-count

```
{ { no ip igmp snooping startup-query-count [ <count> ] } | { ip igmp snooping startup-query-count <count> } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
igmp		IGMP configuration commands
snooping		Configures IGMP Snooping
startup-query-count		Configures number of queries sent at startup
<i>count</i>		(Optional) Count value

Command Mode

- /exec/configure/vlan

ip igmp snooping startup-query-interval

{ { no ip igmp snooping startup-query-interval [<interval>] } | { ip igmp snooping startup-query-interval <interval> } }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
igmp		IGMP configuration commands
snooping		Configures IGMP Snooping
startup-query-interval		Configures query interval at startup
<i>interval</i>		(Optional) Interval in seconds

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping startup-query-interval

```
{ { no ip igmp snooping startup-query-interval [ <interval> ] } | { ip igmp snooping startup-query-interval <interval> } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
igmp		IGMP configuration commands
snooping		Configures IGMP Snooping
startup-query-interval		Configures query interval at startup
<i>interval</i>		(Optional) Interval in seconds

Command Mode

- /exec/configure/vlan

ip igmp snooping static-group interface

```
{ { no ip igmp snooping static-group <group> [ source <source> ] interface <interface> } | { ip igmp snooping static-group <group> [ source <source> ] interface <interface> } }
```

Syntax Description

Syntax Description		
no	Negate a command or set its defaults	
ip	Configure IP features	
igmp	IGMP configuration commands	
snooping	Configures IGMP Snooping	
static-group	Configures static group membership	
<i>group</i>	Group IP Address	
source	(Optional) Configures static (S,G) channel	
<i>source</i>	(Optional) Source IP Address	
interface	Specify interface for static-group	
<i>interface</i>	Interface name	

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping static-group interface

```
{ { no ip igmp snooping static-group <group> [ source <source> ] interface <interface> } | { ip igmp snooping static-group <group> [ source <source> ] interface <interface> } }
```

Syntax Description

Syntax Description		
<code>no</code>		Negate a command or set its defaults
<code>ip</code>		Configure IP features
<code>igmp</code>		IGMP configuration commands
<code>snooping</code>		Configures IGMP Snooping
<code>static-group</code>		Configures static group membership
<code>group</code>		Group IP Address
<code>source</code>		(Optional) Configures static (S,G) channel
<code>source</code>		(Optional) Source IP Address
<code>interface</code>		Specify interface for static-group
<code>interface</code>		Interface name

Command Mode

- /exec/configure/vlan

ip igmp snooping syslog-threshold

{ ip igmp snooping syslog-threshold <percentage> } | { no ip igmp snooping syslog-threshold }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
igmp		IGMP configuration commands
snooping		Configures IGMP Snooping
syslog-threshold		IGMP SNOOPING table syslog threshold
<i>percentage</i>		Percentage

Command Mode

- /exec/configure

ip igmp snooping v3-report-suppression

```
{ { no ip igmp snooping v3-report-suppression } | { ip igmp snooping v3-report-suppression } }
```

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	ip	Configure IP features
	igmp	IGMP configuration commands
	snooping	Configures IGMP Snooping
	v3-report-suppression	Configures IGMPv3 Report Suppression and Proxy Reporting for the VLAN/BD

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping v3-report-suppression

{ { no ip igmp snooping v3-report-suppression } | { ip igmp snooping v3-report-suppression } }

Syntax Description

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
v3-report-suppression	Configures IGMPv3 Report Suppression and Proxy Reporting for the VLAN/BD

Command Mode

- /exec/configure/vlan

ip igmp snooping v3-report-suppression

```
{ { no ip igmp snooping v3-report-suppression } | { ip igmp snooping v3-report-suppression } }
```

Syntax Description

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 Global IGMPv3 Report Suppression and Proxy Reporting

Command Mode

- /exec/configure

ip igmp snooping version

{ { no ip igmp snooping version [<version>] } } | { ip igmp snooping version <version> } }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
igmp		IGMP configuration commands
snooping		Configures IGMP Snooping
version		Configures IGMP version number for VLAN/BD
<i>version</i>	(Optional)	Version number value

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping version

```
{ { no ip igmp snooping version [ <version> ] } | { ip igmp snooping version <version> } }
```

Syntax Description

Syntax Description		
no	Negate a command or set its defaults	
ip	Configure IP features	
igmp	IGMP configuration commands	
snooping	Configures IGMP Snooping	
version	Configures IGMP version number for VLAN/BD	
<i>version</i>	(Optional) Version number value	

Command Mode

- /exec/configure/vlan

ip igmp snooping vpc

ip igmp snooping vpc { clear-cfs-flag | clear-pending-flag | clear-native-flag }

Syntax Description

Syntax Description		
ip		Configure IP features
igmp		IGMP global configuration commands
snooping		Configures IGMP Snooping
vpc		vPC related command
clear-cfs-flag		clear cfs learnt flag from the routes / oifs
clear-native-flag		clear native learnt flag from the routes / oifs
clear-pending-flag		clear pending flag if set

Command Mode

- /exec

ip igmp snooping vpc

ip igmp snooping vpc [vpc-incremental | vpc-sync-only]

Syntax Description

Syntax Description		
	ip	Configure IP features
	igmp	IGMP global configuration commands
	snooping	Configures IGMP Snooping
	vpc	vPC related events
	vpc-sync-only	(Optional) default - no vpc-incremental with route proxy disabled
	vpc-incremental	(Optional) vpc-incremental mode with route proxy enabled

Command Mode

- /exec/configure

ip igmp snooping vpc peer-link-exclude

[no] ip igmp snooping vpc peer-link-exclude

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
ip		Configure IP features
igmp		IGMP configuration commands
snooping		Configures IGMP Snooping
vpc		Configures vPC
peer-link-exclude		Exclude vPC Peer-link for Routed multicast traffic

Command Mode

- /exec/configure

ip igmp snooping vpc peer-routes-download

ip igmp snooping vpc peer-routes-download [stale]

Syntax Description

Syntax Description

ip	Configure IP features
igmp	IGMP global configuration commands
snooping	Configures IGMP Snooping
vpc	vPC related command
peer-routes-download	get peer-learned routes
stale	(Optional) stale the cfs learned entry, i.e. clear cfs_flag

Command Mode

- /exec

ip igmp snooping vxlan-umc drop

[no] ip igmp snooping vxlan-umc drop [vlan <vlans-range>]

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
snooping	Configures IGMP Snooping
vxlan-umc	Turn off flooding on VLANs
drop	Drop unknown multicast traffic on all VLANs
vlan	(Optional) VLAN list to drop the unknown multicast traffic
<i>vlans-range</i>	(Optional) VLAN IDs for which unknown multicast traffic is dropped

Command Mode

- /exec/configure

ip igmp snooping vxlan

{ { no ip igmp snooping vxlan } | { ip igmp snooping vxlan } }

Syntax Description

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

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

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	Configure IP features	
igmp	IGMP global configuration commands	
ssm-translate	Translate IGMPv1/v2 reports to (S,G) route entries	
<i>group</i>	IP Multicast group range	
<i>source</i>	IP Multicast address source	

Command Mode

- /exec/configure /exec/configure/vrf

ip igmp startup-query-count

```
{ { no ip igmp startup-query-count [ <count> ] } | { ip igmp startup-query-count <count> } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
igmp		IGMP interface configuration commands
startup-query-count		Configures number of queries sent at startup
<i>count</i>		(Optional) Count value

Command Mode

- /exec/configure/if-igp

ip igmp startup-query-interval

```
{ { no ip igmp startup-query-interval [ <interval> ] } | { ip igmp startup-query-interval <interval> } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
igmp		IGMP interface configuration commands
startup-query-interval		Configures query interval at startup
<i>interval</i>		(Optional) Interval in seconds

Command Mode

- /exec/configure/if-igp

ip igmp state-limit

```
{ { ip igmp state-limit <max-states> [ reserved <route-map-name> <max-reserved> ] } | { no ip igmp state-limit [ <max-states> [ reserved <route-map-name> <max-reserved> ] ] } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
igmp		IGMP interface configuration commands
state-limit		Configures State limit
<i>max-states</i>		Maximum states allowed
reserved	(Optional)	Reserve the states using route-map
<i>route-map-name</i>	(Optional)	Route-map name
<i>max-reserved</i>	(Optional)	Maximum (*,G)/(S,G) entires allowed on the interface

Command Mode

- /exec/configure/if-igp

ip igmp static

```
[no] ip igmp { static-group | static-oif } { { <group> [ source <source> ] } | { route-map <route-map-name> } }
```

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
ip		Configure IP features
igmp		IGMP interface configuration commands
static-group		Configures static oif for a multicast forwarding entry
static-oif		Configures static oif for a multicast forwarding entry
<i>group</i>		Multicast group IP address
source	(Optional)	Configures source address for IGMPv3 (S,G) Channel
<i>source</i>	(Optional)	Source IP address
route-map		Static group policy
<i>route-map-name</i>		route-map name

Command Mode

- /exec/configure/if-igp

ip igmp suppress v3-gsq

[no] ip igmp suppress v3-gsq

Syntax Description

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

Syntax Description		
	no	Negate a command or set its defaults
	ip	Configure IP features
	igmp	IGMP related events
	syslog-threshold	IGMP table syslog threshold
	<i>percentage</i>	Percentage

Command Mode

- /exec/configure

ip igmp version

{ { no ip igmp version [<version>] } | { ip igmp version <version> } }

Syntax Description

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP interface configuration commands
version	Configures IGMP version number for interface
<i>version</i>	(Optional) Version number value

Command Mode

- /exec/configure/if-igp

ip load-sharing address

[no] ip load-sharing address { source-destination [port source-destination2 | gre | gre-outer] | destination port2 destination2 | source } { [rotate <rotate>] | [concatenation] } + [universal-id <random-seed>] | no ip load-sharing address

Syntax Description

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
load-sharing	ECMP load-sharing
address	Configure source/destination addresses, port numbers and hash
source-destination	Use both source and destination values for address
port	(Optional) Use source-destination value for port
gre	(Optional) Use source-destination value for gre-key
gre-outer	(Optional) Use outer IPv4 header fields for GRE tunnel hashing
source-destination2	(Optional) Use both source and destination values for port
destination	Use destination address
port2	Use destination value for port
destination2	Use destination port
source	Use source address
rotate	(Optional) Offset to be used in the hash
<i>rotate</i>	(Optional) Value used for offset, default value is 32
concatenation	(Optional) Enable/Disable concatenation
universal-id	(Optional) Universal-id to randomize hash functions for load-balance
<i>random-seed</i>	(Optional) Value used to randomize hash

Command Mode

- /exec/configure

ip load-sharing per-packet

ip load-sharing per-packet | no ip load-sharing [per-packet]

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
load-sharing		Style of load sharing
per-packet		Enable per-packet load balancing on interface

Command Mode

- /exec/configure/if-igp

ip local-proxy-arp

{ ip local-proxy-arp | no ip local-proxy-arp }

Syntax Description

Syntax Description		
	no	Negate a command or set its defaults
	ip	Configure IP features
	local-proxy-arp	Configure local proxy ARP

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

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
local		Configure local PBR feature
policy		Configure PBR feature
route-map		Route-map for PBR
<i>route-map-name</i>		Route-map name
<i>route-map-name</i>	(Optional)	Route-map name
<i>route-map-name</i>	(Optional)	Known route-map name

Command Mode

- /exec/configure /exec/configure/vrf

ip mroute

```
[no] ip mroute { <ip-addr> <ip-mask> | <ip-prefix> } { { <next-hop> | <nh-prefix> } | <interface> } [ <pref> ] [ vrf { <vrf-name> | <vrf-known-name> } ]
```

Syntax Description

Syntax Description		
<i>no</i>	(Optional)	Negate a command or set its defaults
<i>ip</i>		Configure IP features
<i>mroute</i>		Configure multicast RPF static route
<i>ip-addr</i>		IP prefix in format i.i.i.i
<i>ip-mask</i>		IP network mask in format m.m.m.m
<i>ip-prefix</i>		IP prefix and network mask length in format x.x.x.x/m
<i>next-hop</i>		IP next-hop address in format i.i.i.i
<i>nh-prefix</i>		IP next-hop prefix in format i.i.i.i/m
<i>interface</i>		Interface for interface static multicast routes
<i>pref</i>	(Optional)	Route preference
<i>vrf</i>	(Optional)	Display per-VRF information
<i>vrf-name</i>	(Optional)	VRF name
<i>vrf-known-name</i>	(Optional)	Known VRF name

Command Mode

- /exec/configure /exec/configure/vrf

ip msdp description

ip msdp description <peer-address> <text> | no ip msdp description <peer-address> [<text>]

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
msdp		MSDP global configuration commands
description		Configure MSDP description for peer
<i>peer-address</i>		IP address of MSDP peer
<i>text</i>		Text description

Command Mode

- /exec/configure /exec/configure/vrf

ip msdp event-history cli

[no] ip msdp event-history cli { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	Configure IP features	
msdp	MSDP global configuration commands	
event-history	Configure event-history buffer	
cli	CLI logs for MSDP	
size	Configure size	
<i>size_in_text</i>	Buffer size	
<i>size_in_kbytes</i>	Size in kbytes	

Command Mode

- /exec/configure

ip msdp event-history events

[no] ip msdp event-history events { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	Configure IP features	
msdp	MSDP global configuration commands	
event-history	Configure event-history buffer	
events	Peer events for MSDP	
size	Configure size	
<i>size_in_text</i>	Buffer size	
<i>size_in_kbytes</i>	Size in kbytes	

Command Mode

- /exec/configure

ip msdp event-history msdp-internal

[no] ip msdp event-history msdp-internal { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	Configure IP features	
msdp	MSDP global configuration commands	
event-history	Configure event-history buffer	
msdp-internal	Internal logs for MSDP	
size	Configure size	
<i>size_in_text</i>	Buffer size	
<i>size_in_kbytes</i>	Size in kbytes	

Command Mode

- /exec/configure

ip msdp event-history routes

[no] ip msdp event-history routes { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	Configure IP features	
msdp	MSDP global configuration commands	
event-history	Configure event-history buffer	
routes	Route logs for MSDP	
size	Configure size	
<i>size_in_text</i>	Buffer size	
<i>size_in_kbytes</i>	Size in kbytes	

Command Mode

- /exec/configure

ip msdp event-history tcp

```
[no] ip msdp event-history tcp { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	Configure IP features	
msdp	MSDP global configuration commands	
event-history	Configure event-history buffer	
tcp	TCP logs for MSDP	
size	Configure size	
<i>size_in_text</i>	Buffer size	
<i>size_in_kbytes</i>	Size in kbytes	

Command Mode

- /exec/configure

ip msdp flush-routes

[no] ip msdp flush-routes

Syntax Description

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

Syntax Description		
no	(Optional)	Negate a command or set its defaults
ip		Configure IP features
msdp		MSDP global configuration commands
group-limit		Limit the number of groups per source
<i>limit</i>		Limit on number of groups
source		Sources to limit groups to
<i>sprefix</i>		Prefix to match sources against

Command Mode

- /exec/configure /exec/configure/vrf

ip msdp keepalive

ip msdp keepalive <peer-address> <interval> <timeout> | no ip msdp keepalive <peer-address> [<interval> <timeout>]

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
msdp		MSDP global configuration commands
keepalive		Configure MSDP keepalive parameters for peer
<i>peer-address</i>		IP address of MSDP peer
<i>interval</i>		Keepalive interval in seconds
<i>timeout</i>		Keepalive timeout in seconds

Command Mode

- /exec/configure /exec/configure/vrf

ip msdp mesh-group

ip msdp mesh-group <peer-address> <name> | no ip msdp mesh-group <peer-address> [<name>]

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
msdp		MSDP global configuration commands
mesh-group		Configure member of mesh-group
<i>name</i>		Name of mesh-group
<i>peer-address</i>		IP address of MSDP peer in mesh-group

Command Mode

- /exec/configure /exec/configure/vrf

ip msdp no-sa-data

[no] ip msdp no-sa-data

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
ip	Configure IP features
msdp	MSDP global configuration commands
no-sa-data	Don't send SA-encapsulated data

Command Mode

- */exec/configure /exec/configure/vrf*

ip msdp originator-id

ip msdp originator-id <interface> | no ip msdp originator-id [<interface>]

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
msdp		MSDP global configuration commands
originator-id		Configure alternative router-id for MSDP
<i>interface</i>		Use IP address of interface for originator-id

Command Mode

- /exec/configure /exec/configure/vrf

ip msdp password

ip msdp password <peer-address> <password> | no ip msdp password <peer-address> [<password>]

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	ip	Configure IP features
	msdp	MSDP global configuration commands
	password	Configure MD5 authentication password
	<i>peer-address</i>	IP address of MSDP peer
	<i>password</i>	MD5 password

Command Mode

- /exec/configure /exec/configure/vrf

ip msdp peer connect-source

```
{ { ip msdp peer <peer-address> connect-source <interface> [ remote-as <asn> ] } | { no ip msdp peer <peer-address> [ connect-source <interface> ] [ remote-as <asn> ] } }
```

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	ip	Configure IP features
	msdp	MSDP global configuration commands
	peer	Configure MSDP peer
	<i>peer-address</i>	IP address of MSDP peer
	connect-source	Configure local IP address for TCP connection
	<i>interface</i>	Use IP address of interface for peer address
	remote-as	(Optional) Configure remote Autonomous System Number
	<i>asn</i>	(Optional) AS number

Command Mode

- /exec/configure /exec/configure/vrf

ip msdp reconnect-interval

ip msdp reconnect-interval <interval> | no ip msdp reconnect-interval [<interval>]

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
msdp		MSDP global configuration commands
reconnect-interval		Configure connection reconnect interval
<i>interval</i>		Interval in seconds

Command Mode

- /exec/configure /exec/configure/vrf

ip msdp redistribute

[no] ip msdp redistribute [route-map <route-map-name> | prefix-list <prefix-list-name>]

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
ip		Configure IP features
msdp		MSDP global configuration commands
redistribute		Configure SA policy for all MSDP peer
route-map	(Optional)	route-map policy
<i>route-map-name</i>	(Optional)	route-map policy name
prefix-list	(Optional)	Prefix list policy
<i>prefix-list-name</i>	(Optional)	prefix-list name

Command Mode

- /exec/configure /exec/configure/vrf

ip msdp sa-interval

ip msdp sa-interval <interval> | no ip msdp sa-interval [<interval>]

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
msdp		MSDP global configuration commands
sa-interval		Configure Source-Active message transmission interval
<i>interval</i>		Interval in seconds

Command Mode

- /exec/configure /exec/configure/vrf

ip msdp sa-limit

ip msdp sa-limit <peer-address> <limit> | no ip msdp sa-limit <peer-address> [<limit>]

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
msdp		MSDP global configuration commands
sa-limit		Configure maximum (S,G) entries allowed
<i>limit</i>		Number of (S,G) entries
<i>peer-address</i>		IP address of MSDP peer in mesh-group

Command Mode

- /exec/configure /exec/configure/vrf

ip msdp sa-policy in

```
[no] ip msdp sa-policy <peer-address> { <route-map-name> | prefix-list <prefix-list-name> | <rtr_pol_name> } in
```

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	Configure IP features	
msdp	MSDP global configuration commands	
sa-policy	Configure SA policy for MSDP peer	
prefix-list	Prefix list policy	
in	Input policy	
<i>peer-address</i>	IP address of MSDP peer for SA policy	
<i>route-map-name</i>	route-map policy name	
<i>prefix-list-name</i>	prefix-list name	
<i>rtr_pol_name</i>	An existing routing-rules policy	

Command Mode

- /exec/configure /exec/configure/vrf

ip msdp sa-policy out

```
[no] ip msdp sa-policy <peer-address> { <route-map-name> | prefix-list <prefix-list-name> | <rtr_pol_name> } out
```

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
ip		Configure IP features
msdp		MSDP global configuration commands
sa-policy		Configure SA policy for MSDP peer
prefix-list		Prefix list policy
out		Output policy
<i>peer-address</i>		IP address of MSDP peer for SA policy
<i>route-map-name</i>		route-map policy name
<i>prefix-list-name</i>		prefix-list name
<i>rtr_pol_name</i>		An existing routing-rules policy

Command Mode

- /exec/configure /exec/configure/vrf

ip msdp shutdown

ip msdp shutdown <peer-address> | no ip msdp shutdown <peer-address>

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
msdp		MSDP global configuration commands
shutdown		Administratively shut down peer
<i>peer-address</i>		IP address of MSDP peer

Command Mode

- /exec/configure /exec/configure/vrf

ip mtu eigrp

{ { { ip | ipv6 } mtu eigrp <eigrp-ptag> <mtu> } | { no { ip | ipv6 } mtu eigrp <eigrp-ptag> [<mtu>] } }

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	ip	Configure IP features
	ipv6	Configure IPv6 features
	mtu	Set Max Packet Size to be used by EIGRP
	eigrp	EIGRP interface configuration commands
	<i>eigrp-ptag</i>	Process tag
	<i>mtu</i>	Interface MTU
	<i>eigrp-ptag</i>	

Command Mode

- /exec/configure/if-igp

ip 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

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
name-server	Specify nameserver address
<i>ipv4_0</i>	Enter an IPv4 address
<i>ipv4_2</i>	(Optional) Enter an IPv4 address
<i>ipv4_4</i>	(Optional) Enter an IPv4 address
<i>ipv4_6</i>	(Optional) Enter an IPv4 address
<i>ipv4_8</i>	(Optional) Enter an IPv4 address
<i>ipv4_10</i>	(Optional) Enter an IPv4 address
<i>ipv4_12</i>	Enter an IPv4 address
use-vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>ipv4_14</i>	Enter an IPv4 address
<i>ipv4_16</i>	(Optional) Enter an IPv4 address
<i>ipv4_18</i>	Enter an IPv4 address
<i>ipv4_20</i>	(Optional) Enter an IPv4 address
<i>ipv4_22</i>	(Optional) Enter an IPv4 address
<i>ipv4_24</i>	Enter an IPv4 address

<i>ipv4_26</i>	(Optional) Enter an IPv4 address
<i>ipv4_28</i>	(Optional) Enter an IPv4 address
<i>ipv4_30</i>	(Optional) Enter an IPv4 address
<i>ipv4_32</i>	Enter an IPv4 address
<i>ipv4_34</i>	(Optional) Enter an IPv4 address
<i>ipv4_36</i>	(Optional) Enter an IPv4 address
<i>ipv4_38</i>	(Optional) Enter an IPv4 address
<i>ipv4_40</i>	(Optional) Enter an IPv4 address
<i>ipv4_42</i>	Enter an IPv4 address
<i>ipv4_44</i>	(Optional) Enter an IPv4 address
<i>ipv4_46</i>	(Optional) Enter an IPv4 address
<i>ipv4_48</i>	(Optional) Enter an IPv4 address
<i>ipv4_50</i>	(Optional) Enter an IPv4 address
<i>ipv4_52</i>	(Optional) Enter an IPv4 address

Command Mode

- /exec/configure /exec/configure/vrf

ip nat inside

[no] ip nat { inside | outside }

Syntax Description

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 ] ] [ add-route ] } | { static { tcp | udp } <insideLocalIP> <insideLocalPort>
<insideGlobalIP> <insideGlobalPort> [ vrf <vrf-name> [ match-in-vrf ] ] [ group <group-id> [ dynamic ] ] [
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

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
dynamic	(Optional) Dynamic twice NAT group
<i>insideLocalIP</i>	Inside local IP address
<i>insideLocalPort</i>	Local UDP/TCP port
<i>insideGlobalIP</i>	Inside global IP address
<i>insideGlobalPort</i>	Global UDP/TCP port
group	(Optional) Specify group for the twice NAT
<i>group-id</i>	(Optional) Group ID for the twice NAT
<i>acl-name</i>	Access-list-name
<i>pool-name</i>	Pool name for global addresses

add-route	(Optional) Add a static route for outside local address
<i>vrf-name</i>	(Optional) vrf name
<i>globalAddrInterface</i>	interface type and number in module/slot format
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 ] ] [ add-route ] | static { tcp | udp } <outsideGlobalIP> <outsideGlobalPort>
<outsideLocalIP> <outsideLocalPort> [ vrf <vrf-name> [ match-in-vrf ] ] [ group <group-id> [ dynamic ] ]
[ add-route ] | list <acl-name> pool <pool-name> [ vrf <vrf-name> [ match-in-vrf ] ] [ group <group-id>
dynamic ] } [ add-route ]
```

Syntax Description

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
<i>outsideGlobalIP</i>	Outside global IP address
<i>outsideGlobalPort</i>	Outside Global UDP/TCP port
<i>outsideLocalIP</i>	Outside local IP address
<i>outsideLocalPort</i>	Outside Local UDP/TCP port
group	(Optional) Specify group for the twice NAT
dynamic	(Optional) Dynamic twice NAT group
<i>group-id</i>	(Optional) Group ID for the twice NAT
<i>acl-name</i>	Access-list-name
<i>vrf-name</i>	(Optional) vrf name
<i>pool-name</i>	Pool name for global addresses

add-route (Optional) Add a static route for outside local address

Command Mode

- /exec/configure

ip nat pool netmask

```
ip nat pool <pool-name> { netmask <netmask> | prefix-length <prefix-length> } [ no-alias ]
```

Syntax Description

Syntax Description

ip	Configure IP features
nat	NAT configuration commands
pool	Define pool of addresses
netmask	Specify the network mask
prefix-length	Specify the prefix length
no-alias	(Optional) Do not create alias for these pool addresses
<i>pool-name</i>	Pool name
<i>netmask</i>	Network mask
<i>prefix-length</i>	Prefix length

Command Mode

- /exec/configure

ip nat pool netmask

```
ip nat pool <pool-name> <start-ip> <end-ip> { netmask <netmask> | prefix-length <prefix-length> } [ no-alias ] | no ip nat pool <pool-name>
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
nat		NAT configuration commands
pool		Define pool of addresses
netmask		Specify the network mask
prefix-length		Specify the prefix length
no-alias	(Optional)	Do not create alias for these pool addresses
<i>pool-name</i>		Pool name
<i>start-ip</i>		Start IP address
<i>end-ip</i>		End IP address
<i>netmask</i>		Network mask
<i>prefix-length</i>		Prefix length

Command Mode

- /exec/configure

ip nat translation

[no] ip nat translation { tcp-timeout | udp-timeout | timeout } <timeout>

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
ip		Configure IP features
nat		NAT configuration commands
translation		NAT translation entry configuration
tcp-timeout		Specify timeout for NAT TCP flows
udp-timeout		Specify timeout for NAT UDP flows
timeout		Specify timeout for dynamic NAT flows
<i>timeout</i>		Timeout in seconds

Command Mode

- /exec/configure

ip nat translation max-entries

ip nat translation max-entries [all-host] <max> | no ip nat translation max-entries [all-host]

Syntax Description

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 nat translation sampling-timeout

[no] ip nat translation sampling-timeout <timeout>

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	Configure IP features	
nat	NAT configuration commands	
translation	NAT translation entry configuration	
sampling-timeout	Specify timeout after which the checking for activity is done	
<i>timeout</i>	Timeout in seconds (max: 2days)	

Command Mode

- /exec/configure

ip next-hop-self eigrp

[no] { ip | ipv6 } next-hop-self eigrp <eigrp-ptag>

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	Configure IP features	
ipv6	Configure IPv6 features	
next-hop-self	Configures IP-EIGRP next-hop-self	
eigrp	EIGRP interface configuration commands	
<i>eigrp-ptag</i>	Process tag	

Command Mode

- /exec/configure/if-igp

ip offset-list eigrp

```
[no] { ip | ipv6 } offset-list eigrp <eigrp-ptag> { { route-map <map> } | { prefix-list <list> } } { in | out } <offset>
```

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	Configure IP features	
ipv6	Configure IPv6 features	
offset-list	Add or subtract offset from EIGRP metrics	
eigrp	EIGRP interface configuration commands	
<i>eigrp-ptag</i>	Process tag	
route-map	Use a route-map for offset-list selection	
<i>map</i>	Route-map name	
prefix-list	Use a prefix-list for offset-list selection	
<i>list</i>	Reference to prefix-list name	
in	Perform offset on incoming updates	
out	Perform offset on outgoing updates	
<i>offset</i>	Offset	

Command Mode

- /exec/configure/if-igp

ip ospf advertise-subnet

[no] ip ospf advertise-subnet

Syntax Description

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

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

Syntax Description		
no	(Optional)	Negate a command or set its defaults
ip		Configure IP features
ospf		OSPF configuration commands
authentication		Authentication on the interface
message-digest	(Optional)	Use message-digest authentication
null	(Optional)	Use null(disable) authentication

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config

ip ospf authentication key-chain

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

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
ospf		OSPF configuration commands
authentication		Authentication on the interface
key-chain		Authentication password key-chain
<i>keychain</i>		Key-chain name

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config

ip ospf bfd

[no] ip ospf bfd [disable]

Syntax Description

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

Syntax Description	no	Negate a command or set its defaults
	ip	Configure IP features
	ospf	OSPF configuration commands
	cost	Cost associated with interface
	<i>cost</i>	Cost value

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config

ip ospf dead-interval

{ ip ospf dead-interval <interval> } | { no ip ospf dead-interval [<interval>] }

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	ip	Configure IP features
	ospf	OSPF configuration commands
	dead-interval	Dead interval
	<i>interval</i>	(seconds)

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config

ip ospf flood-bw-percentage

[no] ip ospf flood-bw-percentage <percentage>

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
ip		Configure IP features
ospf		OSPF configuration commands
flood-bw-percentage		Percentage of bandwidth used for flooding
<i>percentage</i>		Negate a command or set its defaults

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config

ip ospf hello-interval

{ ip ospf hello-interval <interval> } | { no ip ospf hello-interval [<interval>] }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
ospf		OSPF configuration commands
hello-interval		Hello interval
<i>interval</i>		(seconds)

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config

ip ospf message-digest-key md5

```
{ { ip ospf message-digest-key <keyid> md5 <key> } | { no ip ospf message-digest-key <keyid> [ md5 <key> ] } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
ospf		OSPF configuration commands
message-digest-key		Message digest authentication password (key)
<i>keyid</i>		Key ID
md5		Use MD5 algorithm
<i>key</i>		The OSPF password (key)

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config

ip ospf mtu-ignore

[no] ip ospf mtu-ignore

Syntax Description

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

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

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

Syntax Description		
	default	(Optional) Undo a command
	no	(Optional) Negate a command or set its defaults
	ip	Configure IP features
	ospf	OSPF configuration commands
	passive-interface	Suppress routing updates on the interface

Command Mode

- /exec/configure/if-broadcast /exec/configure/if-p2p /exec/configure/if-mgmt-config

ip ospf priority

{ ip ospf priority <prio> } | { no ip ospf priority [<prio>] }

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	ip	Configure IP features
	ospf	OSPF configuration commands
	priority	Router priority
	<i>prio</i>	Router priority

Command Mode

- /exec/configure/if-igmp /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

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
ospf		OSPF configuration commands
retransmit-interval		Packet retransmission interval
<i>interval</i>		(seconds)

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config

ip ospf shutdown

[no] ip ospf shutdown

Syntax Description

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

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
ospf		OSPF configuration commands
transmit-delay		Packet transmission delay
<i>delay</i>		(seconds)

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config

ip passive-interface eigrp

[default | no] { ip | ipv6 } passive-interface eigrp <eigrp-ptag>

Syntax Description

Syntax Description		
default	(Optional)	Undo a command
no	(Optional)	Negate a command or set its defaults
ip		Configure IP features
ipv6		Configure IPv6 features
passive-interface		Suppress routing updates on an interface
eigrp		EIGRP interface configuration commands
<i>eigrp-ptag</i>		Process tag

Command Mode

- /exec/configure/if-igp

ip pim anycast-rp

[no] ip pim anycast-rp <anycast-rp> <rp-addr>

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
ip		Configure IP features
pim		PIM global configuration commands
anycast-rp		Configure an RP in an Anycast-RP set (using PIM)
<i>anycast-rp</i>		Address for the Anycast-RP address
<i>rp-addr</i>		Address of RP in the Anycast-RP set

Command Mode

- /exec/configure /exec/configure/vrf

ip pim assert-rate-limit

```
{ { ip pim assert-rate-limit <rate> } | { no ip pim assert-rate-limit [ <rate> ] } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
pim		PIM global configuration commands
assert-rate-limit		Rate limit for PIM Asserts
<i>rate</i>		Packets per second

Command Mode

- /exec/configure /exec/configure/vrf

ip pim auto-enable

{ { no ip pim auto-enable } | { ip pim auto-enable } }

Syntax Description

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

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

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
pim		PIM global configuration commands
auto-rp		Auto-RP protocol RP-distribution configuration
mapping-agent-policy		Specify policy for filtering Mapping Agent messages
<i>route-map-name</i>		A route-map name
<i>rtr_pol_name</i>		An existing routing-rules policy

Command Mode

- /exec/configure /exec/configure/vrf

ip pim auto-rp mapping-agent send-rp-discovery

```
{ { ip pim { { auto-rp mapping-agent } | send-rp-discovery } <interface> [ scope <ttl> ] } | { no ip pim { { auto-rp mapping-agent } | send-rp-discovery } [ <interface> ] [ scope <ttl> ] } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
pim		PIM global configuration commands
auto-rp		Auto-RP protocol RP-distribution configuration
send-rp-discovery		Configures router to send Auto-RP Discovery messages
mapping-agent		Configures router as an Auto-RP RP-mapping agent
<i>interface</i>		Use IP address of interface for Auto-RP Announce messages
scope		(Optional) Configure the scope of Auto-RP Discovery messages
<i>ttl</i>		(Optional) TTL value for scope

Command Mode

- /exec/configure /exec/configure/vrf

ip pim auto-rp rp-candidate-policy

{ ip pim auto-rp rp-candidate-policy { <route-map-name> | <rtr_pol_name> } | no ip pim auto-rp rp-candidate-policy [<route-map-name> | <rtr_pol_name>] }

Syntax Description

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
auto-rp	Auto-RP protocol RP-distribution configuration
rp-candidate-policy	Specify policy for filtering RP candidate messages
<i>route-map-name</i>	A route-map name
<i>rtr_pol_name</i>	An existing routing-rules policy

Command Mode

- /exec/configure /exec/configure/vrf

ip pim auto-rp rp-candidate send-rp-announce group-list route-map prefix-list

```
{ { ip pim { auto-rp rp-candidate | send-rp-announce } { <interface> | <ipaddr> } { group-list <prefix> | route-map <route-map-name> | prefix-list <prefix-list-name> } { [ scope <ttl> ] | [ interval <interval> ] | [ bidir ] } + } | { no ip pim { { auto-rp rp-candidate } | send-rp-announce } [ <interface> | <ipaddr> ] [ group-list <prefix> | route-map <route-map-name> | prefix-list <prefix-list-name> ] { [ scope <ttl> ] | [ interval <interval> ] | [ bidir ] } } }
```

Syntax Description

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
auto-rp	Auto-RP protocol RP-distribution configuration
send-rp-announce	Configures router to send Auto-RP Announce messages
rp-candidate	Configures router to be an Auto-RP candidate RP
<i>interface</i>	Use IP address of interface for Auto-RP Announce messages
<i>ipaddr</i>	IP address of RP for group
group-list	Group range list
<i>prefix</i>	Prefix of group range
route-map	Group range policy for Auto-RP Candidate RP
<i>route-map-name</i>	route-map name
prefix-list	Prefix List policy for Auto-RP Candidate RP
<i>prefix-list-name</i>	prefix-list name
scope	(Optional) Configure the scope of Auto-RP Announce messages
<i>ttl</i>	(Optional) TTL value for scope
interval	(Optional) Auto-RP Announce message transmission interval
<i>interval</i>	(Optional) Interval in seconds
bidir	(Optional) Group range advertised in PIM bidirectional mode

Command Mode

- /exec/configure /exec/configure/vrf

ip pim bfd-instance

[no] ip pim bfd-instance [disable]

Syntax Description

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

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

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	Configure IP features	
pim	PIM global configuration commands	
bidir-rp-limit	Configures maximum Bidir RPs for IPv4 PIM in this VRF	
<i>limit</i>	Set limit for Bidir RPs permitted in IPv4 PIM	

Command Mode

- /exec/configure /exec/configure/vrf

ip pim border

[no] ip pim border

Syntax Description

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

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
bsr	(Optional) Bootstrap protocol RP-distribution configuration
bsr-candidate	Configure router as a Bootstrap Router candidate
<i>interface</i>	Use IP address of interface for Bootstrap messages
hash-len	(Optional) Hash mask length used in Bootstrap messages
<i>hash-len</i>	(Optional) Hash mask length value
priority	(Optional) BSR priority used in Bootstrap messages
<i>priority</i>	(Optional) BSR priority value
interval	(Optional) Bootstrap message transmission interval
<i>interval</i>	(Optional) Interval in seconds

Command Mode

- /exec/configure /exec/configure/vrf

ip pim bsr bsr-policy

```
{ ip pim bsr bsr-policy { <route-map-name> | <rtr_pol_name> } | no ip pim bsr bsr-policy [ <route-map-name> | <rtr_pol_name> ] }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
pim		PIM global configuration commands
bsr		Bootstrap protocol RP-distribution configuration
bsr-policy		Specify policy for filtering BSR messages
<i>route-map-name</i>		A route-map name
<i>rtr_pol_name</i>		An existing routing-rules policy

Command Mode

- /exec/configure /exec/configure/vrf

ip pim bsr listen

{ ip pim bsr { listen | forward } + } | { no ip pim bsr [{ listen | forward } +] }

Syntax Description

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

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
pim		PIM global configuration commands
bsr		Bootstrap protocol RP-distribution configuration
rp-candidate-policy		Specify policy for filtering RP candidate messages
<i>route-map-name</i>		A route-map name
<i>rtr_pol_name</i>		An existing routing-rules policy

Command Mode

- /exec/configure /exec/configure/vrf

ip pim cpu-punt dr-only

{ { no ip pim cpu-punt dr-only } | { ip pim cpu-punt dr-only } }

Syntax Description

Syntax Description		
no	Negate a command or set its defaults	
ip	Configure IP features	
pim	PIM global configuration commands	
cpu-punt	Disable PIM NON-DR copy-to-cpu on RPF check failure	
dr-only	Disable PIM NON-DR copy-to-cpu on RPF check failure	

Command Mode

- /exec/configure /exec/configure/vrf

ip pim df-offer-burst-interval

[no] ip pim df-offer-burst-interval <burst-interval>

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	Configure IP features	
pim	PIM global configuration commands	
df-offer-burst-interval	Interval between DF offer bursts	
<i>burst-interval</i>	Interval in milliseconds	

Command Mode

- /exec/configure /exec/configure/vrf

ip pim dr-delay

```
{ { ip pim dr-delay <delay> } | { no ip pim dr-delay [ <delay> ] } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
pim		PIM interface configuration commands
dr-delay		Configures delay for PIM DR election on interface
<i>delay</i>		Delay value

Command Mode

- /exec/configure/if-igp

ip pim dr-priority

```
{ { ip pim dr-priority <priority> } | { no ip pim dr-priority [ <priority> ] } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
pim		PIM interface configuration commands
dr-priority		Configures priority for PIM DR election on interface
<i>priority</i>		Priority value

Command Mode

- /exec/configure/if-igp

ip pim event-history assert-receive

```
[no] ip pim event-history assert-receive { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	Configure IP features	
pim	PIM global configuration commands	
event-history	Configure event-history buffer	
assert-receive	Assert receive events for PIM	
size	Configure size	
<i>size_in_text</i>	Buffer size	
<i>size_in_kbytes</i>	Size in kbytes	

Command Mode

- /exec/configure

ip pim event-history bidir

[no] ip pim event-history bidir { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	Configure IP features	
pim	PIM global configuration commands	
event-history	Configure event-history buffer	
bidir	Bidir events for PIM	
size	Configure size	
<i>size_in_text</i>	Buffer size	
<i>size_in_kbytes</i>	Size in kbytes	

Command Mode

- /exec/configure

ip pim event-history cli

```
[no] ip pim event-history cli { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	Configure IP features	
pim	PIM global configuration commands	
event-history	Configure event-history buffer	
cli	CLI events for PIM	
size	Configure size	
<i>size_in_text</i>	Buffer size	
<i>size_in_kbytes</i>	Size in kbytes	

Command Mode

- /exec/configure

ip pim event-history hello

```
[no] ip pim event-history hello { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	Configure IP features	
pim	PIM global configuration commands	
event-history	Configure event-history buffer	
hello	Hello events for PIM	
size	Configure size	
<i>size_in_text</i>	Buffer size	
<i>size_in_kbytes</i>	Size in kbytes	

Command Mode

- /exec/configure

ip pim event-history join-prune-summary

```
[no] ip pim event-history join-prune-summary { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	Configure IP features	
pim	PIM global configuration commands	
event-history	Configure event-history buffer	
join-prune-summary	JoinPrune-Summary for PIM	
size	Configure size	
<i>size_in_text</i>	Buffer size	
<i>size_in_kbytes</i>	Size in kbytes	

Command Mode

- /exec/configure

ip pim event-history join-prune

[no] ip pim event-history join-prune { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	Configure IP features	
pim	PIM global configuration commands	
event-history	Configure event-history buffer	
join-prune	Join Prune events for PIM	
size	Configure size	
<i>size_in_text</i>	Buffer size	
<i>size_in_kbytes</i>	Size in kbytes	

Command Mode

- /exec/configure

ip pim event-history mvpn

[no] ip pim event-history mvpn { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	Configure IP features	
pim	Configure PIM event history	
event-history	Configure event-history buffer	
mvpn	MVPN events for PIM	
size	Configure size	
<i>size_in_text</i>	Buffer size	
<i>size_in_kbytes</i>	Size in kbytes	

Command Mode

- /exec/configure

ip pim event-history null-register

[no] ip pim event-history null-register { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	Configure IP features	
pim	PIM global configuration commands	
event-history	Configure event-history buffer	
null-register	Null register events for PIM	
size	Configure size	
<i>size_in_text</i>	Buffer size	
<i>size_in_kbytes</i>	Size in kbytes	

Command Mode

- /exec/configure

ip pim event-history packet

```
[no] ip pim event-history packet { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	Configure IP features	
pim	PIM global configuration commands	
event-history	Configure event-history buffer	
packet	Packet events for PIM	
size	Configure size	
<i>size_in_text</i>	Buffer size	
<i>size_in_kbytes</i>	Size in kbytes	

Command Mode

- /exec/configure

ip pim event-history pim-internal

[no] ip pim event-history pim-internal { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	Configure IP features	
pim	PIM global configuration commands	
event-history	Configure event-history buffer	
pim-internal	Internal events for PIM	
size	Configure size	
<i>size_in_text</i>	Buffer size	
<i>size_in_kbytes</i>	Size in kbytes	

Command Mode

- /exec/configure

ip pim event-history rp

```
[no] ip pim event-history rp { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	Configure IP features	
pim	PIM global configuration commands	
event-history	Configure event-history buffer	
rp	RP events for PIM	
size	Configure size	
<i>size_in_text</i>	Buffer size	
<i>size_in_kbytes</i>	Size in kbytes	

Command Mode

- /exec/configure

ip pim event-history vpc

[no] ip pim event-history vpc { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	Configure IP features	
pim	Configure PIM event history	
event-history	Configure event-history buffer	
vpc	vPC events for PIM	
size	Configure size	
<i>size_in_text</i>	Buffer size	
<i>size_in_kbytes</i>	Size in kbytes	

Command Mode

- /exec/configure

ip pim event-history vrf

```
[no] ip pim event-history vrf { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	Configure IP features	
pim	PIM global configuration commands	
event-history	Configure event-history buffer	
vrf	VRF events for PIM	
size	Configure size	
<i>size_in_text</i>	Buffer size	
<i>size_in_kbytes</i>	Size in kbytes	

Command Mode

- /exec/configure

ip pim file-debug

[no] ip pim file-debug

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
file-debug	Collect all debugs to a file

Command Mode

- /exec/configure

ip pim flush-routes

[no] ip pim flush-routes

Syntax Description

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

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	Configure IP features	
pim	PIM global configuration commands	
use-shared-tree-only	Use (*,G) only state, no source state is created	
spt-threshold	Source-tree switching threshold	
infinity	Never switch to source-tree	
group-list	Specify group ranges through policy	
<i>route-map-name</i>	route-map name	
prefix-list	Prefix List policy	
<i>prefix-list-name</i>	prefix-list name	

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

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
pim		PIM interface configuration commands
hello-authentication		Add AH header option to Hellos
ah-md5		Use MD5 HMAC
<i>auth-key</i>		MD5 authentication key

Command Mode

- /exec/configure/if-igp

ip pim hello-interval

{ { ip pim hello-interval <interval> } | { no ip pim hello-interval [<interval>] } }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
pim		PIM interface configuration commands
hello-interval		Configures the Hello interval for interface
<i>interval</i>		Interval in milliseconds

Command Mode

- /exec/configure/if-igp

ip pim isolate

[no] ip pim isolate

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
isolate	Isolate this router from PIM perspective

Command Mode

- /exec/configure

ip pim jp-delay

```
{ { ip pim jp-delay <delay> } | { no ip pim jp-delay [ <delay> ] } }
```

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	ip	Configure IP features
	pim	PIM global configuration commands
	jp-delay	Join-Prune message inter-packet delay
	<i>delay</i>	Delay value in microseconds

Command Mode

- /exec/configure /exec/configure/vrf

ip pim jp-interval

[no] ip pim jp-interval <interval>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	PIM interface configuration commands
jp-interval	Join-Prune interval used between peers
<i>interval</i>	Interval in seconds

Command Mode

- /exec/configure/if-igp

ip pim jp-policy

```
{ ip pim jp-policy { <route-map-name> | prefix-list <prefix-list-name> } [ in | out ] | no ip pim jp-policy { <route-map-name> | prefix-list <prefix-list-name> } [ in | out ] }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
pim		PIM interface configuration commands
jp-policy		Specify policy for receiving Join-Prune messages
<i>route-map-name</i>		route-map name
prefix-list		Prefix List policy for static RP
<i>prefix-list-name</i>		prefix-list name
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

Syntax Description		
	no	(Optional) Negate a command or set its defaults
	ip	Configure IP features
	pim	PIM global configuration commands
	log-neighbor-changes	Log up/down PIM neighbor transitions

Command Mode

- /exec/configure /exec/configure/vrf

ip pim mtu

[no] ip pim mtu <size>

Syntax Description

Syntax Description	Description
no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
mtu	MTU for IP PIM packet
size	MTU

Command Mode

- /exec/configure

ip pim mtu

[no] ip pim mtu <size>

Syntax Description

Syntax Description	no (Optional) Negate a command or set its defaults
	ip Configure IP features
	pim PIM global configuration commands
	mtu MTU for IP PIM packet
	size MTU

Command Mode

- /exec/configure

ip pim neighbor-policy prefix-list

```
{ { ip pim neighbor-policy { <route-map-name> | prefix-list <prefix-list-name> } } | { no ip pim neighbor-policy [ <route-map-name> | prefix-list <prefix-list-name> ] } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
pim		PIM interface configuration commands
neighbor-policy		Configures a neighbor policy for filtering adjacencies
<i>route-map-name</i>		route-map name
prefix-list		Prefix List policy for neighbor
<i>prefix-list-name</i>		prefix-list name

Command Mode

- /exec/configure/if-igp

ip pim non-dr flood

{ { no ip pim non-dr flood } | { ip pim non-dr flood } }

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
non-dr	Enable PIM NON-DR flood on vlan
flood	Enable PIM NON-DR flood on vlan

Command Mode

- /exec/configure /exec/configure/vrf

ip pim null-reg-delay

{ { ip pim null-reg-delay <delay> } | { no ip pim null-reg-delay [<delay>] } }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
pim		PIM global configuration commands
null-reg-delay		Null registers inter-batch delay
delay		Delay value in microseconds

Command Mode

- /exec/configure /exec/configure/vrf

ip pim null-reg-routes

```
{ { ip pim null-reg-routes <num> } | { no ip pim null-reg-routes [ <num> ] } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
pim		PIM global configuration commands
null-reg-routes		Null registers number of routes
<i>num</i>		Numerical value

Command Mode

- /exec/configure /exec/configure/vrf

ip pim pre-build-spt

```
{ { ip pim pre-build-spt [ force ] } | { no ip pim pre-build-spt } }
```

Syntax Description

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

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

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
pim		PIM global configuration commands
register-policy		Specify policy for receiving Register messages
<i>route-map-name</i>		A route-map name
prefix-list		Prefix List policy for Registers
<i>prefix-list-name</i>		prefix-list name

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

Syntax Description	no	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-replicate

[no] ip pim register-replicate

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
register-replicate	Enable software replication of decapsulated PIM Register packets

Command Mode

- /exec/configure

ip pim register-source

```
{ { ip pim register-source { <src-interface> } } | { no ip pim register-source [ <src-interface> ] } }
```

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	ip	Configure IP features
	pim	PIM global configuration commands
	register-source	Configure source address for Register messages
	<i>src-interface</i>	Use IP address of this interface for Register messages

Command Mode

- /exec/configure /exec/configure/vrf

ip pim register-until-stop

[no] ip pim register-until-stop

Syntax Description

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

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
rp-address	Configure static RP for group range
<i>rp-address</i>	IP address of router which is RP for group range
group-list	(Optional) Group range for static RP
<i>prefix</i>	(Optional) Group range prefix
route-map	(Optional) Route Map policy for static RP
<i>route-map-name</i>	(Optional) route-map name
prefix-list	(Optional) Prefix List policy for static RP
<i>prefix-list-name</i>	(Optional) prefix-list name
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

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
bsr	(Optional) Bootstrap protocol RP-distribution configuration
rp-candidate	Configure router as a Rendezvous Point (RP) candidate
<i>interface</i>	Use IP address of interface for Candidate-RP messages
group-list	Group range list
<i>prefix</i>	Prefix of group range
route-map	Group range policy for Candidate RP
<i>route-map-name</i>	route-map name
prefix-list	Prefix List policy for Candidate RP
<i>prefix-list-name</i>	prefix-list name
priority	(Optional) RP priority used in Candidate-RP messages
<i>priority</i>	(Optional) RP priority value
interval	(Optional) Bootstrap message transmission interval
<i>interval</i>	(Optional) Interval in seconds
bidir	(Optional) Group range advertised in 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

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
sparse	(Optional) PIM ASM
sg-expiry-timer	Adjust expiry time for PIM ASM (S,G) routes
<i>expiry-time</i>	Expiry timer interval in seconds
infinity	Never expire (S,G) route due to data inactivity
sg-list	(Optional) Specifies route-map for (S,G)s to apply the expiry timer
<i>route-map-name</i>	(Optional) Route-map name
prefix-list	(Optional) Specifies prefix-list for (S,G)s to apply the expiry timer
<i>prefix-list-name</i>	(Optional) prefix-list name

Command Mode

- /exec/configure /exec/configure/vrf

ip pim sparse-mode

ip pim sparse-mode | no ip pim [sparse-mode]

Syntax Description

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

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
ssm	Source Specific Multicast (SSM) groups
range	Configure explicit group ranges
<i>group</i>	List of group range prefixes
route-map	Group range route-map policy for SSM range
<i>route-map-name</i>	A route-map name
prefix-list	Group range prefix-list policy for SSM range
<i>prefix-list-name</i>	A prefix-list name
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

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
pim		PIM global configuration commands
state-limit		Configures State limit
<i>max-states</i>		Maximum (*,G)/(S,G) entries allowed in this VRF
reserved	(Optional)	Configures Reserved limit
<i>route-map-name</i>	(Optional)	Route-map name
<i>max-reserved</i>	(Optional)	Maximum reserved (*,G)/(S,G) entries allowed in this VRF

Command Mode

- /exec/configure /exec/configure/vrf

ip ping source-interface

[no] ip ping source-interface <ifnum> [vrf { <vrf-name> | <vrf-known-name> }]

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
ip		Configure IP features
ping		Configure ping client
source-interface		Configure source interface feature for ping client
<i>ifnum</i>		Source interface
vrf	(Optional)	Configure VRF
<i>vrf-name</i>	(Optional)	VRF name
<i>vrf-known-name</i>	(Optional)	Known VRF name

Command Mode

- /exec/configure

ip policy match router-address

[no] ip policy match router-address

Syntax Description

Syntax Description		
	no	(Optional) Negate a command or set its defaults
	ip	Configure IP features
	policy	Configure PBR feature
	match	Match values
	router-address	Router's IP address

Command Mode

- /exec/configure

ip policy route-map

ip policy route-map <route-map-name> | no ip policy route-map [<route-map-name> | <route-map-name>]

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
policy		Configure PBR feature
route-map		Route-map for PBR
<i>route-map-name</i>		Route-map name
<i>route-map-name</i>	(Optional)	Route-map name
<i>route-map-name</i>	(Optional)	Known route-map name

Command Mode

- /exec/configure/if-igp

ip port-unreachable

[no] ip port-unreachable

Syntax Description

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

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	Configure IP features	
port	Port policy	
access-group	Specify access control for packets	
<i>name</i>	List name	
<i>inout</i>	Traffic direction	

Command Mode

- /exec/configure/if-set-acl-l2

ip prefix-list description

{ ip prefix-list <ipv4-pfl-name> description <line> } | { no ip prefix-list <ipv4-pfl-name> description }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
prefix-list		Build a prefix list
<i>ipv4-pfl-name</i>		Name of prefix-list
<i>ipv4-pfl-name</i>		Known prefix-list name
description		Description of the IP prefix list
<i>line</i>		IP prefix-list description string

Command Mode

- /exec/configure

ip prefix-list permit

```
{ ip prefix-list <ipv4-pfl-name> { permit | deny } <prefix> { [ eq <equal> ] | [ ge <greater> ] [ le <lesser> ]
} [ mask <mask> ] } | { no ip prefix-list { <ipv4-pfl-name> | <ipv4-pfl-name> } [ { permit | deny } <prefix>
{ [ eq <equal> ] | [ ge <greater> ] [ le <lesser> ] } [ mask <mask> ] ] }
```

Syntax Description

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
prefix-list	Build a prefix list
<i>ipv4-pfl-name</i>	Name of prefix-list
<i>ipv4-pfl-name</i>	Name of prefix-list
<i>ipv4-pfl-name</i>	Known prefix-list name
permit	Specify routes to forward
deny	Specify routes to reject
<i>prefix</i>	IP prefix network/length, e.g., 35.0.0.0/8
eq	(Optional) Exact prefix length to be matched
<i>equal</i>	(Optional) Exact prefix length
ge	(Optional) Minimum prefix length to be matched
<i>greater</i>	(Optional) Minimum prefix length
le	(Optional) Maximum prefix length to be matched
<i>lesser</i>	(Optional) Maximum prefix length
mask	(Optional) Explicit match mask
<i>mask</i>	(Optional) Mask to use with the prefix

Command Mode

- /exec/configure

ip prefix-list seq permit

```
{ ip prefix-list <ipv4-pfl-name> seq <seq> { permit | deny } <prefix> { [ eq <equal> ] | [ ge <greater> ] | [ le <lesser> ] } [ mask <mask> ] } | { no ip prefix-list { <ipv4-pfl-name> | <ipv4-pfl-name> } seq <seq> [ { permit | deny } <prefix> { [ eq <equal> ] | [ ge <greater> ] | [ le <lesser> ] } [ mask <mask> ] ] }
```

Syntax Description

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
prefix-list	Build a prefix list
<i>ipv4-pfl-name</i>	Name of prefix-list
<i>ipv4-pfl-name</i>	Name of prefix-list
<i>ipv4-pfl-name</i>	Known prefix-list name
seq	Sequence number of an entry
<i>seq</i>	Sequence number
permit	Specify routes to forward
deny	Specify routes to reject
<i>prefix</i>	IP prefix network/length, e.g., 35.0.0.0/8
eq	(Optional) Exact prefix length to be matched
<i>equal</i>	(Optional) Exact prefix length
ge	(Optional) Minimum prefix length to be matched
<i>greater</i>	(Optional) Minimum prefix length
le	(Optional) Maximum prefix length to be matched
<i>lesser</i>	(Optional) Maximum prefix length
mask	(Optional) Explicit match mask
<i>mask</i>	(Optional) Mask to use with the prefix

Command Mode

- /exec/configure

ip proxy-arp

{ ip proxy-arp | no ip proxy-arp }

Syntax Description

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

Syntax Description		
	no	Negate a command or set its defaults
	ip	Configure IP features
	radius	Radius server
	source-interface	Source interface to be used to reach radius server
	<i>interface</i>	Interface Description

Command Mode

- /exec/configure

ip redirects

ip redirects | no ip redirects

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
redirects		Send ICMP Redirect messages

Command Mode

- /exec/configure/if-igp /exec/configure/if-mgmt-config

ip repopulate internal context array

ip repopulate internal context array

Syntax Description

Syntax Description		
	ip	Display IP information
	repopulate	Repopulate internal data structure
	internal	Commands for internal use
	context	repopulate context related info
	array	arrays which stores context ptrs

Command Mode

- /exec

ip rip authentication key-chain

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

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
rip		RIP configuration commands
authentication		Authentication control
key-chain		Set authentication key-chain
<i>keychain</i>		Name of key-chain

Command Mode

- /exec/configure/if-igp

ip rip authentication mode text

{ ip rip authentication mode { text | md5 } | no ip rip authentication mode [{ text | md5 }] }

Syntax Description

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

Syntax Description		
no		Negate a command or set its defaults
ipv6		Configure IPv6 features
ip		Configure IP features
rip		RIP configuration commands
metric-offset		RIP metric for interface
offset-list		RIP metric for interface
<i>metric</i>		RIP metric value

Command Mode

- /exec/configure/if-igp

ip rip passive-interface

[no] { ipv6 | ip } rip passive-interface

Syntax Description

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

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

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ipv6	Configure IPv6 features	
ip	Configure IP features	
rip	RIP configuration commands	
route-filter	RIP route filtering	
route-map	route-map policy to constrain route filtering	
prefix-list	prefix-list policy to constrain route filtering	
<i>map</i>	Route-map name	
<i>list</i>	prefix-list name	
in	inbound	
out	outbound	

Command Mode

- /exec/configure/if-igp

ip rip summary-address

[no] ip rip summary-address <ip-prefix> | no ipv6 rip summary-address <ipv6-prefix> | ipv6 rip summary-address <ipv6-prefix>

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
ip		Configure IP features
ipv6		Configure IPv6 features
rip		RIP configuration commands
summary-address		RIP summarization address
<i>ip-prefix</i>		Exact prefix

Command Mode

- /exec/configure/if-igp

ip route

```
[no] ip route { <ip-addr> <ip-mask> | <ip-prefix> } { <interface> | { { <pin-interface> <next-hop> } | { <next-hop> | <nh-prefix> } } | { <vlan-interface> } } [ vrf { <vrf-name> | <vrf-known-name> } ] [ track <object-num> ] [ name <rt-name> ] [ tag <tag-value> | <pref> ] +
```

Syntax Description

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
route	Route information
<i>ip-addr</i>	IP prefix in format i.i.i.i
<i>ip-mask</i>	IP network mask in format m.m.m.m
<i>ip-prefix</i>	IP prefix and network mask length in format x.x.x.x/m
<i>pin-interface</i>	Pin interface
<i>next-hop</i>	IP next-hop address in format i.i.i.i
<i>nh-prefix</i>	IP next-hop prefix in format i.i.i.i/m
<i>interface</i>	Interface for interface static routes
<i>vlan-interface</i>	vlan interface
track	(Optional) Specify the Object to be Tracked
<i>object-num</i>	(Optional) Track Object Number
name	(Optional) Specify name of the next hop
<i>rt-name</i>	(Optional) Name of next hop
<i>pref</i>	(Optional) Route preference
tag	(Optional) Supply tag value with static route
<i>tag-value</i>	(Optional) 32-bit value for tag
vrf	(Optional) VRF for next-hop if different from this vrf
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

Command Mode

- /exec/configure /exec/configure/config-mgmt /exec/configure/vrf

ip route static bfd

[no] ip route static bfd <pin-interface> <next-hop>

Syntax Description

Syntax	Description
no	(Optional) Negate a command or set its defaults
ip	Configure IP features
route	Route information
static	Static route based configuration
bfd	Enable bfd detection on static route
<i>pin-interface</i>	Interface on which bfd has to be enabled
<i>next-hop</i>	IP next-hop address in format i.i.i.i

Command Mode

- /exec/configure /exec/configure/config-mgmt /exec/configure/vrf

ip router eigrp

[no] { ip | ipv6 } router eigrp <eigrp-ptag>

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
ip		Configure IP features
ipv6		Configure IPv6 features
router		Enable a routing process
eigrp		Configure an EIGRP routing process on interface
<i>eigrp-ptag</i>		Process tag

Command Mode

- /exec/configure/if-igp

ip router isis

[no] ip router isis <tag>

Syntax Description

Syntax Description	
<i>no</i>	(Optional) Negate a command or set its defaults
<i>ip</i>	Configure IP features
<i>router</i>	Enable a routing process
<i>isis</i>	Intermediate System to Intermediate System (IS-IS)
<i>tag</i>	Process tag

Command Mode

- /exec/configure/if-igp

ip router ospf area

[no] ip router ospf <tag> area { <area-id-ip> | <area-id-int> } [secondaries none]

Syntax Description

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

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

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 download-on-convergence

[no] ip routing download-on-convergence

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	IP events	
routing	Enable debugging for routing events	
download-on-convergence	Download Routes/RNHs after Table Convergence	

Command Mode

- /exec/configure

ip routing event-history

```
[no] ip routing event-history { add-route | cli | delete-route | detail | errors | general | ha | loop-detection |
modify-route | notifications | recursive-next-hop | summary | ufdm | ufdm-detail | ufdm-summary } size {
<size_in_text> | <size_in_bytes> }
```

Syntax Description

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
routing	Routing information
event-history	Configure routing event log
add-route	Add route
cli	CLI
delete-route	Delete route
detail	Detail
errors	Errors
general	General
ha	HA
loop-detection	Loop detection
modify-route	Modify route
notifications	Notification
recursive-next-hop	Recursive next hop
summary	Summary
ufdm	UFDM
ufdm-detail	UFDM Detail
ufdm-summary	UFDM Summary
size	Size of buffer
<i>size_in_text</i>	Buffer size
<i>size_in_bytes</i>	Enter an integer value for the event history buffer

Command Mode

- /exec/configure

ip secondary

ip <ipaddress> secondary | no ip <ipaddress> secondary

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Enable HSRP IPv4 and set the virtual IP address
<i>ipaddress</i>		Virtual IP address
secondary		Make this IP address a secondary virtual IP address

Command Mode

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

ip sla

[no] ip sla <index>

Syntax Description

Syntax Description	
	no (Optional)
	ip
	sla Service Level Agreement (SLA)
	<i>index</i> Entry Number

Command Mode

- /exec/configure

ip sla group schedule

```
{ no ip sla group schedule <group-id> | ip sla group schedule <group-id> { { add <operation-ids> | delete
<operation-ids> } | { <operation-ids> schedule-period <schedule-period-seconds> { [ ageout <ageout-seconds>
] [ frequency { <frequency-seconds> | range <random-frequency-range> } ] [ life { forever | <life-seconds>
} ] [ start-time { <hhmm> [ { January | February | March | April | May | June | July | August | September |
October | November | December } <day> | <day> [ January | February | March | April | May | June | July |
August | September | October | November | December ] ] | pending | now | after <hhmm> } ] } + } | reschedule
} }
```

Syntax Description

Syntax Description

no	
<i>add</i>	delete
<i>start-time</i>	(Optional) January
<i>October</i>	(Optional) November
<i>operation-ids</i>	<schedule-period-seconds>
<i>random-frequency-range</i>	(Optional) <ageout-seconds>
ip	
sla	Service Level Agreement (SLA)
group	Group Configuration or Group Scheduling
schedule	Group scheduling
<i>group-id</i>	Group schedule entry number
delete	Delete probes from existing group
reschedule	Reschedule the group using previous config
<i>operation-ids</i>	Multiple probe ID's to be group scheduled
schedule-period	Group schedule period range
<i>schedule-period-seconds</i>	seconds
frequency	(Optional) Group operation frequency
range	(Optional) Group operation frequency-range for random scheduling
<i>frequency-seconds</i>	(Optional) Specify frequency in seconds
ageout	(Optional) How long to keep this Entry when inactive
<i>ageout-seconds</i>	(Optional) Ageout Seconds

life	(Optional) Length of time to execute in seconds
<i>life-seconds</i>	(Optional) Life seconds (default 3600)
forever	(Optional) continue running forever
after	(Optional) Start after a certain amount of time from now
<i>hhmm</i>	(Optional) Start time (hh:mm)
January	(Optional) Month of year
February	(Optional) Month of year
March	(Optional) Month of year
April	(Optional) Month of year
May	(Optional) Month of year
June	(Optional) Month of year
July	(Optional) Month of year
August	(Optional) Month of year
September	(Optional) Month of year
October	(Optional) Month of year
November	(Optional) Month of year
December	(Optional) Month of year
<i>day</i>	(Optional) Day of month
now	(Optional) Start now
pending	(Optional) Start pending

Command Mode

- /exec/configure

ip sla logging traps

[no] ip sla logging traps

Syntax Description

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

Syntax Description

no	
<i>action-type</i>	(Optional) threshold-value
<i>falling-value</i>	(Optional) <neverImmed>
<i>consecutive-occurrences</i>	(Optional) <x-value>
ip	
sla	Service Level Agreement (SLA)
reaction-configuration	IP SLAs Reaction-Configuration
<i>react-cfg-entry-num</i>	Entry Number
react	Reaction variable to be configured
<i>monitored-element</i>	monitored element
<i>action</i>	(Optional)
threshold-value	(Optional) Threshold Value
<i>rising-value</i>	(Optional) Upper limit for Threshold
threshold-type	(Optional) Threshold Type
<i>neverImmed</i>	(Optional)
<i>consecutive</i>	(Optional)
<i>xOfy</i>	(Optional)
<i>average</i>	(Optional)
<i>x-value</i>	(Optional) X value
<i>y-value</i>	(Optional) Y value
<i>n-attempts</i>	(Optional) N Value

Command Mode

- /exec/configure

ip sla reaction-trigger

[no] ip sla reaction-trigger <entry-num> <target-entry>

Syntax Description

Syntax Description	
no	(Optional)
ip	
sla	Service Level Agreement (SLA)
reaction-trigger	IP SLAs Trigger Assignment
<i>entry-num</i>	Entry Number
<i>target-entry</i>	Target entry Number

Command Mode

- /exec/configure

ip sla reset

ip sla reset

Syntax Description

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

Syntax Description	
<i>tcp-connect</i>	(Optional) ipaddress
no	(Optional)
ip	
sla	
responder	Enable IP SLAs Responder
ipaddress	(Optional) Permanent address
port	(Optional) Permanent port
<i>tcp-port</i>	(Optional) Port Number
udp-echo	(Optional) Setup udp-echo responder
<i>udp-ip</i>	(Optional) IP Address or IP HostName
<i>udp-port</i>	(Optional) Port Number

Command Mode

- /exec/configure

ip sla restart

ip sla restart <index>

Syntax Description

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

Syntax Description

no	
<i>life</i>	(Optional) forever
<i>August</i>	(Optional) September
<i>recurring</i>	(Optional) <life-seconds>
ip	
sla	Service Level Agreement (SLA)
schedule	Entry Scheduling
<i>index</i>	Entry Number
<i>life-seconds</i>	(Optional) Life seconds (default 3600)
forever	(Optional) continue running forever
start-time	(Optional) When to start this entry
<i>hhmm</i>	(Optional) Start time (hh:mm)
January	(Optional) Month of year
February	(Optional) Month of year
March	(Optional) Month of year
April	(Optional) Month of year
May	(Optional) Month of year
June	(Optional) Month of year
July	(Optional) Month of year
August	(Optional) Month of year
September	(Optional) Month of year
October	(Optional) Month of year

November	(Optional) Month of year
December	(Optional) Month of year
<i>day</i>	(Optional) Day of month
now	(Optional) Start now
after	(Optional) Start after a certain amount of time from now
pending	(Optional) Start pending
ageout	(Optional) How long to keep this Entry when inactive
<i>ageout-seconds</i>	(Optional) Ageout Seconds

Command Mode

- /exec/configure

ip source-route

[no] ip source-route

Syntax Description

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

Syntax Description		
no	(Optional)	Negate a command or set its defaults
ip		Configure IP features
source		IP source
binding		Static binding
<i>ipaddr1</i>		IP address
<i>macaddr</i>		MAC address
vlan		VLAN
<i>vlanid</i>		VLAN id
interface		interface
<i>interface1</i>		interface

Command Mode

- /exec/configure

ip source icmp-errors

[no] ip source <interface> icmp-errors

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
ip	Configure IP features
source	Configure source-address for applications
<i>interface</i>	Interface to pick source-address from
icmp-errors	ICMP unreachable/TTL-exceeded/param-prob messages

Command Mode

- /exec/configure /exec/configure/vrf

ip split-horizon eigrp

[no] { ip | ipv6 } split-horizon eigrp <eigrp-ptag>

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	Configure IP features	
ipv6	Configure IPv6 features	
split-horizon	Configures IP-EIGRP split-horizon on interface	
eigrp	EIGRP interface configuration commands	
<i>eigrp-ptag</i>	Process tag	

Command Mode

- /exec/configure/if-igp

ip ssh source-interface

```
[no] ip ssh source-interface <ifnum> [ vrf { <vrf-name> | <vrf-known-name> } ]
```

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ssh	Configure ssh
source-interface	Configure source interface feature for domain-lookup
<i>ifnum</i>	Source interface
vrf	(Optional) Configure VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

Command Mode

- /exec/configure

ip sticky-arp

{ ip sticky-arp [ignore] | no ip sticky-arp ignore }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
sticky-arp		Configure sticky ARP
ignore	(Optional)	Ignore previously configured sticky ARP

Command Mode

- /exec/configure/if-igp /exec/configure/if-vlan-common

ip summary-address eigrp ipv6 summary-address eigrp

```
{ [ no ] ip summary-address eigrp <eigrp-ptag> { { <address> <mask> } | { <prefix> } } [ <distance> ] [
leak-map <leak-map> ] | [ no ] ipv6 summary-address eigrp <eigrp-ptag> <ipv6-prefix> [ <distance> ] [
leak-map <leak-map> ] }
```

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
ip		Configure IP features
ipv6		Configure IPv6 features
summary-address		Configures IP-EIGRP summary address on interface
eigrp		EIGRP interface configuration commands
<i>eigrp-ptag</i>		Process tag
<i>address</i>		IP address
<i>mask</i>		IP network mask
<i>prefix</i>		IP prefix in slash format
<i>distance</i>	(Optional)	Administrative distance
leak-map	(Optional)	Allow dynamic prefixes based on the leak-map
<i>leak-map</i>	(Optional)	leak-map name
<i>eigrp-ptag</i>		

Command Mode

- /exec/configure/if-igp

ip tacacs source-interface

[no] ip tacacs source-interface | ip tacacs source-interface <interface>

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
tacacs		Tacacs server
source-interface		Source interface to be used to reach tacacs server
<i>interface</i>		Interface Description

Command Mode

- /exec/configure

ip tcp path-mtu-discovery

{ { ip tcp path-mtu-discovery } | { no ip tcp path-mtu-discovery } }

Syntax Description

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

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
tcp		Global TCP parameters
synwait-time		Set time to wait on new TCP connections
<i>time</i>		Wait time

Command Mode

- /exec/configure /exec/configure/config-mgmt

ip telnet source-interface

[no] ip telnet source-interface <ifnum> [vrf { <vrf-name> | <vrf-known-name> }]

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
ip		Configure IP features
telnet		Configure telnet
source-interface		Configure source interface feature for domain-lookup
<i>ifnum</i>		Source interface
vrf	(Optional)	Configure VRF
<i>vrf-name</i>	(Optional)	VRF name
<i>vrf-known-name</i>	(Optional)	Known VRF name

Command Mode

- /exec/configure

ip tftp source-interface

```
[no] ip tftp source-interface <ifnum> [ vrf { <vrf-name> | <vrf-known-name> } ]
```

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
ip		Configure IP features
tftp		Configure TFTP client
source-interface		Configure source interface feature for TFTP client
<i>ifnum</i>		Source interface
vrf	(Optional)	Configure VRF
<i>vrf-name</i>	(Optional)	VRF name
<i>vrf-known-name</i>	(Optional)	Known VRF name

Command Mode

- /exec/configure

ip traceroute source-interface

[no] ip traceroute source-interface <ifnum> [vrf { <vrf-name> | <vrf-known-name> }]

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
ip		Configure IP features
traceroute		Configure traceroute client
source-interface		Configure source interface feature for traceroute
<i>ifnum</i>		Source interface
vrf	(Optional)	Configure VRF
<i>vrf-name</i>	(Optional)	VRF name
<i>vrf-known-name</i>	(Optional)	Known VRF name

Command Mode

- /exec/configure

ip unnumbered

ip unnumbered <interface> | no ip unnumbered [<interface>]

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
unnumbered		Configure interface as unnumbered
<i>interface</i>		Interface with IP address

Command Mode

- /exec/configure/ppm-ethernet-switch /exec/configure/if-p2p /exec/configure/if-gre-tunnel /exec/configure/if-any-tunnel /exec/configure/if-port-channel-sub

ip unreachable

[no] ip unreachable

Syntax Description

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

Syntax Description		
no	(Optional)	Negate a command or set its defaults
ip		Configure IP features
verify		Configure Unicast Reverse Path Forwarding or IP Source Guard
source		IP Source Guard related commands
dhcp-snooping-vlan		Vlans on which snooping is enabled

Command Mode

- /exec/configure/if-switching

ip verify unicast source reachable-via rx

```
[no] ip verify unicast source reachable-via { rx | any [ allow-default ] } [ policy { <policy-name> | <acl_pol_name> } ]
```

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
ip		Configure IP features
verify		Configure Unicast Reverse Path Forwarding or IP Source Guard
unicast		Unicast Reverse Path Forwarding
source		Validation of source address
reachable-via		Specify reachability check to apply to the source address
rx		Source is reachable via interface on which packet was received
any		Source is reachable via any interface
allow-default	(Optional)	Loose Default Route Unicast Reverse Path Forwarding
policy	(Optional)	Unicast Reverse Path Forwarding fail policy
<i>policy-name</i>	(Optional)	An uRPF fail policy name
<i>acl_pol_name</i>	(Optional)	An existing access-rules policy

Command Mode

- /exec/configure/if-igp

ipv6

```
{ [ <seqno> ] | no } <permitdeny> { ipv6 | <proto> | <ipv6_other_proto> } { <src_any> | { <src_addr>
<src_wild> } | <src_prefix> | { src_key_host <src_host> } | { src_key_addrgrp <src_addrgrp_name> } } {
<dst_any> | { <dst_addr> <dst_wild> } | <dst_prefix> | { dst_key_host <dst_host> } | { dst_key_addrgrp
<dst_addrgrp_name> } } { [ { dscp { <dscp_num> | <dscp_str> } } ] [ { flow-label <flow_num> } ] [ fragments
] [ log ] [ time-range <time_range_name> ] [ packet-length { <plen_op> <plen0> | <plen_range> <plen1>
<plen2> } } ] + [ capture session <session-id> ] [ { <actionv6> <actionidv6> } ] }
```

Syntax Description

Syntax Description

<i>seqno</i>	(Optional) Sequence number
no	Negate a command or set its defaults
<i>permitdeny</i>	Permit/deny
ipv6	Any IPV6 protocol
<i>proto</i>	A protocol number
<i>ipv6_other_proto</i>	ipv6_other_proto
<i>src_any</i>	Any
src_key_host	A single source host
src_key_addrgrp	Source address group
<i>src_addrgrp_name</i>	Address group name
<i>dst_any</i>	Any
dst_key_host	A single destination host
dst_key_addrgrp	Destination address group
<i>dst_addrgrp_name</i>	Address group name
dscp	(Optional) Match packets with given dscp value
<i>dscp_num</i>	(Optional) Differentiated services codepoint value
<i>dscp_str</i>	(Optional) Differentiated services codepoint label
flow-label	(Optional) Flow label
<i>flow_num</i>	(Optional) Flow label value
fragments	(Optional) Check non-initial fragments
log	(Optional) Log matches against this entry
time-range	(Optional) Specify a time range

<i>time_range_name</i>	(Optional) Time range name
<i>packet-length</i>	(Optional) Match packets based on layer 3 packet length
<i>plen_op</i>	(Optional) Packet-length operator
<i>plen_range</i>	(Optional) Packet-length range
<i>plen0</i>	(Optional) Packet length
<i>plen1</i>	(Optional) Lower packet length
<i>plen2</i>	(Optional) Higher packet length
<i>capture</i>	(Optional) Enable packet capture on this filter for session
<i>session</i>	(Optional) Session ID <1-48> for this session
<i>session-id</i>	(Optional) Session ID <1-48> for this session
<i>actionv6</i>	(Optional) ActionV6
<i>actionidv6</i>	(Optional) redirect: Ethernet1/1,port-channel1 set-erspan-dscp: <1-63> set-erspan-gre-proto: <1-65535>

Command Mode

- /exec/configure/ipv6acl

ipv6 access-class

[no] ipv6 access-class <name> <inout>

Syntax Description

Syntax Description		
	no	(Optional) Negate a command or set its defaults
	ipv6	Configure IPv6 features
	access-class	Specify IPv6 access control for packets
	<i>name</i>	List name
	<i>inout</i>	Traffic direction

Command Mode

- /exec/configure/line

ipv6 access-list

[no] ipv6 access-list <name> [client <clienttype> <clientID>]

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
access-list	Configure access list
<i>name</i>	List name
client	(Optional) set client type
<i>clienttype</i>	(Optional) CLI/ONEP
<i>clientID</i>	(Optional) client appID

Command Mode

- /exec/configure

ipv6 access-list match-local-traffic

[no] ipv6 access-list match-local-traffic | ipv6 access-list match-local-traffic

Syntax Description

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 [<ipv6-prefix> [eui64] [route-preference <pref>] [tag <tag>] [anycast]] | ipv6 address <ipv6-prefix> [eui64] [route-preference <pref>] [tag <tag>] [anycast]

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ipv6		Configure IPv6 features
address		Configure IPv6 address on interface
eui64	(Optional)	Configure Extended Unique Identifier for the low-order 64 bits
anycast	(Optional)	Configure IPv6 anycast address on interface
route-preference	(Optional)	U6RIB route preference for local/direct routes
<i>pref</i>	(Optional)	Local/direct route preference
tag	(Optional)	U6RIB route tag value for local/direct routes
<i>tag</i>	(Optional)	Local/direct tag value

Command Mode

- /exec/configure/if-igp /exec/configure/if-any-tunnel /exec/configure/if-vsan /exec/configure/if-mgmt-config

ipv6 address dhcp

[no] ipv6 address dhcp

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
address	Configure IPv6 address on interface
dhcp	Configure IPv6 address from a dhcp server

Command Mode

- /exec/configure/if-vlan /exec/configure/if-ethernet /exec/configure/if-mgmt-config /exec/configure/if-ethernet-all /exec/configure/if-sub

ipv6 address secondary

ipv6 address <ipv6-prefix> [eui64] secondary

Syntax Description

Syntax Description	
ipv6	Configure IPv6 features
address	Configure IPv6 address on interface
eui64	(Optional) Configure Extended Unique Identifier for the low-order 64 bits
secondary	Configures additional addresses on interface

Command Mode

- /exec/configure/if-igp /exec/configure/if-mgmt-config /exec/configure/if-gre-tunnel /exec/configure/if-6to4-tunnel /exec/configure/if-vsant

ipv6 address use-link-local-only

[no] ipv6 address use-link-local-only | ipv6 address use-link-local-only

Syntax Description

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

Syntax Description		
no		Negate a command or set its defaults
ipv6		Configure IPv6 features
icmp		(Optional) Configure icmp parameters
adjacency-stale-timer		When probing for an adjacency begins
<i>stale-time</i>		Seconds after adjacency uptime

Command Mode

- /exec/configure

ipv6 adjacency forcedownload

```
ipv6 adjacency [ vrf { <vrf-name> | <vrf-known-name> } ] { <interface> { * | <ipv6-addr> } | * } forcedownload
```

Syntax Description

Syntax Description		
	ipv6	Configure IPv6 features
	adjacency	Configure Adjmgr
	vrf	(Optional) Display per-VRF information
	<i>vrf-name</i>	(Optional) VRF name
	<i>vrf-known-name</i>	(Optional) Known VRF name
	<i>interface</i>	Display specific interface adjacencies only
	*	for all adjacencies in this context
	forcedownload	Create consistency in UFDM

Command Mode

- /exec/configure

ipv6 adjacency l2fm-reg

[no] ipv6 adjacency l2fm-reg { [vrf <vrf-known-name>] | <interface> }

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
ipv6		Configure IPv6 features
adjacency		Configure Adjmgr
l2fm-reg		Register with l2fm
vrf	(Optional)	vrf name
<i>vrf-known-name</i>	(Optional)	Known VRF name
<i>interface</i>		Interface name

Command Mode

- /exec/configure

ipv6 adjacency peer-gmac

```
[no] ipv6 adjacency [ vrf { <vrf-name> | <vrf-known-name> } ] { <interface> { * | <ipv6-addr> } | * }
peer-gmac
```

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
ipv6		Configure IPv6 features
adjacency		Configure Adjmgr
vrf	(Optional)	Display per-VRF information
<i>vrf-name</i>	(Optional)	VRF name
<i>vrf-known-name</i>	(Optional)	Known VRF name
<i>interface</i>		Display specific interface adjacencies only
*		for all adjacencies in this context
peer-gmac		Set/clear the peer-gmac bit

Command Mode

- /exec/configure

ipv6 adjacency remote-adj

```
[no] ipv6 adjacency [ vrf { <vrf-name> | <vrf-known-name> } ] { <interface> { * | <ipv6-addr> } | * }
remote-adj
```

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
ipv6		Configure IPv6 features
adjacency		Configure Adjmgr
vrf	(Optional)	Display per-VRF information
<i>vrf-name</i>	(Optional)	VRF name
<i>vrf-known-name</i>	(Optional)	Known VRF name
<i>interface</i>		Display specific interface adjacencies only
*		for all adjacencies in this context
remote-adj		Set/clear the remote-adj bit

Command Mode

- /exec/configure

ipv6 adjacency route distance

{ ipv6 adjacency route distance <pref> } | { no ipv6 adjacency route distance }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ipv6		Configure IPv6 features
adjacency		Configure Adjmgr
route	route	
distance	admin-distance	
<i>pref</i>	preference	

Command Mode

- /exec/configure

ipv6 amt gateway

[no] ipv6 amt gateway

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
amt	AMT global configuration commands
gateway	Configures IPv6 AMT gateway functionality

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 amt gateway send-discovery

[no] ipv6 amt gateway send-discovery

Syntax Description

Syntax Description		
	no	(Optional) Negate a command or set its defaults
	ipv6	Configure IPv6 features
	amt	AMT global configuration commands
	gateway	Configures IPv6 AMT gateway functionality
	send-discovery	Trigger a Discovery message to the Anycast address

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 amt relay

[no] ipv6 amt relay

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
amt	AMT global configuration commands
relay	Configures IPv6 AMT relay functionality

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 cache disable

[no] ipv6 cache disable

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	ipv6	Configure IPv6 features
	cache	Disable cache
	disable	Disable cache

Command Mode

- /exec/configure

ipv6 dad

ipv6 dad { skip-results | force-dad | address <ipv6-prefix> } | no ipv6 dad skip-results

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ipv6		Configure IPv6 features
dad		Duplicate Address Detection
skip-results		Skip DAD results
force-dad		Does force DAD on given interface
address		Address to verify duplicate address in LAN

Command Mode

- /exec/configure/if-igp

ipv6 destination

```
{ ipv6 { destination | source } <addr> } | { no ipv6 { destination | source } }
```

Syntax Description

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 relay

[no] ipv6 dhcp relay

Syntax Description

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

Syntax Description		
no		Negate a command or set its defaults
ipv6		Configure IPv6 features
dhcp		Configure DHCPv6 relay
relay		Configure DHCPv6 relay agent
address		Configure DHCPv6 server relay address
use-vrf		(Optional) server address VRF membership
<i>vrf-name</i>		(Optional) VRF name
interface		(Optional) Destination interface for the relay address
<i>interface-name</i>		(Optional) Destination interface

Command Mode

- /exec/configure/if-igp

ipv6 dhcp relay address ipv6 dhcp relay address

ipv6 dhcp relay address <ip-addr-val> [use-vrf <vrf-name>] [interface <interface-name>] | ipv6 dhcp relay address <ip-addr-val> [interface <interface-name>] [use-vrf <vrf-name>]

Syntax Description

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
<i>vrf-name</i>		(Optional) VRF name
interface		(Optional) Destination interface for the relay address
<i>interface-name</i>		(Optional) Destination interface

Command Mode

- /exec/configure/if-igp /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

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

Syntax Description	
no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
dhcp	Configure DHCPv6 relay
relay	DHCPv6 relay agent parameters
option	Insert DHCPv6 relay information in Relay forward
vpn	Enable DHCPv6 relay support across VRFs

Command Mode

- /exec/configure

ipv6 dhcp relay source-interface

ipv6 dhcp relay source-interface <interface-name>

Syntax Description

Syntax Description

ipv6	Configure IPv6 features
dhcp	Configure DHCPv6 relay
relay	Configure DHCPv6 relay agent
source-interface	Configure source interface for DHCPv6 relay
<i>interface-name</i>	Source interface

Command Mode

- /exec/configure /exec/configure/if-igp

ipv6 dhcp relay source-interface

[no] ipv6 dhcp relay source-interface

Syntax Description

Syntax Description		
	no	Negate a command or set its defaults
	ipv6	Configure IPv6 features
	dhcp	Configure DHCPv6 relay
	relay	Configure DHCPv6 relay agent
	source-interface	Configure source interface for DHCPv6 relay

Command Mode

- /exec/configure /exec/configure/if-igp

ipv6 flood unknown ucast

[no] ipv6 flood unknown ucast

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
flood	Enable flood unknown ucast
unknown	Enable flood unknown ucast
ucast	Enable flood unknown ucast

Command Mode

- /exec/configure

ipv6 flow monitor input

[no] ipv6 flow monitor <monitorname> { input | output } [sampler <samplername>]

Syntax Description

Syntax Description		
ipv6		Configure IPv6 features
flow		NetFlow related commands
monitor		Apply a Flow Monitor to this interface
<i>monitorname</i>		Name of Flow Monitor
input		Apply Flow Monitor on input traffic
output		Apply Flow Monitor on output traffic
sampler		(Optional) Optional Sampler to apply to this Flow Monitor
<i>samplername</i>		(Optional) Name of Sampler

Command Mode

- /exec/configure/if-routing /exec/configure/if-mgmt-ether /exec/configure/if-any-tunnel /exec/configure/if-eth-port-channel /exec/configure/if-eth-port-channel-p2p

ipv6 flow monitor input

[no] ipv6 flow monitor <monitorname> { input | output } [sampler <samplername>]

Syntax Description

Syntax Description

ipv6	Configure IPv6 features
flow	NetFlow related commands
monitor	Apply a Flow Monitor to this interface
<i>monitorname</i>	Name of Flow Monitor
input	Apply Flow Monitor on input traffic
output	Apply Flow Monitor on output traffic
sampler	(Optional) Optional Sampler to apply to this Flow Monitor
<i>samplername</i>	(Optional) Name of Sampler

Command Mode

- /exec/configure/vlan

ipv6 flow monitor input

[no] ipv6 flow monitor <monitorname> input [sampler <samplername>]

Syntax Description

Syntax Description		
ipv6		Configure IPv6 features
flow		NetFlow related commands
monitor		Apply a Flow Monitor to this interface
<i>monitorname</i>		Name of Flow Monitor
input		Apply Flow Monitor on input traffic
sampler		(Optional) Optional Sampler to apply to this Flow Monitor
<i>samplername</i>		(Optional) Name of Sampler

Command Mode

- /exec/configure/vlan-config

ipv6 flow monitor input

[no] ipv6 flow monitor <monitorname> { input | output } [sampler <samplername>]

Syntax Description

Syntax Description

ipv6	Configure IPv6 features
flow	NetFlow related commands
monitor	Apply a Flow Monitor to this interface
<i>monitorname</i>	Name of Flow Monitor
input	Apply Flow Monitor on input traffic
output	Apply Flow Monitor on output traffic
sampler	(Optional) Optional Sampler to apply to this Flow Monitor
<i>samplername</i>	(Optional) Name of Sampler

Command Mode

- /exec/configure/if-vlan-common

ipv6 flow monitor output

```
ipv6 flow monitor <monitorname> output [ sampler <samplername> ]
```

Syntax Description

Syntax	Description
ipv6	Configure IPv6 features
flow	NetFlow related commands
monitor	Apply a Flow Monitor to this interface
<i>monitorname</i>	Name of Flow Monitor
output	Apply Flow Monitor on output traffic
sampler	(Optional) Optional Sampler to apply to this Flow Monitor
<i>samplername</i>	(Optional) Name of Sampler

Command Mode

- /exec/configure/vlan-config

ipv6 flow monitor output

[no] ipv6 flow monitor <monitorname> output [sampler <samplername>]

Syntax Description

Syntax Description		
ipv6		Configure IPv6 features
flow		NetFlow related commands
monitor		Apply a Flow Monitor to this interface
<i>monitorname</i>		Name of Flow Monitor
output		Apply Flow Monitor on output traffic
sampler		(Optional) Optional Sampler to apply to this Flow Monitor
<i>samplername</i>		(Optional) Name of Sampler

Command Mode

- /exec/configure/vlan-config

ipv6 forward

ipv6 forward | no ipv6 forward

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
ipv6	Configure IPv6 features
forward	Enable ipv6 forwarding on interface

Command Mode

- /exec/configure/if-vlan /exec/configure/if-vlan-range

ipv6 host

[no] ipv6 host <s0> <ipv6_0>

Syntax Description

Syntax Description	no (Optional) Negate a command or set its defaults
	ip6 Configure IPv6 features
	host Add an entry to the ip hostname table
	s0 Name of Host

Command Mode

- /exec/configure

ipv6 icmp internal event-history size

[no] ipv6 icmp internal event-history { errors | icmpv6-internal | nd | mld { debugs | events } | ha | sync-event | ipv6-sync-event | vrf | cli } size { <size_in_text> | <size_in_Kbytes> }

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ipv6	Configure IPv6 features	
icmp	Configure icmp parameters	
internal	Commands for internal use	
event-history	various event logs of ICMPV	
errors	error logs ICMPV6	
icmpv6-internal	internal debug events of ICMPV6	
nd	ICMPV6 ND debugs	
mld	ICMPV6 MLD Information	
events	ICMPV6 MLD non-periodic events	
debugs	ICMPV6 MLD debug messages	
ha	ICMPV6 debugs for HA events	
sync-event	ICMPV6 debugs for CFS and MCECM related events	
ipv6-sync-event	ICMPV6 debugs for CFS and MCECM related events for I3	
vrf	ICMPV6 VRF related events	
cli	ICMPV6 CLI related events	
size	Configure the size of the event-hist buffer	
<i>size_in_text</i>	Buffer size	
<i>size_in_Kbytes</i>	Size of the file in kbytes	

Command Mode

- /exec/configure

ipv6 icmp test rfc-4884

ipv6 icmp test rfc-4884 <pkt_size>

Syntax Description

Syntax Description

ipv6	Configure IPv6 features
------	-------------------------

icmp	ICMPv6 commands
------	-----------------

test	test command
------	--------------

rfc-4884	RFC
----------	-----

<i>pkt_size</i>	ipv6 pkt size
-----------------	---------------

Command Mode

- /exec/configure/if-igp

ipv6 icmp vip vmac protocol group

[no] ipv6 icmp vip <ipv6-addr> vmac <mac-addr> protocol <prot> group <id>

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ipv6	Configure IPv6 features	
icmp	ICMPv6 commands	
vip	Virtual IPv6 address	
vmac	Virtual MAC address	
<i>mac-addr</i>	Layer-2 MAC address	
protocol	FHRP protocol	
<i>prot</i>	HSRP VRRP GLBP	
group	Group id	
<i>id</i>	Group id	

Command Mode

- /exec/configure/if-igp

ipv6 internal event-history size

```
[no] ipv6 internal event-history { errors | bfd | log | ipc | snmp | ha | sdb } size { <size_in_text> | <size_in_Kbytes> }
```

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ipv6	Configure IPv6 features	
internal	Commands for internal use	
event-history	various event logs of IPV6	
errors	error logs of IPV6	
log	syslog message of IPV6	
ipc	ipc debug message of IPV6	
snmp	snmp debug message of IPV6	
ha	ha debug message of IPV6	
sdb	sdb debug message of IPV6	
bfd	bfd debug message for ipv6	
size	Configure the size of the event-hist buffer	
<i>size_in_text</i>	Buffer size	
<i>size_in_Kbytes</i>	Size of the file in kbytes	

Command Mode

- /exec/configure

ipv6 link-local

[no] ipv6 link-local [<ipv6-addr>] | ipv6 link-local <ipv6-addr>

Syntax Description

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

Syntax Description		
no		Negate a command or set its defaults
ipv6		Configure IPv6 features
local		Configure local PBR feature
policy		Configure PBR feature
route-map		Route-map for PBR
<i>route-map-name</i>		Route-map name
<i>route-map-name</i>	(Optional)	Route-map name
<i>route-map-name</i>	(Optional)	Known route-map name

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 mld allow-v2-asm

[no] ipv6 [icmp] mld allow-v2-asm

Syntax Description

Syntax Description		
	no	(Optional) Negate a command or set its defaults
	ipv6	Configure IPv6 features
	icmp	(Optional) ICMPv6 commands
	mld	Multicast Listener Discovery commands
	allow-v2-asm	Accept MLDv2 reports for non SSM groups

Command Mode

- /exec/configure/if-igp

ipv6 mld group-timeout

```
{ { no ipv6 [ icmp ] mld group-timeout [ <time> ] } | { ipv6 [ icmp ] mld group-timeout <time> } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ipv6		Configure IPv6 features
icmp		(Optional) ICMPv6 commands
mld		Multicast Listener Discovery commands
group-timeout		Configures group membership timeout
<i>time</i>		(Optional) Time in seconds

Command Mode

- /exec/configure/if-igp

ipv6 mld immediate-leave

[no] ipv6 [icmp] mld immediate-leave

Syntax Description

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

Syntax Description		
no	(Optional)	Negate a command or set its defaults
ipv6		Configure IPv6 features
icmp	(Optional)	ICMPv6 commands
mld		Multicast Listener Discovery commands
join-group		Configures local group membership for router
source	(Optional)	Configures source address for MLDv2 (S,G) channel
route-map		Join group policy
<i>route-map-name</i>		route-map name

Command Mode

- /exec/configure/if-igp

ipv6 mld last-member-query-count

```
{ { no ipv6 [ icmp ] mld last-member-query-count [ <count> ] } | { ipv6 [ icmp ] mld last-member-query-count <count> } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ipv6		Configure IPv6 features
icmp		(Optional) ICMPv6 commands
mld		Multicast Listener Discovery commands
last-member-query-count		Configures number of group-specific Queries sent
<i>count</i>		(Optional) Count value

Command Mode

- /exec/configure/if-igp

ipv6 mld last-member-query-response-time

```
{ { no ipv6 [ icmp ] mld last-member-query-response-time [ <interval> ] } | { ipv6 [ icmp ] mld
last-member-query-response-time <interval> } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ipv6		Configure IPv6 features
icmp		(Optional) ICMPv6 commands
mld		Multicast Listener Discovery commands
last-member-query-response-time		Configures last member query response time
<i>interval</i>		(Optional) Interval in seconds

Command Mode

- /exec/configure/if-igp

ipv6 mld querier

```
{ { no ipv6 [ icmp ] mld { querier-timeout | query-timeout } [ <time> ] } | { ipv6 [ icmp ] mld { querier-timeout | query-timeout } <time> } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ipv6		Configure IPv6 features
icmp		(Optional) ICMPv6 commands
mld		Multicast Listener Discovery commands
query-timeout		Configures querier timeout for MLDv1
querier-timeout		Configures querier timeout for MLDv1
<i>time</i>		(Optional) Time in seconds

Command Mode

- /exec/configure/if-igp

ipv6 mld query-interval

```
{ { no ipv6 [ icmp ] mld query-interval [ <interval> ] } | { ipv6 [ icmp ] mld query-interval <interval> } }
```

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	ipv6	Configure IPv6 features
	icmp	(Optional) ICMPv6 commands
	mld	Multicast Listener Discovery commands
	query-interval	Configures interval between Query transmission
	<i>interval</i>	(Optional) Interval in seconds

Command Mode

- /exec/configure/if-igp

ipv6 mld query-max-response-time

```
{ { no ipv6 [ icmp ] mld query-max-response-time [ <time> ] } | { ipv6 [ icmp ] mld query-max-response-time <time> } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ipv6		Configure IPv6 features
icmp		(Optional) ICMPv6 commands
mld		Multicast Listener Discovery commands
query-max-response-time		Configures MRT for query messages
<i>time</i>		(Optional) Time in seconds

Command Mode

- /exec/configure/if-igp

ipv6 mld report-link-local-groups

[no] ipv6 [icmp] mld report-link-local-groups

Syntax Description

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

Syntax Description		
no		Negate a command or set its defaults
ipv6		Configure IPv6 features
icmp		(Optional) ICMPv6 commands
mld		Multicast Listener Discovery commands
report-policy		ICMPv6 MLD Report Policy
access-group		ICMPv6 MLD access-group
<i>route-map-name</i>		Route-map name

Command Mode

- /exec/configure/if-igp

ipv6 mld robustness-variable

```
{ { no ipv6 [ icmp ] mld robustness-variable [ <value> ] } | { ipv6 [ icmp ] mld robustness-variable <value> } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ipv6		Configure IPv6 features
icmp		(Optional) ICMPv6 commands
mld		Multicast Listener Discovery commands
robustness-variable		Configures RFC defined Robustness Variable
<i>value</i>		(Optional) Count value

Command Mode

- /exec/configure/if-igp

ipv6 mld ssm-translate

[no] ipv6 [icmp] mld ssm-translate <group> <source>

Syntax Description

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

Syntax Description		
no		Negate a command or set its defaults
ipv6		Configure IPv6 features
icmp		(Optional) ICMPv6 commands
mld		Multicast Listener Discovery commands
startup-query-count		Configures number of queries sent at startup
<i>count</i>		(Optional) Count value

Command Mode

- /exec/configure/if-igp

ipv6 mld startup-query-interval

{ { no ipv6 [icmp] mld startup-query-interval [<interval>] } | { ipv6 [icmp] mld startup-query-interval <interval> } }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ipv6		Configure IPv6 features
icmp		(Optional) ICMPv6 commands
mld		Multicast Listener Discovery commands
startup-query-interval		Configures query interval at startup
<i>interval</i>		(Optional) Interval in seconds

Command Mode

- /exec/configure/if-igp

ipv6 mld state-limit

```
{ { ipv6 [ icmp ] mld state-limit <max-states> [ reserved <route-map-name> <max-reserved> ] } | { no ipv6 [ icmp ] mld state-limit [ <max-states> [ reserved <route-map-name> <max-reserved> ] ] } }
```

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	ipv6	Configure IPv6 features
	icmp	(Optional) ICMPv6 commands
	mld	Multicast Listener Discovery commands
	state-limit	Configures State limit
	<i>max-states</i>	Maximum states allowed
	reserved	(Optional) Reserve the states using route-map
	<i>route-map-name</i>	(Optional) Route-map name
	<i>max-reserved</i>	(Optional) Maximum (*,G)/(S,G) entires allowed on the interface

Command Mode

- /exec/configure/if-igp

ipv6 mld static

```
[no] ipv6 [ icmp ] mld { static-group | static-oif } { { <group> [ source <source> ] } | { route-map
<route-map-name> } }
```

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ipv6	Configure IPv6 features	
icmp	(Optional) ICMPv6 commands	
mld	Multicast Listener Discovery commands	
static-group	Configures static oif for a multicast forwarding entry	
static-oif	Configures static oif for a multicast forwarding entry	
source	(Optional) Configures source address for MLDv2 (S,G) Channel	
route-map	Static group policy	
<i>route-map-name</i>	route-map name	

Command Mode

- /exec/configure/if-igp

ipv6 mld version

{ { no ipv6 mld version [<version>] } | { ipv6 mld version <version> } }

Syntax Description

Syntax Description		
no	Negate a command or set its defaults	
ipv6	Configure IPv6 features	
mld	Multicast Listener Discovery commands	
version	Configures MLD version number for interface	
<i>version</i>	(Optional) Version number value	

Command Mode

- /exec/configure/if-igp

ipv6 mroute

```
[no] ipv6 mroute <ipv6-prefix> { { <next-hop> | <nh-prefix> } | <interface> } [ <pref> ] [ vrf { <vrf-name>
| <vrf-known-name> } ]
```

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
ipv6		Configure IPv6 features
mroute		Configure multicast RPF static route
<i>interface</i>		Interface for interface static multicast routes
<i>pref</i>	(Optional)	Route preference
vrf	(Optional)	Display per-VRF information
<i>vrf-name</i>	(Optional)	VRF name
<i>vrf-known-name</i>	(Optional)	Known VRF name

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 nd cache limit

```
{ { ipv6 nd cache limit <max> } | { no ipv6 nd cache limit } } [ syslog <rate> ]
```

Syntax Description

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

Syntax Description	
no	Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
dad	Duplicate Address Detection
attempts	Set IPv6 Duplicate Address Detection Transmits
<i>attempt</i>	Number of attempts

Command Mode

- /exec/configure/if-igp

ipv6 nd dadns-discover

{ ipv6 nd dadns-discover <dadns_interval> } | { no ipv6 nd dadns-discover }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ipv6		Configure IPv6 features
nd		ICMPv6 Neighbor Discovery commands
dadns-discover		Discover host from DADNS
<i>dadns_interval</i>		Interval in milliseconds

Command Mode

- /exec/configure/if-igp

ipv6 nd hop-limit

{ { ipv6 nd hop-limit <hop-limit> } | { no ipv6 nd hop-limit [<hop-limit>] } }

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	ipv6	Configure IPv6 features
	nd	ICMPv6 Neighbor Discovery commands
	hop-limit	Sent in RA messages, tells hosts what hop-limit to use when originating IPv6 packets
	<i>hop-limit</i>	Hop limit in IPv6 header

Command Mode

- /exec/configure/if-igp

ipv6 nd limit-incomplete-adjacency

{ { ipv6 nd limit-incomplete-adjacency <count> } | { no ipv6 nd limit-incomplete-adjacency [<count>] } }

Syntax Description

Syntax Description		
	no	Negate a command or set its defaults
	ipv6	Configure IPv6 features
	nd	ICMPv6 Neighbor Discovery commands
	limit-incomplete-adjacency	Number of incomplete adjacencies
	<i>count</i>	Count

Command Mode

- /exec/configure

ipv6 nd limit_threshold_am_queue

{ { ipv6 nd limit_threshold_am_queue <count> } | { no ipv6 nd limit_threshold_am_queue [<count>] } }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ipv6		Configure IPv6 features
nd		ICMPv6 Neighbor Discovery commands
limit_threshold_am_queue		Threshold AM queue
<i>count</i>		Count

Command Mode

- /exec/configure

ipv6 nd mac-extract

[no] ipv6 nd mac-extract [exclude nud-phase]

Syntax Description

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

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

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

Syntax Description	
no	Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
ns-interval	Retransmission interval between sending Neighbor-Solicitation messages
<i>interval</i>	Interval in milliseconds
<i>retry-count</i>	(Optional) NS Retry count

Command Mode

- /exec/configure/if-igp

ipv6 nd off-list timeout

{ ipv6 nd off-list timeout <time> } | { no ipv6 nd off-list timeout }

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	Display Neighbor Discovery interface information
off-list	off-list
timeout	Expire time
<i>time</i>	Expire time value in seconds

Command Mode

- /exec/configure

ipv6 nd other-config-flag

[no] ipv6 nd other-config-flag

Syntax Description

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

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
prefix	IPv6 Prefix to advertise in RA
<i>val-life</i>	(Optional) Valid Lifetime (secs)
infinite	(Optional) Infinite Valid Lifetime
no-advertise	(Optional) Do not advertise prefix
<i>perf-life</i>	(Optional) Preferred Lifetime (secs)
infinite	(Optional) Infinite Preferred Lifetime
no-autoconfig	(Optional) Do not use prefix for autoconfiguration
no-onlink	(Optional) Do not use prefix for onlink determination
no-rtr-address	(Optional) Do not send full router address in prefix advert
off-link	(Optional) Prefix is offlink

Command Mode

- /exec/configure/if-igp

ipv6 nd prefix default

```
{ { ipv6 nd prefix default [ { <val-life> | infinite } { <perf-life> | infinite } [ [ no-autoconfig ] [ no-onlink ] [ no-rtr-address ] [ off-link ] ] | no-advertise ] } | { no ipv6 nd prefix default } }
```

Syntax Description

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
prefix	IPv6 Prefix to advertise in RA
default	Specify prefix default parameters
<i>val-life</i>	(Optional) Valid Lifetime (secs)
infinite	(Optional) Infinite Valid Lifetime
no-advertise	(Optional) Do not advertise prefix
<i>perf-life</i>	(Optional) Preferred Lifetime (secs)
infinite	(Optional) Infinite Preferred Lifetime
no-autoconfig	(Optional) Do not use prefix for autoconfiguration
no-onlink	(Optional) Do not use prefix for onlink determination
no-rtr-address	(Optional) Do not send full router address in prefix advert
off-link	(Optional) Prefix is offlink

Command Mode

- /exec/configure/if-igp

ipv6 nd process adjacency statistics

[no] ipv6 nd process adjacency statistics

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
process	Process Adjacency Statistics
adjacency	Adjacency
statistics	Statistics

Command Mode

- /exec/configure

ipv6 nd ra-interval

ipv6 nd ra-interval <interval> [min <min-interval>] | no ipv6 nd ra-interval [<interval>] [min <min-interval>]

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ipv6		Configure IPv6 features
nd		ICMPv6 Neighbor Discovery commands
ra-interval		Interval between sending Router-Advertisement messages
<i>interval</i>		Interval in seconds
min		(Optional) Minimum interval between sending RA messages
<i>min-interval</i>		(Optional) Interval in seconds

Command Mode

- /exec/configure/if-igp

ipv6 nd ra-lifetime

```
{ { ipv6 nd ra-lifetime <lifetime> } | { no ipv6 nd ra-lifetime [ <lifetime> ] } }
```

Syntax Description

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
ra-lifetime	Sent in RA messages, Router Lifetime of a default router, 0 means this router will not be the default router
<i>lifetime</i>	Lifetime in seconds

Command Mode

- /exec/configure/if-igp

ipv6 nd ra dns search-list sequence

[no] ipv6 nd ra dns search-list <dnssl> [{ <dnssl_life> | infinite }] sequence <seqno>

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
ipv6		Configure IPv6 features
nd		ICMPv6 Neighbor Discovery commands
ra		Router Advertisement
dns		Domain Name System
search-list		DNS Search List
<i>dnssl</i>		Configure DNS Search List to advertise in RA
<i>dnssl_life</i>	(Optional)	Configure IPv6 DNS Search list life time
infinite	(Optional)	Configure IPv6 DNS Search list life time with infinite
sequence		Sequence of Search List
<i>seqno</i>		Sequence number

Command Mode

- /exec/configure/if-igp

ipv6 nd ra dns search-list suppress

[no] ipv6 nd ra dns search-list suppress

Syntax Description

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

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
ra	Router Advertisement
dns	Domain Name System
server	Domain Name System Server
<i>rdnss_life</i>	(Optional) Configure IPv6 DNS Server life time
infinite	(Optional) Configure IPv6 DNS Server life time with infinite
sequence	Sequence of Server
<i>seqno</i>	Sequence number

Command Mode

- /exec/configure/if-igp

ipv6 nd ra dns server suppress

[no] ipv6 nd ra dns server suppress

Syntax Description

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

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

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 reachable-time

{ { ipv6 nd reachable-time <time> } | { no ipv6 nd reachable-time [<time>] } }

Syntax Description

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
reachable-time	Sent in RA messages, advertised time when a node considers a neighbor up after receiving a reachability confirmation
<i>time</i>	Time in milliseconds

Command Mode

- /exec/configure/if-igp

ipv6 nd retrans-timer

```
{ { ipv6 nd retrans-timer <time> } | { no ipv6 nd retrans-timer [ <time> ] } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ipv6		Configure IPv6 features
nd		ICMPv6 Neighbor Discovery commands
retrans-timer		Sent in RA messages, advertised time between NS messages
<i>time</i>		Time in milliseconds

Command Mode

- /exec/configure/if-igp

ipv6 nd route route-preference High Low Medium infinite

```
{ { ipv6 nd route <prefix> route-preference { High | Low | Medium } { <lifetime> | infinite } [ {
verify-reachability } ] } | { no ipv6 nd route { <prefix> | all } route-preference } }
```

Syntax Description

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
route	Route Information Option in RFC 4191
route-preference	Route preference value
High	High router preference
Low	Low router preference
Medium	Medium router preference
<i>lifetime</i>	Lifetime (secs)
infinite	Infinite lifetime of prefix
verify-reachability	(Optional) Verify if route is present in Route table
all	Remove all the Router Preference prefixes

Command Mode

- /exec/configure/if-igp

ipv6 nd router-preference High Low Medium

{ { ipv6 nd router-preference { High | Low | Medium } } | { no ipv6 nd router-preference } }

Syntax Description

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

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
solicit-na	Solicited Neighbor Advertisemen
accept	Accept Solicit NA without incomplete entry
no-probe	(Optional) Do not probe, create a Reachable Entry
<i>interval</i>	(Optional) Probe Interval in Seconds
no-accept	(Optional) Do not accept Solicit NA without incomplete entry
accept1	Accept Solicit NA without incomplete entry
no-probe1	(Optional) Do not probe, create a Reachable Entry
<i>interval1</i>	(Optional) Probe Interval in Seconds
no-accept1	(Optional) Do not accept Solicit NA without incomplete entry

Command Mode

- /exec/configure

ipv6 nd suppress-ra

[no] ipv6 nd suppress-ra [mtu]

Syntax Description

Syntax Description		
	no	(Optional) Negate a command or set its defaults
	ipv6	Configure IPv6 features
	nd	ICMPv6 Neighbor Discovery commands
	suppress-ra	Disable sending Router-Advertisement messages
	mtu	(Optional) Disable sending MTU in Router-Advertisement messages

Command Mode

- /exec/configure/if-igp

ipv6 nd synchronize

ipv6 nd synchronize [pull | push]

Syntax Description

Syntax Description		
ipv6		Configure IPv6 features
nd		Display Neighbor Discovery interface information
synchronize		CFS synchronize
pull		(Optional) Initiate CFS pull request
push		(Optional) Initiate CFS push message

Command Mode

- /exec

ipv6 nd synchronize

[no] ipv6 nd synchronize

Syntax Description

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

Syntax Description	
no	Negate a command or set its defaults
ipv6	Configure IPv6 features
neighbor	Configure IPv6 address to layer-2 address mapping
<i>mac-addr</i>	(Optional) Layer-2 MAC address

Command Mode

- /exec/configure/if-igp /exec/configure/if-mgmt-config /exec/configure/if-vlan-common

ipv6 pim anycast-rp

[no] ipv6 pim anycast-rp <anycast-rp> <rp-addr>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
pim	PIM6 global configuration commands
anycast-rp	Configure an RP in an Anycast-RP set (using PIM6)

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 pim auto-rp listen

{ ipv6 pim auto-rp { listen | forward } + } | { no ipv6 pim auto-rp [{ listen | forward } +] }

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
ipv6	Configure IPv6 features
pim	PIM6 global configuration commands
auto-rp	Enable listening or forwarding of Auto-RP messages
listen	Listen to Auto-RP messages
forward	Forward Auto-RP messages

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 pim auto-rp mapping-agent-policy

```
{ ipv6 pim auto-rp mapping-agent-policy { <route-map-name> | <rtr_pol_name> } | no ipv6 pim auto-rp
mapping-agent-policy [ <route-map-name> | <rtr_pol_name> ] }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ipv6		Configure IPv6 features
pim		PIM6 global configuration commands
auto-rp		Auto-RP protocol RP-distribution configuration
mapping-agent-policy		Specify policy for filtering Mapping Agent messages
<i>route-map-name</i>		A route-map name
<i>rtr_pol_name</i>		An existing routing-rules policy

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 pim auto-rp mapping-agent send-rp-discovery

```
{ { ipv6 pim { { auto-rp mapping-agent } | send-rp-discovery } <interface> [ scope <ttl> ] } | { no ipv6 pim
{ { auto-rp mapping-agent } | send-rp-discovery } [ <interface> ] [ scope <ttl> ] } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ipv6		Configure IPv6 features
auto-rp		Auto-RP protocol RP-distribution configuration
pim		PIM6 global configuration commands
send-rp-discovery		Configures router to send Auto-RP Discovery messages
mapping-agent		Configures router as an Auto-RP RP-mapping agent
<i>interface</i>		IPv6 address of interface for Auto-RP Announce messages
scope		(Optional) Configure the scope of Auto-RP Discovery messages
<i>ttl</i>		(Optional) TTL value for scope

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 pim auto-rp rp-candidate-policy

```
{ ipv6 pim auto-rp rp-candidate-policy { <route-map-name> | <rtr_pol_name> } | no ipv6 pim auto-rp
rp-candidate-policy [ <route-map-name> | <rtr_pol_name> ] }
```

Syntax Description

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
pim	PIM6 global configuration commands
auto-rp	Auto-RP protocol RP-distribution configuration
rp-candidate-policy	Specify policy for filtering RP candidate messages
<i>route-map-name</i>	A route-map name
<i>rtr_pol_name</i>	An existing routing-rules policy

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 pim auto-rp rp-candidate send-rp-announce group

```
{ { ipv6 pim { { auto-rp rp-candidate } | send-rp-announce } <interface> { group-list <prefix> | route-map
<route-map-name> } { [ scope <ttl> ] | [ interval <interval> ] | [ bidir ] } + } | { no ipv6 pim { { auto-rp
rp-candidate } | send-rp-announce } [ <interface> ] [ group-list <prefix> ] [ route-map <route-map-name> ]
{ [ scope <ttl> ] | [ interval <interval> ] | [ bidir ] } } }
```

Syntax Description

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
pim	PIM6 global configuration commands
auto-rp	Auto-RP protocol RP-distribution configuration
send-rp-announce	Configures router to send Auto-RP Announce messages
rp-candidate	Configures router to be an Auto-RP candidate RP
<i>interface</i>	IPv6 address of interface for nnonce messages
group-list	Group range list
route-map	Group range policy for Auto-RP Candidate RP
<i>route-map-name</i>	route-map name
scope	(Optional) Configure the scope of Auto-RP Announce messages
<i>ttl</i>	(Optional) TTL value for scope
interval	(Optional) Auto-RP Announce message transmission interval
<i>interval</i>	(Optional) Interval in seconds
bidir	(Optional) Group range advertised in PIM6 bidirectional mode

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 pim bidir-rp-limit

[no] ipv6 pim bidir-rp-limit <limit>

Syntax Description

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

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

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
pim	PIM6 global configuration commands
bsr	(Optional) Bootstrap protocol RP-distribution configuration
bsr-candidate	Configure router as a Bootstrap Router candidate
<i>interface</i>	Use IPV6 address of interface for Bootstrap messages
hash-len	(Optional) Hash mask length used in Bootstrap messages
<i>hash-len</i>	(Optional) Hash mask length value
priority	(Optional) BSR priority used in Bootstrap messages
<i>priority</i>	(Optional) BSR priority value

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 pim bsr bsr-policy

```
{ ipv6 pim bsr bsr-policy { <route-map-name> | <rtr_pol_name> } | no ipv6 pim bsr bsr-policy [ <route-map-name> | <rtr_pol_name> ] }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ipv6		Configure IPv6 features
pim		PIM6 global configuration commands
bsr		Bootstrap protocol RP-distribution configuration
bsr-policy		Specify policy for filtering BSR messages
<i>route-map-name</i>		A route-map name
<i>rtr_pol_name</i>		An existing routing-rules policy

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 pim bsr listen

{ ipv6 pim bsr { listen | forward } + } | { no ipv6 pim bsr [{ listen | forward } +] }

Syntax Description

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

Syntax Description		
no		Negate a command or set its defaults
ipv6		Configure IPv6 features
pim		PIM6 global configuration commands
bsr		Bootstrap protocol RP-distribution configuration
rp-candidate-policy		Specify policy for filtering RP candidate messages
<i>route-map-name</i>		A route-map name
<i>rtr_pol_name</i>		An existing routing-rules policy

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 pim dr-priority

```
{ { ipv6 pim dr-priority <priority> } | { no ipv6 pim dr-priority [ <priority> ] } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ipv6		Configure IPv6 features
pim		PIM6 interface configuration commands
dr-priority		Configures priority for PIM6 DR election on interface
<i>priority</i>		Priority value

Command Mode

- /exec/configure/if-igp

ipv6 pim event-history assert-receive

```
[no] ipv6 pim event-history assert-receive { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ipv6	Configure IPv6 features	
pim	PIM6 global configuration commands	
event-history	Configure event-history buffer	
assert-receive	Assert-receive events for PIM6	
size	Configure size	
<i>size_in_text</i>	Buffer size	
<i>size_in_kbytes</i>	Size in kbytes	

Command Mode

- /exec/configure

ipv6 pim event-history bidir

```
[no] ipv6 pim event-history bidir { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ipv6	Configure IPv6 features	
pim	PIM6 global configuration commands	
event-history	Configure event-history buffer	
bidir	Bidir events for PIM6	
size	Configure size	
<i>size_in_text</i>	Buffer size	
<i>size_in_kbytes</i>	Size in kbytes	

Command Mode

- /exec/configure

ipv6 pim event-history hello

[no] ipv6 pim event-history hello { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ipv6	Configure IPv6 features	
pim	PIM6 global configuration commands	
event-history	Configure event-history buffer	
hello	Hello events for PIM6	
size	Configure size	
<i>size_in_text</i>	Buffer size	
<i>size_in_kbytes</i>	Size in kbytes	

Command Mode

- /exec/configure

ipv6 pim event-history join-prune-summary

```
[no] ipv6 pim event-history join-prune-summary { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ipv6	Configure IPv6 features	
pim	PIM6 global configuration commands	
event-history	Configure event-history buffer	
join-prune-summary	Join/Prune-Summary events for PIM6	
size	Configure size	
<i>size_in_text</i>	Buffer size	
<i>size_in_kbytes</i>	Size in kbytes	

Command Mode

- /exec/configure

ipv6 pim event-history join-prune

```
[no] ipv6 pim event-history join-prune { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ipv6	Configure IPv6 features	
pim	PIM6 global configuration commands	
event-history	Configure event-history buffer	
join-prune	Join/Prune events for PIM6	
size	Configure size	
<i>size_in_text</i>	Buffer size	
<i>size_in_kbytes</i>	Size in kbytes	

Command Mode

- /exec/configure

ipv6 pim event-history null-register

```
[no] ipv6 pim event-history null-register { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ipv6	Configure IPv6 features	
pim	PIM6 global configuration commands	
event-history	Configure event-history buffer	
null-register	Reg events for PIM6	
size	Configure size	
<i>size_in_text</i>	Buffer size	
<i>size_in_kbytes</i>	Size in kbytes	

Command Mode

- /exec/configure

ipv6 pim event-history packet

[no] ipv6 pim event-history packet { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ipv6	Configure IPv6 features	
pim	PIM6 global configuration commands	
event-history	Configure event-history buffer	
packet	Packet events for PIM6	
size	Configure size	
<i>size_in_text</i>	Buffer size	
<i>size_in_kbytes</i>	Size in kbytes	

Command Mode

- /exec/configure

ipv6 pim event-history pim6-internal

```
[no] ipv6 pim event-history pim6-internal { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ipv6	Configure IPv6 features	
pim	PIM6 global configuration commands	
event-history	Configure event-history buffer	
pim6-internal	Internal events for PIM6	
size	Configure size	
<i>size_in_text</i>	Buffer size	
<i>size_in_kbytes</i>	Size in kbytes	

Command Mode

- /exec/configure

ipv6 pim event-history rp

[no] ipv6 pim event-history rp { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ipv6	Configure IPv6 features	
pim	PIM6 global configuration commands	
event-history	Configure event-history buffer	
rp	RP events for PIM6	
size	Configure size	
<i>size_in_text</i>	Buffer size	
<i>size_in_kbytes</i>	Size in kbytes	

Command Mode

- /exec/configure

ipv6 pim event-history vrf

```
[no] ipv6 pim event-history vrf { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ipv6	Configure IPv6 features	
pim	PIM6 global configuration commands	
event-history	Configure event-history buffer	
vrf	VRF events for PIM6	
size	Configure size	
<i>size_in_text</i>	Buffer size	
<i>size_in_kbytes</i>	Size in kbytes	

Command Mode

- /exec/configure

ipv6 pim flush-routes

[no] ipv6 pim flush-routes

Syntax Description

Syntax	Description
no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
pim	PIM6 global configuration commands
flush-routes	Remove routes when restarting PIM6

Command Mode

- `/exec/configure /exec/configure/vrf`

ipv6 pim hello-authentication ah-md5

```
{ ipv6 pim hello-authentication ah-md5 <auth-key> | no ipv6 pim hello-authentication ah-md5 [ <auth-key>
] }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ipv6		Configure IPv6 features
pim		PIM6 interface configuration commands
hello-authentication		Add AH header option to Hellos
ah-md5		Use MD5 HMAC
<i>auth-key</i>		MD5 authentication key

Command Mode

- /exec/configure/if-igp

ipv6 pim hello-interval

```
{ { ipv6 pim hello-interval { <interval-min> | <interval-max> } } | { no ipv6 pim hello-interval [ <interval-min> | <interval-max> ] } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ipv6		Configure IPv6 features
pim		PIM6 interface configuration commands
hello-interval		Configures the Hello interval for interface
<i>interval-min</i>		Interval in milliseconds
<i>interval-max</i>		Interval in milliseconds

Command Mode

- /exec/configure/if-igp

ipv6 pim isolate

[no] ipv6 pim isolate

Syntax Description

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
pim	PIM6 global configuration commands
isolate	Isolate this router from IPV6 PIM perspective

Command Mode

- /exec/configure

ipv6 pim jp-delay

```
{ { ipv6 pim jp-delay <delay> } | { no ipv6 pim jp-delay [ <delay> ] } }
```

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	ipv6	Configure IPv6 features
	pim	PIM6 global configuration commands
	jp-delay	Join-Prune message inter-packet delay
	delay	Delay value in microseconds

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 pim jp-policy

```
{ ipv6 pim jp-policy { <route-map-name> | <rtr_pol_name> } [ in | out ] | no ipv6 pim jp-policy [ <route-map-name> | <rtr_pol_name> ] [ in | out ] }
```

Syntax Description

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
pim	PIM6 interface configuration commands
jp-policy	Specify policy for receiving Join-Prune messages
<i>route-map-name</i>	A route-map name
<i>rtr_pol_name</i>	An existing routing-rules policy
in	(Optional) Inbound
out	(Optional) Outbound

Command Mode

- /exec/configure/if-igp

ipv6 pim log-neighbor-changes

[no] ipv6 pim log-neighbor-changes

Syntax Description

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

Syntax Description		
no		Negate a command or set its defaults
ipv6		Configure IPv6 features
pim		PIM6 interface configuration commands
neighbor-policy		Configures a neighbor policy for filtering adjacencies
<i>route-map-name</i>		A route-map name

Command Mode

- /exec/configure/if-igp

ipv6 pim passive

[no] ipv6 pim passive

Syntax Description

Syntax	Description
no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
pim	PIM6 interface configuration commands
passive	Interface in passive mode. No send/recv

Command Mode

- /exec/configure/if-igp

ipv6 pim register-policy

```
{ ipv6 pim register-policy { <route-map-name> | <rtr_pol_name> } | no ipv6 pim register-policy [
<route-map-name> | <rtr_pol_name> ] }
```

Syntax Description

Syntax Description		
	no	Negate a command or set its defaults
	ipv6	Configure IPv6 features
	pim	PIM6 global configuration commands
	register-policy	Specify policy for receiving Register messages
	<i>route-map-name</i>	A route-map name
	<i>rtr_pol_name</i>	An existing routing-rules policy

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 pim register-rate-limit

```
{ { ipv6 pim register-rate-limit <rate> } | { no ipv6 pim register-rate-limit [ <rate> ] } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ipv6		Configure IPv6 features
pim		PIM6 global configuration commands
register-rate-limit		Rate limit for PIM data registers
<i>rate</i>		Packets per second

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 pim rp-address

```
{ { ipv6 pim rp-address <rp-address> [ group-list <prefix> | route-map <route-map-name> | prefix-list <prefix-list-name> ] [ bidir ] [ override ] } | { no ipv6 pim rp-address <rp-address> [ group-list <prefix> | route-map <route-map-name> | prefix-list <prefix-list-name> ] [ bidir ] [ override ] } }
```

Syntax Description

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
pim	PIM6 global configuration commands
rp-address	Configure static RP for group range
group-list	(Optional) Group range for static RP
route-map	(Optional) Route Map policy for static RP
<i>route-map-name</i>	(Optional) route-map name
prefix-list	(Optional) Prefix List policy for static RP
<i>prefix-list-name</i>	(Optional) prefix-list name
bidir	(Optional) Group range is treated in PIM6 bidirectional mode
override	(Optional) Overrides the dynamically learnt RPs

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 pim rp-candidate group

```
{ { ipv6 pim [ bsr ] rp-candidate <interface> { group-list <prefix> | route-map <route-map-name> } [ priority <priority> ] [ interval <interval> ] [ bidir ] } | { no ipv6 pim [ bsr ] rp-candidate [ <interface> ] [ group-list <prefix> ] [ route-map <route-map-name> ] [ priority <priority> ] [ interval <interval> ] [ bidir ] } }
```

Syntax Description

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
pim	PIM6 global configuration commands
bsr	(Optional) Bootstrap protocol RP-distribution configuration
rp-candidate	Configure router as a Rendezvous Point (RP) candidate
<i>interface</i>	IPv6 address of interface for Candidate-RP messages
group-list	Group range list
route-map	Group range policy for Candidate RP
<i>route-map-name</i>	route-map name
priority	(Optional) RP priority used in Candidate-RP messages
<i>priority</i>	(Optional) RP priority value
interval	(Optional) Bootstrap message transmission interval
<i>interval</i>	(Optional) Interval in seconds
bidir	(Optional) Group range advertised in PIM6 bidirectional mode

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 pim sparse-mode

ipv6 pim sparse-mode | no ipv6 pim [sparse-mode]

Syntax Description

Syntax Description		
	no	Negate a command or set its defaults
	ipv6	Configure IPv6 features
	pim	PIM6 interface configuration commands
	sparse-mode	Configures sparse-mode PIMv6 on interface

Command Mode

- /exec/configure/if-igp

ipv6 pim ssm

```
{ ipv6 pim ssm { { range { <group> + | none } } | { route-map <route-map-name> } } | no ipv6 pim ssm { { range { <group> + | none } } | { route-map <route-map-name> } } }
```

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	ipv6	Configure IPv6 features
	pim	PIM6 global configuration commands
	ssm	Source Specific Multicast (SSM) groups
	range	Configure explicit group ranges
	none	Remove all SSM group ranges
	route-map	Group range policy for SSM range
	<i>route-map-name</i>	A route-map name

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 pim state-limit

```
{ { ipv6 pim state-limit <max-states> [ reserved <route-map-name> <max-reserved> ] } | { no ipv6 pim state-limit [ <max-states> [ reserved <route-map-name> <max-reserved> ] ] } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ipv6		Configure IPv6 features
pim		PIM6 global configuration commands
state-limit		Configures State limit
<i>max-states</i>		Maximum (*,G)/(S,G) entries allowed in this VRF
reserved		(Optional) Configures Reserved limit
<i>route-map-name</i>	(Optional)	Route-map name
<i>max-reserved</i>	(Optional)	Maximum reserved (*,G)/(S,G) entries allowed in this VRF

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 pim use-shared-tree-only spt-threshold infinity group-list

{ ipv6 pim { use-shared-tree-only | spt-threshold infinity } group-list <route-map-name> } | { no ipv6 pim { use-shared-tree-only | spt-threshold infinity } [group-list <route-map-name>] }

Syntax Description

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
pim	PIM6 global configuration commands
use-shared-tree-only	Use (*,G) only state, no source state is created
spt-threshold	Source-tree switching threshold
infinity	Never switch to source-tree
group-list	Specify group ranges through policy
<i>route-map-name</i>	Route-map name

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 policy route-map

```
ipv6 policy route-map <route-map-name> | no ipv6 policy route-map [ <route-map-name> | <route-map-name> ]
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ipv6		Configure IPv6 features
policy		Configure PBR feature
route-map		Route-map for PBR
<i>route-map-name</i>		Route-map name
<i>route-map-name</i>	(Optional)	Route-map name
<i>route-map-name</i>	(Optional)	Known route-map name

Command Mode

- /exec/configure/if-igp

ipv6 port traffic-filter

[no] ipv6 port traffic-filter <name> <inout>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
port	Port policy
traffic-filter	Specify access control for packets
<i>name</i>	List name
<i>inout</i>	Traffic direction

Command Mode

- /exec/configure/if-set-acl-l2

ipv6 prefix-list description

```
{ ipv6 prefix-list <ipv6-pfl-name> description <line> } | { no ipv6 prefix-list <ipv6-pfl-name> description }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ipv6		Configure IPv6 features
prefix-list		Build a prefix list
<i>ipv6-pfl-name</i>		Name of prefix-list
<i>ipv6-pfl-name</i>		Known prefix-list name
description		Description of the IPv6 prefix list
<i>line</i>		IPv6 prefix-list description string

Command Mode

- /exec/configure

ipv6 prefix-list permit

```
{ ipv6 prefix-list <ipv6-pfl-name> { permit | deny } <prefix> { [ eq <equal> ] | [ ge <greater> ] [ le <lesser> ] } } | { no ipv6 prefix-list { <ipv6-pfl-name> | <ipv6-pfl-name> } [ { permit | deny } <prefix> { [ eq <equal> ] | [ ge <greater> ] [ le <lesser> ] } ] }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ipv6		Configure IPv6 features
prefix-list		Build a prefix list
<i>ipv6-pfl-name</i>		Name of prefix-list
<i>ipv6-pfl-name</i>		Name of prefix-list
<i>ipv6-pfl-name</i>		Known prefix-list name
permit		Specify routes to forward
deny		Specify routes to reject
eq		(Optional) Exact prefix length to be matched
<i>equal</i>		(Optional) Exact prefix length
ge		(Optional) Minimum prefix length to be matched
<i>greater</i>		(Optional) Minimum prefix length
le		(Optional) Maximum prefix length to be matched
<i>lesser</i>		(Optional) Maximum prefix length

Command Mode

- /exec/configure

ipv6 prefix-list seq permit

```
{ ipv6 prefix-list <ipv6-pfl-name> seq <seq> { permit | deny } <prefix> { [ eq <equal> ] | [ ge <greater> ] [ le <lesser> ] } } | { no ipv6 prefix-list { <ipv6-pfl-name> | <ipv6-pfl-name> } seq <seq> [ { permit | deny } <prefix> { [ eq <equal> ] | [ ge <greater> ] [ le <lesser> ] } } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ipv6		Configure IPv6 features
prefix-list		Build a prefix list
<i>ipv6-pfl-name</i>		Name of prefix-list
<i>ipv6-pfl-name</i>		Name of prefix-list
<i>ipv6-pfl-name</i>		Known prefix-list name
seq		Sequence number of an entry
<i>seq</i>		Sequence number
permit		Specify routes to forward
deny		Specify routes to reject
eq		(Optional) Exact prefix length to be matched
<i>equal</i>		(Optional) Exact prefix length
ge		(Optional) Minimum prefix length to be matched
<i>greater</i>		(Optional) Minimum prefix length
le		(Optional) Maximum prefix length to be matched
<i>lesser</i>		(Optional) Maximum prefix length

Command Mode

- /exec/configure

ipv6 queue-packets-limit

[no] ipv6 queue-packets-limit [<limit>]

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
ipv6		Configure IPv6 features
queue-packets-limit		Maximum number of queue packets for unresolved NDS
<i>limit</i>	(Optional)	Unresolved ND queue packet limit

Command Mode

- /exec/configure

ipv6 queue-packets

[no] ipv6 queue-packets

Syntax Description

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

Syntax Description	
no	Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	(Optional) ICMPv6 Neighbor Discovery commands
redirects	Enable sending ICMPv6 Redirect messages

Command Mode

- /exec/configure/if-igp /exec/configure/if-mgmt-config

ipv6 repopulate internal context array

ipv6 repopulate internal context array

Syntax Description

Syntax Description

ipv6	Configure IPv6 features
repopulate	Repopulate internal data structure
internal	Commands for internal use
context	repopulate context related info
array	arrays which stores context ptrs

Command Mode

- /exec

ipv6 route

```
[no] ipv6 route <ipv6-prefix> { <interface> | { { <link-local> <interface-link-local> } | { <pin-interface>
<next-hop> } | { <next-hop> | <nh-prefix> } | { <vlan-interface> } } [ vrf { <vrf-name> | <vrf-known-name>
} ] } [ track <object-num> ] [ name <rt-name> ] [ <pref> | tag <tag-value> ] +
```

Syntax Description

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
route	Configure IPv6 unicast static route
<i>interface</i>	Interface for interface static routes
<i>vlan-interface</i>	vlan interface
name	(Optional) Specify name of the next hop
<i>rt-name</i>	(Optional) Name of next hop
<i>pin-interface</i>	Pin interface
<i>interface-link-local</i>	Interface for interface static routes
track	(Optional) Specify the Object to be Tracked
<i>object-num</i>	(Optional) Track Object Number
vrf	(Optional) VRF for next-hop if different from this vrf
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>pref</i>	(Optional) Route preference
tag	(Optional) Supply tag value with static route
<i>tag-value</i>	(Optional) 32-bit value for tag

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 route static bfd

[no] ipv6 route static bfd <pin-interface> <next-hop>

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
ipv6		Configure IP features
route		Route information
static		Static route based configuration
bfd		Enable bfd detection on static route
<i>pin-interface</i>		Interface on which bfd has to be enabled

Command Mode

- /exec/configure /exec/configure/config-mgmt /exec/configure/vrf

ipv6 router isis

[no] ipv6 router isis <tag>

Syntax Description

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

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

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 event-history size

[no] ipv6 routing event-history { am | cli | detail | errors | general | ha | lfe | recursive-next-hop | summary | ufdm | ufdm-detail | ufdm-summary } size { <size_in_text> | <size_in_bytes> }

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ipv6	Configure IPv6 features	
routing	Routing information	
event-history	Configure routing event log	
am	AM	
cli	CLI	
detail	Detail	
errors	Errors	
general	General	
ha	HA	
lfe	LFE	
recursive-next-hop	Recursive next hop	
summary	Summary	
ufdm	UFDM	
ufdm-detail	UFDM Detail	
ufdm-summary	UFDM Summary	
size	Size of buffer	
<i>size_in_text</i>	Buffer size	
<i>size_in_bytes</i>	Enter an integer value for the event history buffer	

Command Mode

- /exec/configure

ipv6 routing multicast software-replication

[no] ipv6 routing multicast software-replication

Syntax Description

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 source-route

[no] ipv6 source-route [rh0]

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
source-route	Process IPv6 Routing Header
rh0	(Optional) Process IPv6 Routing Header - Type 0 (RH0)

Command Mode

- /exec/configure

ipv6 switch-packets

[no] ipv6 switch-packets [lla]

Syntax Description

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

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ipv6	Configure IPv6 features	
traffic-filter	Specify access control for packets	
<i>name</i>	List name	
<i>inout</i>	Traffic direction	

Command Mode

- /exec/configure/if-set-acl-l3

ipv6 unreachable

[no] ipv6 [icmp] unreachable

Syntax Description

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
icmp	(Optional) ICMPv6 commands
unreachables	Enable sending ICMPv6 Unreachable messages (port-unreachables are always rate-limit enabled)

Command Mode

- /exec/configure/if-igp

ipv6 verify unicast source reachable-via rx

[no] ipv6 verify unicast source reachable-via { rx | any [allow-default] }

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ipv6	Configure IPv6 features	
verify	Unicast Reverse Path Forwarding	
unicast	Unicast Reverse Path Forwarding	
source	Validation of source address	
reachable-via	Specify reachability check to apply to the source address	
rx	Source is reachable via interface on which packet was received	
any	Source is reachable via any interface	
allow-default	(Optional) Loose Default Route Unicast Reverse Path Forwarding	

Command Mode

- /exec/configure/if-igp

ipv6 vip

[no] ipv6 vip <ipv6-addr>

Syntax Description

Syntax Description	no (Optional) Negate a command or set its defaults
---------------------------	--

ip6	Configure IPv6 features
-----	-------------------------

vip	Virtual IPv6 address
-----	----------------------

Command Mode

- /exec/configure/if-igp

is-type

is-type <is-type> | no is-type [<is-type>]

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	is-type	IS type for this IS-IS process
	<i>is-type</i>	IS-IS IS type

Command Mode

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

ishow cli find nodes

ishow cli find nodes [<component>] [recurse]

Syntax Description

Syntax Description		
ishow	Show internal information	
cli	Show CLI information	
find		
nodes	display	
<i>component</i>	(Optional) display	
recurse	(Optional) go	

Command Mode

- /exec

ishow cli modes

ishow cli modes

Syntax Description

Syntax Description

ishow Show internal information

cli Show CLI information

mods show

Command Mode

- /exec

ishow cli nodes

ishow cli nodes [<mode>]

Syntax Description

Syntax Description	
ishow	Show internal information
cli	Show CLI information
nodes	show
<i>mode</i>	(Optional) mode

Command Mode

- /exec

ishow cli paths

ishow cli paths <component> [<type>]

Syntax Description

Syntax Description

ishow	Show internal information
cli	Show CLI information
paths	show
<i>component</i>	component
<i>type</i>	(Optional)

Command Mode

- /exec

ishow cli tags

ishow cli tags

Syntax Description

Syntax Description	
ishow	Show internal information
cli	Show CLI information
tags	

Command Mode

- /exec

ishow core backtrace

ishow core <pid> backtrace

Syntax Description

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

Syntax Description	
no	(Optional) Negate a command or set its defaults
isis	IS-IS configuration commands
authentication-check	Check authentication on received hellos

Command Mode

- /exec/configure/if-p2p

isis authentication-check level-1

[no] isis authentication-check level-1

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
isis		IS-IS configuration commands
authentication-check		Check authentication on received hellos
level-1		Configure authentication check for level-1 IIHs

Command Mode

- /exec/configure/if-ma

isis authentication-check level-2

[no] isis authentication-check level-2

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
isis	IS-IS configuration commands
authentication-check	Check authentication on received hellos
level-2	Configure authentication check for level-2 IIHs

Command Mode

- /exec/configure/if-ma

isis authentication-type cleartext

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

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
isis		IS-IS configuration commands
authentication-type		Set hello authentication type
cleartext		Cleartext
md5		HMAC-MD5

Command Mode

- /exec/configure/if-p2p

isis authentication-type cleartext

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

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
isis		IS-IS configuration commands
authentication-type		Set hello authentication type
cleartext		Cleartext
md5		HMAC-MD5
<i>level</i>		IS-IS level

Command Mode

- /exec/configure/if-ma

isis authentication key-chain

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

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	isis	IS-IS configuration commands
	authentication	Set hello authentication keychain
	key-chain	Set hello authentication keychain
	<i>auth-keychain</i>	authentication keychain

Command Mode

- /exec/configure/if-p2p

isis authentication key-chain

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

Syntax Description

Syntax Description		
<code>no</code>		Negate a command or set its defaults
<code>isis</code>		IS-IS configuration commands
<code>authentication</code>		Set hello authentication keychain
<code>key-chain</code>		Set hello authentication keychain
<code>auth-keychain</code>		authentication keychain
<code>level</code>		IS-IS level

Command Mode

- /exec/configure/if-ma

isis bfd

[no] isis bfd [disable]

Syntax Description

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

Syntax Description		
no		Negate a command or set its defaults
isis		IS-IS configuration commands
circuit-type		Configure circuit type for interface
<i>circuit-type</i>		IS-IS circuit type

Command Mode

- /exec/configure/if-igp

isis csnp-interval level

[no] isis csnp-interval <sec> { level-1 | level-2 }

Syntax Description

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 event-history adjacency

[no] isis event-history adjacency { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
isis	Event-history buffers for IS-IS	
event-history	Configure event-history buffers	
adjacency	Adjacency events for IS-IS	
size	Configure size	
<i>size_in_text</i>	Buffer size	
<i>size_in_kbytes</i>	Size in kbytes	

Command Mode

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

isis event-history cli

```
[no] isis event-history cli { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
isis	Event-history buffers for IS-IS	
event-history	Configure event-history buffers	
cli	CLI events for IS-IS	
size	Configure size	
<i>size_in_text</i>	Buffer size	
<i>size_in_kbytes</i>	Size in kbytes	

Command Mode

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

isis event-history csnp

[no] isis event-history csnp { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
isis	Event-history buffers for IS-IS	
event-history	Configure event-history buffers	
csnp	CSNP events for IS-IS	
size	Configure size	
<i>size_in_text</i>	Buffer size	
<i>size_in_kbytes</i>	Size in kbytes	

Command Mode

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

isis event-history dis

[no] isis event-history dis { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
isis	Event-history buffers for IS-IS	
event-history	Configure event-history buffers	
dis	Dis events for IS-IS	
size	Configure size	
<i>size_in_text</i>	Buffer size	
<i>size_in_kbytes</i>	Size in kbytes	

Command Mode

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

isis event-history events

[no] isis event-history events { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
isis	Event-history buffers for IS-IS
event-history	Configure event-history buffers
events	Events for IS-IS
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

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

isis event-history graceful

```
[no] isis event-history graceful { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	isis	Event-history buffers for IS-IS
	event-history	Configure event-history buffers
	graceful	Graceful Restart events for IS-IS
	size	Configure size
	<i>size_in_text</i>	Buffer size
	<i>size_in_kbytes</i>	Size in kbytes

Command Mode

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

isis event-history ha

[no] isis event-history ha { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
isis	Event-history buffers for IS-IS	
event-history	Configure event-history buffers	
ha	HA events for IS-IS	
size	Configure size	
<i>size_in_text</i>	Buffer size	
<i>size_in_kbytes</i>	Size in kbytes	

Command Mode

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

isis event-history iih

```
[no] isis event-history iih { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
isis		Event-history buffers for IS-IS
event-history		Configure event-history buffers
iih		IIH events for IS-IS
size		Configure size
<i>size_in_text</i>		Buffer size
<i>size_in_kbytes</i>		Size in kbytes

Command Mode

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

isis event-history lsp-flood

```
[no] isis event-history lsp-flood { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
isis	Event-history buffers for IS-IS	
event-history	Configure event-history buffers	
lsp-flood	LSP-flood events for IS-IS	
size	Configure size	
<i>size_in_text</i>	Buffer size	
<i>size_in_kbytes</i>	Size in kbytes	

Command Mode

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

isis event-history lsp-gen

[no] isis event-history lsp-gen { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
isis	Event-history buffers for IS-IS	
event-history	Configure event-history buffers	
lsp-gen	LSP-Gen events for IS-IS	
size	Configure size	
<i>size_in_text</i>	Buffer size	
<i>size_in_kbytes</i>	Size in kbytes	

Command Mode

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

isis event-history mtr

[no] isis event-history mtr { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
isis	Event-history buffers for IS-IS	
event-history	Configure event-history buffers	
mtr	MTR events for IS-IS	
size	Configure size	
<i>size_in_text</i>	Buffer size	
<i>size_in_kbytes</i>	Size in kbytes	

Command Mode

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

isis event-history psnp

[no] isis event-history psnp { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
isis		Event-history buffers for IS-IS
event-history		Configure event-history buffers
psnp		PSNP events for IS-IS
size		Configure size
<i>size_in_text</i>		Buffer size
<i>size_in_kbytes</i>		Size in kbytes

Command Mode

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

isis event-history redist

[no] isis event-history redist { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
isis	Event-history buffers for IS-IS	
event-history	Configure event-history buffers	
redist	Redist events for IS-IS	
size	Configure size	
<i>size_in_text</i>	Buffer size	
<i>size_in_kbytes</i>	Size in kbytes	

Command Mode

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

isis event-history spf-leaf

```
[no] isis event-history spf-leaf { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
isis	Event-history buffers for IS-IS	
event-history	Configure event-history buffers	
spf-leaf	Shortest path first events for IS-IS	
size	Configure size	
<i>size_in_text</i>	Buffer size	
<i>size_in_kbytes</i>	Size in kbytes	

Command Mode

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

isis event-history spf-tree

```
[no] isis event-history spf-tree { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
isis	Event-history buffers for IS-IS	
event-history	Configure event-history buffers	
spf-tree	SPF-Tree events for IS-IS	
size	Configure size	
<i>size_in_text</i>	Buffer size	
<i>size_in_kbytes</i>	Size in kbytes	

Command Mode

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

isis event-history tlv

```
[no] isis event-history tlv { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
isis	Event-history buffers for IS-IS	
event-history	Configure event-history buffers	
tlv	TLV events for IS-IS	
size	Configure size	
<i>size_in_text</i>	Buffer size	
<i>size_in_kbytes</i>	Size in kbytes	

Command Mode

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

isis event-history urib

[no] isis event-history urib { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
isis	Event-history buffers for IS-IS	
event-history	Configure event-history buffers	
urib	URIB events for IS-IS	
size	Configure size	
<i>size_in_text</i>	Buffer size	
<i>size_in_kbytes</i>	Size in kbytes	

Command Mode

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

isis hello-interval

[no] isis hello-interval <sec>

Syntax Description

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-p2p

isis hello-interval level

[no] isis hello-interval <sec> { level-1 | level-2 }

Syntax Description

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-ma

isis hello-multiplier

[no] isis hello-multiplier <multi>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
isis	IS-IS configuration commands
hello-multiplier	Set multiplier for Hello holding time
<i>multi</i>	Hello multiplier value

Command Mode

- /exec/configure/if-p2p

isis hello-multiplier level

[no] isis hello-multiplier <multi> { level-1 | level-2 }

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
isis	IS-IS configuration commands
hello-multiplier	Set multiplier for Hello holding time
<i>multi</i>	Hello multiplier value
level-1	Specify hello multiplier for level-1 IIHs
level-2	Specify hello multiplier for level-2 IIHs

Command Mode

- /exec/configure/if-ma

isis hello-padding

```
{ isis hello-padding | no isis hello-padding [ always ] }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
isis		IS-IS configuration commands
hello-padding		Pad IS-IS hello PDUs to full MTU
always		(Optional) Pad every hello

Command Mode

- /exec/configure/if-igp

isis hello-padding always

isis hello-padding always

Syntax Description

Syntax Description		
isis		IS-IS configuration commands
hello-padding		Pad IS-IS hello PDUs to full MTU
always		Pad every hello

Command Mode

- /exec/configure/if-igp

isis ipv6 bfd

[no] isis ipv6 bfd [disable]

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
isis	IS-IS configuration commands
ipv6	Enable BFD for ipv6
bfd	Interface BFD configuration
disable	(Optional) Disable BFD on interface

Command Mode

- /exec/configure/if-igp

isis ipv6 metric

[no] isis ipv6 metric <metric> <level>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
isis	IS-IS configuration commands
metric	Configure metric for IPV6 topology
ipv6	Configure metric for IPV6 topology
<i>metric</i>	Default metric
<i>level</i>	IS-IS level

Command Mode

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

isis lsp-interval

[no] isis lsp-interval <msec>

Syntax Description

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

Syntax Description		
no		Negate a command or set its defaults
isis		IS-IS configuration commands
mesh-group		Set IS-IS mesh group
<i>mesh-id</i>		Mesh group number
blocked		Block LSPs on this interface

Command Mode

- /exec/configure/if-igp

isis metric

[no] isis metric <metric> <level>

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	isis	IS-IS configuration commands
	metric	Configure the metric for interface
	<i>metric</i>	Default metric
	<i>level</i>	IS-IS level

Command Mode

- /exec/configure/if-igp /exec/configure/if-mpls-tunnel

isis mtu-check

[no] isis mtu-check

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
isis	IS-IS configuration commands
mtu-check	Check mtu on received hellos, if its padded

Command Mode

- /exec/configure/if-p2p

isis mtu-check level

[no] isis mtu-check { level-1 | level-2 }

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
isis	IS-IS configuration commands
mtu-check	Check mtu on received hellos, if its padded
level-1	Configure mtu-check for level-1
level-2	Configure mtu-check for level-2

Command Mode

- /exec/configure/if-ma

isis network point-to-point

[no] isis network point-to-point

Syntax Description

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

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>]

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
isis		IS-IS configuration commands
passive-interface		Suppress IS-IS PDU
default		Undo a command
<i>level</i>		Level to suppress

Command Mode

- /exec/configure/if-igp

isis priority level

[no] isis priority <priority> { level-1 | level-2 }

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
isis	IS-IS configuration commands
priority	Set priority for DIS election
<i>priority</i>	Priority value
level-1	Specify priority for level-1 routing
level-2	Specify priority for level-2 routing

Command Mode

- /exec/configure/if-ma

isis retransmit-interval

[no] isis retransmit-interval <sec>

Syntax Description

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-p2p

isis retransmit-throttle-interval

[no] isis retransmit-throttle-interval <msec>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
isis	IS-IS configuration commands
retransmit-throttle-interval	Set interface LSP retransmission interval
<i>msec</i>	Delay between retransmitted LSPs (milliseconds)

Command Mode

- /exec/configure/if-p2p

isis shutdown

[no] isis shutdown

Syntax Description

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

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

Syntax Description	
no	(Optional) Negate a command or set its defaults
isolate	Isolate this router from OSPF perspective

Command Mode

- /exec/configure/router-ospf

isolate

[no] isolate

Syntax Description

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

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

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

Syntax Description	
no	(Optional) Negate a command or set its defaults
isolate	Isolate this router from OSPFV3 perspective

Command Mode

- /exec/configure/router-ospf3

itd

```
{ itd <service-name> } | { no itd <service-name> }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
itd		ITD service
<i>service-name</i>		ITD service-name

Command Mode

- /exec/configure

itd

{ itd <service-name> } | { no itd <service-name> }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
itd		ITD service
<i>service-name</i>		ITD service-name

Command Mode

- /exec/configure

itd device-group

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

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
itd		ITD service
device-group		ITD device group
<i>svc-name</i>		service-name

Command Mode

- /exec/configure

itd device-group

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

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
itd		ITD service
device-group		ITD device group
<i>svc-name</i>		service-name

Command Mode

- /exec/configure

itd session access-list refresh

itd session access-list <acl-name> refresh

Syntax Description

Syntax Description		
itd	ITD service	
session	ITD session	
access-list	ITD access-list	
<i>acl-name</i>	acl-name	
refresh	refresh	

Command Mode

- /exec/configure

itd session device-group

```
{ itd session device-group <svc-name> } | { no itd session device-group <svc-name> }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
itd		ITD service
session		ITD session
device-group		ITD device group
<i>svc-name</i>		service-name

Command Mode

- /exec/configure

itd statistics

{ itd statistics <service-name> } | { no itd statistics <service-name> }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
itd		ITD service
statistics		ITD statistics
<i>service-name</i>		ITD service-name

Command Mode

- /exec/configure

itd statistics

{ itd statistics <service-name> } | { no itd statistics <service-name> }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
itd		ITD service
statistics		ITD statistics
<i>service-name</i>		ITD service-name

Command Mode

- /exec/configure



J Commands

- [job name](#), on page 2268
- [json-pretty](#), on page 2269
- [json](#), on page 2270
- [json](#), on page 2271

job name

[no] job name <s0>

Syntax Description

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

Syntax Description

| Pipe command output to filter

json-pretty output in json pretty print format

Command Mode

- /output

json

| json

Syntax Description

Syntax Description

| Pipe command output to filter

json output in json format

Command Mode

- /output

json

| json

Syntax Description

Syntax Description

| Pipe command output to filter

json output in json format

Command Mode

- /output



K Commands

- [key-server-priority](#), on page 2274
- [key-string](#), on page 2275
- [key-string 7](#), on page 2276
- [key](#), on page 2277
- [key chain](#), on page 2278
- [key config-key hex](#), on page 2279
- [kill-everyone](#), on page 2280
- [kill background](#), on page 2281

key-server-priority

[no] key-server-priority <pri>

Syntax Description

Syntax Description

key-server-priority	Configure Key-Server priority
---------------------	-------------------------------

<i>pri</i>	key-server priority value
------------	---------------------------

Command Mode

- /exec/configure/masec-policy

key-string

{ key-string [0] <keystring> | no key-string }

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	key-string	Set key string
	0	(Optional) Encryption Type - No Encryption(default)
	<i>keystring</i>	key string

Command Mode

- /exec/configure/keychain-key

key-string 7

```
{ key-string 7 <keystring> }
```

Syntax Description

Syntax Description

key-string Set key string

7 Encryption Type -
Proprietary

keystring key string

Command Mode

- /exec/configure/keychain-key

key

[no] key <keyid>

Syntax Description

Syntax Description	no (Optional) Negate a command or set its defaults
	key Configure a key
	<i>keyid</i> Key identifier

Command Mode

- /exec/configure/keychain

key chain

[no] key chain <keychain>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
key	Key Management
chain	Keychain Management
<i>keychain</i>	key-chain name

Command Mode

- /exec/configure

key config-key hex

[no] key config-key { hex | ascii } [<master-key>]

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
key	Encryption key for strong encryption
config-key	Master-key for strong encryption of secrets in config
hex	Key followed should be in hex format
ascii	Key followed should be in ascii format
<i>master-key</i>	(Optional) Enter the Master-key

Command Mode

- /exec

kill-everyone

[no] [eigrp] kill-everyone

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
eigrp	(Optional) EIGRP router configuration commands
kill-everyone	Kill all adjacencies on SIA

Command Mode

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

kill background

kill background <pid>

Syntax Description

Syntax Description	
kill	terminate processes
background	kill background processes (started with 'source background <file>' command)
<i>pid</i>	background script to terminate, by process-id or just a regex matching any line from 'show background' command

Command Mode

- /exec



L Commands

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- [lsp](#), on page 2596
- [lsp](#), on page 2597
- [lsp attributes](#), on page 2598

l2rib dup-host-mac-detection

l2rib dup-host-mac-detection <num-of-moves> <duration>

Syntax Description

Syntax Description		
l2rib		Layer 2 routing information base
dup-host-mac-detection		Set Duplicate-Host-MAC-Detection parameters
<i>num-of-moves</i>		Number of host moves to be allowed, default is 5
<i>duration</i>		Duplicate detection timeout in secs for host moves, default is 180

Command Mode

- /exec/configure

l2rib dup-host-mac-recovery

l2rib dup-host-mac-recovery <timeout> <retry-count>

Syntax Description

Syntax Description	l2rib	Layer 2 routing information base
	dup-host-mac-recovery	Set Duplicate-Host-MAC-Recovery (Unfreeze) parameters
	<i>timeout</i>	Unfreeze timeout (secs), default is 30
	<i>retry-count</i>	Unfreeze retry count, default is 3

Command Mode

- /exec/configure

l2rib event-history size

```
l2rib event-history { client-tbl | ead-pl | errors | mac | mac-ip | misc-obj | rmac | topology | tx-infra } size {
default | medium | high | very-high }
```

Syntax Description

Syntax Description		
l2rib		Layer 2 routing information base
event-history		Set event-history size for L2RIB
client-tbl		L2RIB Client, Producer, Consumer Tables Event Logs
ead-pl		L2RIB EAD, Path-List Objects Event Logs
errors		L2RIB Error Logs
mac		L2RIB MAC Object Event Logs
mac-ip		L2RIB MAC Object Event Logs
misc-obj		L2RIB IMET, Flood-List, ARP-Signal, Peer ID, Startup-Routes Objects Event Logs
rmac		L2RIB Router MAC Object Event Logs
topology		L2RIB Topology Object Event Logs
tx-infra		L2RIB TxList, TxSend, TxThread Event Logs
size		Size
default		Default (Low)
medium		Medium
high		High
very-high		Very High

Command Mode

- /exec/configure

l3vm event-history

```
[no] l3vm event-history { pss | errors | mts | reinit | cli | vrf | topology } { size { <size_in_text> | <size_in_Kbytes> } }
```

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
l3vm	Debug L3VM information	
event-history	log debug events into event history buffer	
pss	L3VM pss operation	
errors	L3VM errors	
mts	L3VM MTS messages	
reinit	L3VM reinit events	
cli	Log L3VM CLI related events	
vrf	Log VRF related events	
topology	Log Topology related events	
size	Configure the size of the event-hist buffer	
<i>size_in_text</i>	Buffer size	
<i>size_in_Kbytes</i>	Size of the file in kbytes	

Command Mode

- /exec

label-allocation-mode per-vrf

label-allocation-mode per-vrf | no label-allocation-mode [per-vrf]

Syntax Description

Syntax Description		
no		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 /exec/configure/router-bgp/router-bgp-af-ipv6 /exec/configure/router-bgp/router-bgp-af-ipv4

label allocate global

[no] label allocate global { all-routes | host-routes | prefix-list <px-list> }

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
label	LDP label configuration
allocate	Allocate local labels
global	Specify default VPN Routing/Forwarding instance
all-routes	Allocate local labels for all routes
host-routes	Allocate local labels for host routes only (default)
prefix-list	Specify a prefix-list for local label filtering
<i>px-list</i>	IP prefix-list for destination prefixes

Command Mode

- /exec/configure/ldp

lacp fast-select-hot-standby

lacp fast-select-hot-standby | no lacp fast-select-hot-standby

Syntax Description

Syntax Description

no	Negate a command or set its defaults
lacp	Set LACP parameters for the interface
fast-select-hot-standby	Configure fast select for hot standby ports. Enabling this feature will allow fast selection of hot standby port when last active port in the port-channel is going down.

Command Mode

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

lACP mode delay

[no] lACP mode delay

Syntax Description

Syntax Description	<code>no</code> (Optional) Negate a command or set its defaults
	<code>lACP</code> Set LACP parameters for the interface
	<code>mode</code> Enter the LACP mode
	<code>delay</code> 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

Syntax Description		
no		Negate a command or set its defaults
lacp		Set LACP parameters for the interface
port-priority		Set LACP port priority
<i>port-pri</i>		Enter port priority

Command Mode

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

lacp rapid-transition

lacp rapid-transition | no lacp rapid-transition

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
lacp		Set LACP parameters for the interface
rapid-transition		Optimizes LACP timers for rapid transition from P->I, I->P state

Command Mode

- /exec/configure

lacp rate

lacp rate <rate_type>

Syntax Description

Syntax Description

lacp	Set LACP parameters for the interface
rate	Configure rate at which PDUs are sent by LACP
<i>rate_type</i>	Rate type

Command Mode

- /exec/configure/if-ethernet /exec/configure/if-ethernet-switch /exec/configure/if-ethernet-all /exec/configure/if-ethernet-m /exec/configure/if-ethernet-switch-m /exec/configure/if-remote-ethernet /exec/configure/if-remote-ethernet-switch

lacp rate

[no] lacp rate

Syntax Description

Syntax Description

no Negate a command or set its defaults

lp Set LACP parameters for the interface

rate Configure rate at which PDUs are sent by LACP

Command Mode

- /exec/configure/if-ethernet /exec/configure/if-ethernet-switch /exec/configure/if-ethernet-all /exec/configure/if-ethernet-m /exec/configure/if-ethernet-switch-m /exec/configure/if-remote-ethernet /exec/configure/if-remote-ethernet-switch

lacp system-priority

lacp system-priority <sys-pri> | no lacp system-priority

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
lacp		Set LACP parameters for the interface
system-priority		Set LACP system priority
<i>sys-pri</i>		Enter System Priority

Command Mode

- /exec/configure

last

| last [<lines>]

Syntax Description

Syntax Description

| Pipe command output to filter

last Display last lines

lines (Optional) number of lines to print

Command Mode

- /output

layer2-switched flow monitor input

[no] layer2-switched flow monitor <monitorname> input [sampler <samplername>]

Syntax Description

Syntax Description

layer2-switched	Configure L2 features
flow	NetFlow related commands
monitor	Apply a Flow Monitor to this interface
<i>monitorname</i>	Name of Flow Monitor
input	Apply Flow Monitor on input traffic
sampler	(Optional) Optional Sampler to apply to this Flow Monitor
<i>samplername</i>	(Optional) Name of Sampler

Command Mode

- /exec/configure/if-switching

layer3 peer-router

layer3 peer-router | no layer3 peer-router

Syntax Description

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

Syntax Description		
no		Negate a command or set its defaults
layer3		Enable layer 3 functionality
peer-router		no change for TTL of packets destined to the peer
syslog		print layer 3 protocol syslog
interval		(Optional) how frequent to print the syslog
<i>syslog-interval</i>		(Optional) how many seconds to print a syslog

Command Mode

- /exec/configure/vpc-domain

ldap-search-map

[no] ldap-search-map

Syntax Description

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

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 downtime

[no] ldap-server downtime <i0>

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	ldap-server	Configure LDAP related parameters
	downtime	Global LDAP server downtime period in seconds
	i0	LDAP server downtime period in minutes (default 0 mins -disabled)

Command Mode

- /exec/configure

ldap-server host

```
[no] ldap-server host { <hostname> } [ { enable-ssl | port <i1> [ timeout <i2> ] | rootDN <s0> [ password
{ 7 <s1> { { [ port1 <i3> [ timeout1 <i4> ] } } | [ timeout5 <i9> ] } } | <s2> { { [ port2 <i5> [ timeout2 <i6>
] } } | [ timeout4 <i8> ] } } } | timeout3 <i7> } ]
```

Syntax Description

Syntax Description

no	(Optional) Negate a command or set its defaults
ldap-server	Configure LDAP related parameters
host	LDAP server's DNS name or IP address
<i>hostname</i>	IPV4/IPV6 address or DNS name
enable-ssl	(Optional) LDAP server enable ssl
port	(Optional) LDAP server's port (default: global config)
<i>i1</i>	(Optional) port number
timeout	(Optional) LDAP server timeout period in seconds
<i>i2</i>	(Optional) LDAP server timeout in seconds (default: global config)
rootDN	(Optional) LDAP server root DN
<i>s0</i>	(Optional) root DN
password	(Optional) LDAP server root password
7	(Optional) LDAP root password (encrypted)
<i>s1</i>	(Optional) password (encrypted)
port1	(Optional) LDAP server's port (default: global config)
<i>i3</i>	(Optional) port number
timeout1	(Optional) LDAP server timeout period in seconds
<i>i4</i>	(Optional) LDAP server timeout in seconds (default: global config)
<i>s2</i>	(Optional) password (clear text)
port2	(Optional) LDAP server's port (default: global config)
<i>i5</i>	(Optional) port number
timeout2	(Optional) LDAP server timeout period in seconds
<i>i6</i>	(Optional) LDAP server timeout in seconds (default: global config)
timeout3	(Optional) LDAP server timeout period in seconds

<i>i7</i>	(Optional) LDAP server timeout in seconds (default: global config)
timeout4	(Optional) LDAP server timeout period in seconds
<i>i8</i>	(Optional) LDAP server timeout in seconds (default: global config)
timeout5	(Optional) LDAP server timeout period in seconds
<i>i9</i>	(Optional) LDAP server timeout in seconds (default: global config)

Command Mode

- /exec/configure

ldap-server host test rootDN

```
[no] ldap-server host { <hostipname> } test rootDN <r1> { { [ username <s0> { [ password { [ 7 <s2> | <s1> ] } [ idle-time <i1> ] ] } | [ idle-time <i1> ] ] } } | { [ password { [ 7 <s2> | <s1> ] } [ idle-time <i1> ] ] } | { [ idle-time <i1> ] } }
```

Syntax Description

Syntax Description

<i>username</i>	(Optional) <s0>
no	(Optional) Negate a command or set its defaults
ldap-server	Configure LDAP related parameters
host	LDAP server's IP address
<i>hostipname</i>	IPV4/IPV6 address or DNS name
test	Parameters to send test packets
7	(Optional) LDAP test password (encrypted)
<i>s0</i>	(Optional) user name
password	(Optional) user password in test packets
<i>s1</i>	(Optional) test password
<i>s2</i>	(Optional) test password (encrypted)
rootDN	rootDN in test packets
<i>r1</i>	root DN
idle-time	(Optional) time interval for monitoring the server
<i>i1</i>	(Optional) time period in minutes

Command Mode

- /exec/configure

ldap-server port

[no] ldap-server port <i0>

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	ldap-server	Configure LDAP related parameters
	port	Global LDAP server's port (default 389)
	<i>i0</i>	port number

Command Mode

- /exec/configure

ldap-server timeout

[no] ldap-server timeout <i0>

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	ldap-server	Configure LDAP related parameters
	timeout	Global LDAP server timeout period in seconds
	<i>i0</i>	LDAP server timeout period in seconds (default 5 sec)

Command Mode

- /exec/configure

ldap search-map

[no] ldap search-map <s0>

Syntax Description

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

Syntax Description

| Pipe command output to filter

ks Filter for paging

-d (Optional) dumb terminal

-E (Optional) quit at end of file

Command Mode

- /output

license expiry check_interval

license expiry check_interval <i0>

Syntax Description

Syntax Description		
license		Enter the license configuration mode
expiry		Configure the expiry check interval
check_interval		Configure the expiry check interval
<i>i0</i>		Specify the license expiry check interval in seconds

Command Mode

- /exec

license grace-period

[no] license grace-period

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
license	Modify license features
grace-period	Configure grace period support for licenses

Command Mode

- /exec/configure

license grace-period days

license grace-period days <i0>

Syntax Description

Syntax Description		
license	Enter the license configuration mode	
grace-period	Configure the grace period	
days	Configure the grace period in days	
<i>i0</i>	Number of days	

Command Mode

- /exec

license grace-period seconds

license grace-period seconds <i0>

Syntax Description

Syntax Description		
license	Enter license configuration mode	
grace-period	Configure the grace period	
seconds	Configure the grace period in seconds	
<i>i0</i>	Specify the grace period in seconds	

Command Mode

- /exec

license grace period

license grace period <*i0*>

Syntax Description

Syntax Description	license Enter the license configuration mode
	grace Configure the grace period
	period Specify the grace period in days
	<i>i0</i>

Command Mode

- /exec

license reserve count package module

[no] license reserve count <i0> package <license-feature> module <i1>

Syntax Description

Syntax Description		
	no	(Optional) Negate a command or set its defaults
	license	Display licensing information
	reserve	Reserve the licenses for the specified module
	count	Count of licenses to reserve
	<i>i0</i>	Count of licenses
	package	Name of the license package to reserve
	<i>license-feature</i>	Name of the license package
	module	Module number
	<i>i1</i>	Module number

Command Mode

- /exec/configure

limit-resource m4route-mem maximum equal-to-min

```
{ limit-resource m4route-mem [ minimum { <min> | <min-hi> } ] maximum { <max-lo> | <max> | <max-hi>
| equal-to-min } } | { no limit-resource m4route-mem [ [ minimum { <min> | <min-hi> } ] maximum {
<max-lo> | <max> | <max-hi> | equal-to-min } ] }
```

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
limit-resource	Resource configuration
m4route-mem	set ipv4 route memory limits
minimum	(Optional) minimum route memory to allocate
<i>min</i>	(Optional) minimum route memory value
<i>min-hi</i>	(Optional) minimum route memory value
maximum	maximum route memory to allocate
<i>max-lo</i>	maximum route memory value
<i>max</i>	maximum route memory value
<i>max-hi</i>	maximum route memory value
equal-to-min	maximum value equal to min

Command Mode

- /exec/configure/vdc-template /exec/configure/vdc

limit-resource m6route-mem maximum

```
{ limit-resource m6route-mem [ minimum { <min> | <min-hi> } ] maximum { <max-lo> | <max> | <max-hi>
} } | { no limit-resource m6route-mem [ [ minimum { <min> | <min-hi> } ] maximum { <max-lo> | <max>
| <max-hi> } ] }
```

Syntax Description

Syntax Description

no	Negate a command or set its defaults
limit-resource	Resource configuration
m6route-mem	set ipv6 route memory limits
minimum	(Optional) minimum route memory to allocate
<i>min</i>	(Optional) minimum route memory value
<i>min-hi</i>	(Optional) minimum route memory value
maximum	maximum route memory to allocate
<i>max-lo</i>	maximum route memory value
<i>max</i>	maximum route memory value
<i>max-hi</i>	maximum route memory value

Command Mode

- /exec/configure/vdc-template /exec/configure/vdc

limit-resource module-type

{ limit-resource module-type <card-type> + } | { no limit-resource module-type }

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	limit-resource	Resource configuration
	module-type	Controls which type of modules are allowed in this vdc
	<i>card-type</i>	Allowed module types

Command Mode

- /exec/configure/vdc

limit-resource monitor-session-erspan-dst minimum maximum equal-to-min

```
{ limit-resource monitor-session-erspan-dst minimum <min-val> maximum { <max-val> | equal-to-min } }
| { no limit-resource monitor-session-erspan-dst [ minimum <min-val> maximum { <max-val> | equal-to-min
} ] }
```

Syntax Description

Syntax Description	limit-resource	Resource configuration
	monitor-session-erspan-dst	Monitor erspan destination session
	minimum	minimum monitor erspan-dst session to allocate
	<i>min-val</i>	minimum monitor erspan-dst session value
	maximum	maximum monitor erspan-dst session to allocate
	<i>max-val</i>	maximum monitor erspan-dst session value
	equal-to-min	set maximum value equal to min

Command Mode

- /exec/configure/vdc-template /exec/configure/vdc

limit-resource monitor-session-inband-src minimum maximum equal-to-min

```
{ limit-resource monitor-session-inband-src minimum <min-val> maximum { <max-val> | equal-to-min } }
| { no limit-resource monitor-session-inband-src [ minimum <min-val> maximum { <max-val> | equal-to-min
} ] }
```

Syntax Description

Syntax Description

limit-resource	Resource configuration
monitor-session-inband-src	Monitor inband source
minimum	minimum monitor inband source to allocate
<i>min-val</i>	minimum monitor inband source value
maximum	maximum monitor inband source to allocate
<i>max-val</i>	maximum monitor inband source value
equal-to-min	set maximum value equal to min

Command Mode

- /exec/configure/vdc-template /exec/configure/vdc

limit-resource monitor-session minimum maximum equal-to-min

```
{ limit-resource monitor-session minimum <min-val> maximum { <max-val> | equal-to-min } } | { no
limit-resource monitor-session [ minimum <min-val> maximum { <max-val> | equal-to-min } ] }
```

Syntax Description

Syntax Description	
limit-resource	Resource configuration
monitor-session	Monitor local/erspan-source session
minimum	minimum monitor local session to allocate
<i>min-val</i>	minimum monitor local session value
maximum	maximum monitor local session to allocate
<i>max-val</i>	maximum monitor local session value
equal-to-min	set maximum value equal to min

Command Mode

- /exec/configure/vdc-template /exec/configure/vdc

limit-resource port-channel minimum maximum

limit-resource port-channel minimum <min-val> maximum { <max-val> | equal-to-min } | no limit-resource port-channel [minimum <min-val> maximum { <max-val> | equal-to-min }]

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
limit-resource		Resource configuration
port-channel		set port-channel limits
minimum		minimum port-channels to allocate
<i>min-val</i>		
maximum		maximum port-channels to allocate
<i>max-val</i>		
equal-to-min		set maximum value equal to min

Command Mode

- /exec/configure/vdc-template /exec/configure/vdc

limit-resource u4route-mem maximum equal-to-min

```
{ limit-resource u4route-mem [ minimum { <min-lo> | <min> | <min-hi> } ] maximum { <max-lo> | <max>
| <max-hi> | equal-to-min } } | { no limit-resource u4route-mem [ [ minimum { <min-lo> | <min> | <min-hi>
} ] maximum { <max-lo> | <max> | <max-hi> | equal-to-min } ] }
```

Syntax Description

Syntax Description

no	Negate a command or set its defaults
limit-resource	Resource configuration
u4route-mem	set ipv4 route memory limits
minimum	(Optional) minimum route memory to allocate
<i>min-lo</i>	(Optional) minimum route memory value
<i>min</i>	(Optional) minimum route memory value
<i>min-hi</i>	(Optional) minimum route memory value
maximum	maximum route memory to allocate
<i>max-lo</i>	maximum route memory value
<i>max</i>	maximum route memory value
<i>max-hi</i>	maximum route memory value
equal-to-min	maximum value equal to min

Command Mode

- /exec/configure/vdc-template /exec/configure/vdc

limit-resource u6route-mem maximum equal-to-min

```
{ limit-resource u6route-mem [ minimum { <min-lo> | <min> | <min-hi> } ] maximum { <max-lo> | <max>
| <max-hi> | equal-to-min } } | { no limit-resource u6route-mem [ [ minimum { <min-lo> | <min> | <min-hi>
} ] maximum { <max-lo> | <max> | <max-hi> | equal-to-min } ] }
```

Syntax Description

Syntax Description

no	Negate a command or set its defaults
limit-resource	Resource configuration
u6route-mem	set ipv6 route memory limits
minimum	(Optional) minimum route memory to allocate
<i>min-lo</i>	(Optional) minimum route memory value
<i>min</i>	(Optional) minimum route memory value
<i>min</i>	(Optional) minimum route memory value
<i>min-hi</i>	(Optional) minimum route memory value
maximum	maximum route memory to allocate
<i>max-lo</i>	maximum route memory value
<i>max</i>	maximum route memory value
<i>max-hi</i>	maximum route memory value
equal-to-min	maximum value equal to min

Command Mode

- /exec/configure/vdc-template /exec/configure/vdc

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

Syntax Description		
no		Negate a command or set its defaults
limit-resource		Resource configuration
vlan		set VLAN limits
minimum		minimum VLANs to allocate
<i>min-val</i>		minimum VLANs value
maximum		maximum VLANs to allocate
<i>max-val</i>		maximum VLANs value
equal-to-min		set maximum value equal to min

Command Mode

- /exec/configure/vdc-template /exec/configure/vdc

limit-resource vrf minimum maximum equal-to-min

```
{ limit-resource vrf minimum <number1> maximum { <number2> | equal-to-min } } | { no limit-resource vrf [ minimum <number1> maximum { <number2> | equal-to-min } ] }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
limit-resource		Resource configuration
vrf		set vrf resource limits
minimum		minimum vrf resources to allocate
<i>number1</i>		minimum vrf resource value
maximum		maximum vrf resources to allocate
<i>number2</i>		maximum vrf resource value
equal-to-min		set maximum value equal to min

Command Mode

- /exec/configure/vdc-template /exec/configure/vdc

line console

[no] line console

Syntax Description

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

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

Syntax Description

line Configure a terminal line

vy Virtual terminal line

Command Mode

- /exec/configure

line vty

[no] line vty

Syntax Description

Syntax Description

no Negate a command or set its defaults

line Configure a terminal line

vty Virtual terminal line

Command Mode

- /exec/configure

link-management timers bandwidth

```
[no] link-management timers { bandwidth-hold | periodic-flooding } | link-management timers { bandwidth-hold
<bw_seconds> | periodic-flooding <flood_seconds> }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
link-management		Link Management configuration
timers		Link Management timers configuration
bandwidth-hold		Link Management bandwidth hold timer
<i>bw_seconds</i>		seconds
periodic-flooding		Link Management periodic flooding interval
<i>flood_seconds</i>		seconds [0 to disable, minimum set to 30]

Command Mode

- /exec/configure/te

link debounce

link debounce [time <time_val>] | no link debounce [time <time_val>]

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
link		Configure link
debounce		Configure link debounce timer
time	(Optional)	Link debounce time
<i>time_val</i>	(Optional)	Timer value (in milliseconds)

Command Mode

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

lisp

```
{ lisp-lig | lig } { version | self | self6 | <hostname> | { <eid> | <eid6> } } [ source { <seid> | <seid6> } ] [ to
{ <mr-hostname> | { <mr> | <mr6> } } ] [ count <count> ] [ probe ] [ vrf { <vrf-name> | <vrf-known-name>
} ]
```

Syntax Description

Syntax Description		
<code>lisp-lig</code>		LISP Internet Groper
<code>lig</code>		LISP Internet Groper
<code>eid</code>		LIG on a IPv4 Endpoint ID (EID)
<code>version</code>		Display Internet Draft version lig supports
<code>self</code>		Test if IPv4 EID-prefix registered in mapping database
<code>self6</code>		Test if IPv6 EID-prefix registered in mapping database
<code>hostname</code>		DNS name for Endpoint ID (EID)
<code>source</code>		(Optional) Provide source EID for Map-Request
<code>seid</code>		(Optional) Source IPv4 Endpoint ID (EID)
<code>to</code>		(Optional) Where to send the Map-Request
<code>mr-hostname</code>		(Optional) DNS name for Map-Resolver
<code>mr</code>		(Optional) Map-Resolver IPv4 address to send Map-Request to
<code>count</code>		(Optional) Map-Requests to send before Map-Reply returned
<code>count</code>		(Optional) Number of Map-Requests
<code>probe</code>		(Optional) RLOC-probe each locator
<code>vrf</code>		(Optional) LIGing for specific VRF
<code>vrf-name</code>		(Optional) VRF name
<code>vrf-known-name</code>		(Optional) Known VRF name

Command Mode

- /exec

lisp ddt

{ [no] lisp ddt }

Syntax Description

Syntax Description

no (Optional) Negate a command or set its defaults

ip LISP global configuration commands

dt Configures a LISP-DDT mapping system functionality

Command Mode

- /exec/configure /exec/configure/vrf

lisp ddt authoritative-prefix eid-prefix

```
{ [ no ] lisp ddt authoritative-prefix eid-prefix { <eid-prefix> | <eid-prefix6> } } | { [ no ] lisp ddt
authoritative-prefix instance-id <iid> [ eid-prefix { <eid-prefix> | <eid-prefix6> } ] } | { [ no ] lisp ddt
authoritative-prefix <star> } | { [ no ] lisp ddt authoritative-prefix instance-id { <iidp> | <range> } }
```

Syntax Description

Syntax Description

no	(Optional) Negate a command or set its defaults
lisp	LISP global configuration commands
ddt	Configure LISP-DDT parameters
authoritative-prefix	Configure EID-prefix this LISP-DDT node is authoritative for
instance-id	Instance ID of VPN for EID-prefix
<i>iid</i>	Instance-ID value
star	Authoritative prefix on root for all address space
<i>iidp</i>	Instance-ID in prefix format
<i>range</i>	Instance-ID range in 'x-y' format where y > x
eid-prefix	Authoritative IPv4 or IPv6 EID-prefix
<i>eid-prefix</i>	EID-prefix in IPv4 slash format

Command Mode

- /exec/configure /exec/configure/vrf

lisp ddt delegate eid-prefix

```
{ [ no ] lisp ddt delegate { <node> | <node6> } { eid-prefix { <eid-prefix> | <eid-prefix6> } } [ priority
<priority> weight <weight> ] [ public-key <key> ] [ map-server ] } | { [ no ] lisp ddt delegate { <node> |
<node6> } instance-id <iid> [ eid-prefix { <eid-prefix> | <eid-prefix6> } ] [ priority <priority> weight <weight>
] [ public-key <key> ] [ map-server ] } | { [ no ] lisp ddt delegate { <node> | <node6> } instance-id { <iidp>
| <range> } [ priority <priority> weight <weight> ] [ public-key <key> ] [ map-server ] }
```

Syntax Description

Syntax Description

<i>no</i>	(Optional) Negate a command or set its defaults
<i>lisp</i>	LISP global configuration commands
<i>ddt</i>	Configure LISP-DDT parameters
<i>delegate</i>	Configure LISP-DDT child in delegation hierarchy
<i>node</i>	IPv4 locator address of DDT node
<i>instance-id</i>	Instance ID of VPN for EID-prefix
<i>iid</i>	Instance-ID value
<i>iidp</i>	Instance-ID in prefix format
<i>range</i>	Instance-ID range in 'x-y' format where y > x
<i>eid-prefix</i>	Child delegation for IPv4 or IPv6 EID-prefix
<i>eid-prefix</i>	EID-prefix in IPv4 slash format
<i>priority</i>	(Optional) Configures which Locators from a set are preferred
<i>priority</i>	(Optional) Lower priority Locator takes preference
<i>weight</i>	(Optional) Traffic load-spreading among Locators
<i>weight</i>	(Optional) Specified in a percentage from 0 to 100
<i>map-server</i>	(Optional) Child delegate is a Map-Server
<i>public-key</i>	(Optional) DDT child's public key this DDT-node supplies for referrals
<i>key</i>	(Optional) RSA public-key

Command Mode

- /exec/configure /exec/configure/vrf

lisp ddt inherit-referrals

```
{ [ no ] lisp ddt inherit-referrals }
```

Syntax Description

Syntax Description		
	no	(Optional) Negate a command or set its defaults
	lisp	LISP global configuration commands
	ddt	Configure LISP-DDT parameters
	inherit-referrals	Inherit map-server referrals from parent DDT-node

Command Mode

- /exec/configure /exec/configure/vrf

lisp ddt map-server-peer eid-prefix

```
{ [ no ] lisp ddt map-server-peer { <node> | <node6> } { eid-prefix { <eid-prefix> | <eid-prefix6> } } [ priority <priority> weight <weight> ] [ public-key <key> ] } | { [ no ] lisp ddt map-server-peer { <node> | <node6> } instance-id <iid> [ eid-prefix { <eid-prefix> | <eid-prefix6> } ] [ priority <priority> weight <weight> ] [ public-key <key> ] } | { [ no ] lisp ddt map-server-peer { <node> | <node6> } instance-id { <iidp> | <range> } [ priority <priority> weight <weight> ] [ public-key <key> ] }
```

Syntax Description

Syntax Description

<i>no</i>	(Optional) Negate a command or set its defaults
<i>lisp</i>	LISP global configuration commands
<i>ddt</i>	Configure LISP-DDT parameters
<i>map-server-peer</i>	Configure other map-server peers
<i>node</i>	IPv4 locator address of DDT node
<i>instance-id</i>	Instance ID of VPN for EID-prefix
<i>iid</i>	Instance-ID value
<i>iidp</i>	Instance-ID in prefix format
<i>range</i>	Instance-ID range in 'x-y' format where y > x
<i>eid-prefix</i>	Child delegation for IPv4 or IPv6 EID-prefix
<i>eid-prefix</i>	EID-prefix in IPv4 slash format
<i>priority</i>	(Optional) Configures which Locators from a set are preferred
<i>priority</i>	(Optional) Lower priority Locator takes preference
<i>weight</i>	(Optional) Traffic load-spreading among Locators
<i>weight</i>	(Optional) Specified in a percentage from 0 to 100
<i>public-key</i>	(Optional) DDT child's public key this DDT-node supplies for referrals
<i>key</i>	(Optional) RSA public-key

Command Mode

- /exec/configure /exec/configure/vrf

lisp ddt private-key

[no] lisp ddt private-key <key>

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
lisp	LISP global configuration commands	
ddt	Configure LISP-DDT parameters	
private-key	Configures LISP-DDT private-key for signing Map-Referral messages	
key	RSA private-key	

Command Mode

- /exec/configure /exec/configure/vrf

lisp ddt root

[no] lisp ddt root { <root> | <root6> } [public-key <key>]

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
lisp		LISP global configuration commands
ddt		Configure LISP-DDT parameters
root		Configure LISP-DDT root of tree in Map-Resolver
root		IPv4 locator address of DDT root
public-key	(Optional)	DDT root's public key used to verify signed Map-Referrals
key	(Optional)	RSA public-key

Command Mode

- /exec/configure /exec/configure/vrf

lisp dont-prime-map-cache

{ [no] lisp dont-prime-map-cache }

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
lisp	LISP global configuration commands
dont-prime-map-cache	Do not send Map-Requests for arbitrary EIDs to prime map-cache

Command Mode

- /exec/configure /exec/configure/vrf

lisp dynamic-eid

```
{ [ no ] lisp dynamic-eid <dyn-eid-name> }
```

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	lisp	LISP global configuration commands
	dynamic-eid	Configure dynamic-EIDs for roaming
	<i>dyn-eid-name</i>	Name your dynamic-EID

Command Mode

- /exec/configure

lisp dynamic-eid

```
{ [ no ] lisp dynamic-eid <dyn-eid-name> }
```

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	lisp	LISP global configuration commands
	dynamic-eid	Configure dynamic-EIDs for roaming
	<i>dyn-eid-name</i>	Name your dynamic-EID

Command Mode

- /exec/configure/vrf

lisp explicit-locator-path

```
{ [ no ] lisp explicit-locator-path <elp-name> }
```

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	lisp	LISP global configuration commands
	explicit-locator-path	Configures a LISP Explicit Locator Path (ELP)
	<i>elp-name</i>	Name of LISP ELP

Command Mode

- /exec/configure

lisp explicit-locator-path

[no] lisp explicit-locator-path <elp-name>

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
lisp		LISP global configuration commands
explicit-locator-path		Configures a LISP Explicit Locator Path (ELP)
<i>elp-name</i>		Name of LISP ELP

Command Mode

- /exec/configure/vrf

lisp extended-subnet-mode

{ [no] lisp extended-subnet-mode }

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
lisp	LISP interface configuration commands
extended-subnet-mode	Create dynamic-EID state when EIDs reside on their home subnet

Command Mode

- /exec/configure/if-igp

lisp geo-coordinates

[no] lisp geo-coordinates <latitude> <longitude> [<altitude>]

Syntax Description

Syntax Description

no	(Optional) Negate a command or set its defaults
lisp	LISP global configuration commands
geo-coordinates	Configure Geo Coordinates for this router
<i>latitude</i>	Latitude in DMS format: 'degree-min-sec-N' or 'degree-min-sec-S'
<i>longitude</i>	Longitude in DMS format: 'degree-min-sec-E' or 'degree-min-sec-W' format
<i>altitude</i>	(Optional) Altitude in meters above sea-level

Command Mode

- /exec/configure /exec/configure/vrf

lisp ignore-smr

[no] lisp ignore-smr

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
lisp	LISP global configuration commands
ignore-smr	Do not respond to SMRs when no map-cache entry exists

Command Mode

- /exec/configure

lisp instance-id

[no] lisp instance-id <iid>

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	lisp	LISP global configuration commands
	instance-id	Configures Instance-ID for global data-mappings
	<i>iid</i>	24-bit instance-ID value

Command Mode

- /exec/configure /exec/configure/vrf

lisp internal event-history size

[no] lisp internal event-history <lisp-event-hist> size <size_in_text>

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
lisp	LISP debug commands	
internal	LISP internal configuration commands	
event-history	Configure LISP event log	
<i>lisp-event-hist</i>	Configure LISP event log	
size	Size of buffer	
<i>size_in_text</i>	Buffer size	

Command Mode

- /exec/configure

lisp loc-reach-algorithm

```
[no] lisp loc-reach-algorithm { count-tcp | echo-nonce | { rloc-probing [ map-request-on-failure ] } }
```

Syntax Description

Syntax Description

no	(Optional) Negate a command or set its defaults
lisp	LISP global configuration commands
loc-reach-algorithm	Configure locator reachability algorithm
count-tcp	Count TCP SYNs and ACKs
echo-nonce	Request for nonce to echo back in data-plane
rloc-probing	Probe each high-priority RLOC with Map-Request as last resort
map-request-on-failure	(Optional) Send Map-Request to database mapping system when any RLOC for a map-cache entry becomes RLOC-probing unreachable

Command Mode

- /exec/configure /exec/configure/vrf

lisp merge-registrations site-id

[no] lisp merge-registrations site-id <site-id>

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
lisp	LISP global configuration commands	
merge-registrations	ETRs merge registrations from Map-Notify messages	
site-id	Configure site-id value for each xTR at site	
<i>site-id</i>	Site-ID to group xTRs together	

Command Mode

- /exec/configure /exec/configure/vrf

lisp mobility

[no] lisp mobility <dyn-eid-name>

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
lisp		LISP interface configuration commands
mobility		Configures to allow EID mobility on interface
<i>dyn-eid-name</i>		Name of the dynamic-EID to use

Command Mode

- /exec/configure/if-igp

lisp mobility test-liveness

[no] lisp mobility test-liveness

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
lisp	LISP interface configuration commands
mobility	Configures to allow EID mobility on interface
test-liveness	Ping discovered dyn-eid hosts on this interface periodically to determine host liveness

Command Mode

- /exec/configure/if-igp

lisp mtu

[no] lisp mtu <mtu>

Syntax Description

Syntax Description

no (Optional) Negate a command or set its defaults

lisp LISP global configuration commands

mtu Configure the Max MTU value that LISP path will support

mtu mtu

Command Mode

- /exec/configure

lisp security

[no] lisp security [strong]

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	lisp	LISP global configuration commands
	security	Configure LISP-SEC on ITR or PITR
	strong	(Optional) Reject Map-Replies without LISP-SEC signatures included

Command Mode

- /exec/configure /exec/configure/vrf

lisp site

```
{ [ no ] lisp site <site-name> }
```

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
lisp	LISP global configuration commands
site	Configures LISP sites in a map-server
<i>site-name</i>	Name your LISP site

Command Mode

- /exec/configure

lisp site

```
{ [ no ] lisp site <site-name> }
```

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
lisp	LISP global configuration commands
site	Configures LISP sites in a map-server
<i>site-name</i>	Name your LISP site

Command Mode

- /exec/configure/vrf

lisp smr-local-locators

[no] lisp smr-local-locators

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
lisp	LISP global configuration commands
smr-local-locators	Send SMR to all locators for in local site

Command Mode

- /exec/configure

lisp smr-locators

[no] lisp smr-locators

Syntax Description

Syntax Description

no	(Optional) Negate a command or set its defaults
lisp	LISP global configuration commands
smr-locators	Send SMR to all RLOCs in locator-set for map-cache entry

Command Mode

- /exec/configure

lisp to

```
{ lisp-rig | rig } [ instance-id <iid> ] { <hostname> | { <eid> | <eid6> } } to { <ddt-hostname> | { <ddt> | <ddt6> } }
```

Syntax Description

Syntax Description		
<i>lisp-rig</i>		LISP-DDT Referral Internet Groper
<i>rig</i>		LISP-DDT Referral Internet Groper
<i>instance-id</i>	(Optional)	Instance-ID of VPN EID resides in
<i>iid</i>		(Optional) 24-bit instance-ID value
<i>eid</i>		RIG on a IPv4 Endpoint ID (EID)
<i>hostname</i>		DNS name for Endpoint ID (EID)
<i>to</i>		Where to send the Map-Request
<i>ddt-hostname</i>		DNS name for DDT-node
<i>ddt</i>		DDT-node IPv4 address to send Map-Request to

Command Mode

- /exec

list

list [<index>]

Syntax Description

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

list

list

Syntax Description

Syntax Description

✎ Re-list all of the attribute list entries

Command Mode

- /exec/configure/te/lsp-attr

listobject-boolean not

listobject-boolean <object-id> not

Syntax Description

Syntax Description	listobject-boolean	Configure Object as member of tracking list
	<i>object-id</i>	Tracked object
	not	Negate Up status

Command Mode

- /exec/configure/tr-list-bool

listobject-weight weight threshold-weight

```
listobject-weight { <object-id> weight <weight-val> } | threshold-weight { weight-thresh { weightup
<up-weight> [ weightdown <down-weight> ] | weightdown <down-weight> [ weightup <up-weight> ] } } |
no threshold-weight weight-thresh
```

Syntax Description

Syntax Description

no	Negate a command or set its defaults
listobject-weight	Configure Object as member of tracking list
<i>object-id</i>	Tracked Object
weight	Assign a weight to object
<i>weight-val</i>	Assign a weight to object
threshold-weight	Threshold parameters
weight-thresh	Weight threshold
weightup	Up threshold
<i>up-weight</i>	Up threshold weight
weightdown	(Optional) Down threshold
<i>down-weight</i>	(Optional) Down threshold weight

Command Mode

- /exec/configure/tr-list-thrw

listobject

[no] listobject <object-id>

Syntax Description

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 | system-capabilities | system-description | system-name | dcbxp } }

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
lldp	Configure global LLDP parameters	
holdtime	Specify the holdtime (in sec) to be sent in packets	
<i>i0</i>	holdtime in sec	
reinit	Delay (in sec) for LLDP initialisation on any interface	
<i>i1</i>	reinit in sec	
timer	Specify the rate at which LLDP packets are sent (in sec)	
<i>i2</i>	rate of packets in sec	
portid-subtype	config portid subtype for LLDP TLV and SNMP MIBs	
<i>i3</i>	0: long interface name (default), 1: short interface name	
tlv-select	Selection of LLDP to send	
management-address	Management Address TLV	
port-description	Port Description TLV	
port-vlan	Port Vlan ID TLV	
system-capabilities	System Capabilities TLV	
system-description	System Description TLV	
system-name	System Name TLV	
dcbxp	DCBXP TLVs	

Command Mode

- /exec/configure

lldp eee rx_wake_time

[no] lldp eee { rx_wake_time <i0> | tx_wake_time <i1> }

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
lldp	Configure LLDP parameters	
eee	Configure LLDP EEE parameters	
rx_wake_time	Specify the EEE rx wake time	
<i>i0</i>	EEE rx wake time	
tx_wake_time	Specify the EEE tx wake time	
<i>i1</i>	EEE tx wake time	

Command Mode

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

lldp receive

[no] lldp receive

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
lldp	Configure Interface LLDP parameters
receive	Enable LLDP reception on interface

Command Mode

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

lldp tlv-select eee

[no] lldp tlv-select eee

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
lldp	Configure Interface LLDP parameters
tlv-select	Configure EEE parameter
eee	Enable/Disable LLDP EEE TLV

Command Mode

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

lldp tlv-select management-address v4

[no] lldp tlv-select management-address { v4 | v6 }

Syntax Description

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

Syntax Description		
no	(Optional) Negate a command or set its defaults	
lldp	Configure Interface LLDP parameters	
tlv-set	LLDP TLV configuration for interface	
management-address	Management address to be sent in management-tlv of LLDPDU.	
<i>ip-addr</i>	IP address in dotted decimal format i.i.i.i	

Command Mode

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

lldp tlv-set management-address ipv6

[no] lldp tlv-set management-address <ipv6-addr> ipv6

Syntax Description

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

Syntax Description	
no	(Optional) Negate a command or set its defaults
lldp	Configure Interface LLDP parameters
tlv-set	LLDP TLV configuration for interface
vlan	VLAN-id whose SVI IP address should be used as management address in management-tlv of LLDPDU. Default is native VLAN.
<i>vlan-id</i>	(Optional) vlan-id within range of 1-4094

Command Mode

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

lldp transmit

[no] lldp transmit

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
lldp	Configure Interface LLDP parameters
transmit	Enable LLDP transmission on interface

Command Mode

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

load-balance

```
[no] load-balance { [ method { src { ip | ip-l4port <src-protocol> range <src-x> <src-y> } | dst { ip-dst | ip-l4port <dst-protocol> range <dst-x> <dst-y> } } | buckets <num> | mask-position <mask> ] + }
```

Syntax Description

Syntax Description

no	(Optional) Negate a command or set its defaults
load-balance	ITD Loadbalance
method	(Optional) ITD Loadbalance method
src	(Optional) Source based parameters
dst	(Optional) Destination based parameters
ip	(Optional) IP
ip-l4port	(Optional) IP and L4 port
<i>src-protocol</i>	(Optional) Protocol
range	(Optional) Match only packets in the range of port numbers
<i>src-x</i>	(Optional)
<i>src-y</i>	(Optional)
ip-dst	(Optional) IP
<i>dst-protocol</i>	(Optional) Protocol
<i>dst-x</i>	(Optional)
<i>dst-y</i>	(Optional)
buckets	(Optional) Used to create the buckets for traffic distribution, and it should be in powers of 2
<i>num</i>	(Optional) Loadbalance bucket number
mask-position	(Optional) Loadbalance mask position
<i>mask</i>	(Optional) Loadbalance mask position number range 0-31 for IPv4 and 0-127 for IPv6

Command Mode

- /exec/configure/itd

load-balance

```
[no] load-balance { [ method { src { ip | ip-l4port <src-protocol> range <src-x> <src-y> } | dst { ip-dst | ip-l4port <dst-protocol> range <dst-x> <dst-y> } } | buckets <num> | mask-position <mask> ] + }
```

Syntax Description

Syntax Description

no	(Optional) Negate a command or set its defaults
load-balance	ITD Loadbalance
method	(Optional) ITD Loadbalance method
src	(Optional) Source based parameters
dst	(Optional) Destination based parameters
ip	(Optional) IP
ip-l4port	(Optional) IP and L4 port
<i>src-protocol</i>	(Optional) Protocol
range	(Optional) Match only packets in the range of port numbers
<i>src-x</i>	(Optional)
<i>src-y</i>	(Optional)
ip-dst	(Optional) IP
<i>dst-protocol</i>	(Optional) Protocol
<i>dst-x</i>	(Optional)
<i>dst-y</i>	(Optional)
buckets	(Optional) Used to create the buckets for traffic distribution, and it should be in powers of 2
<i>num</i>	(Optional) Loadbalance bucket number
mask-position	(Optional) Loadbalance mask position
<i>mask</i>	(Optional) Loadbalance mask position number range 0-31 for IPv4 and 0-127 for IPv6

Command Mode

- /exec/configure/itd

load-balancing

load-balancing <load-bal> | no load-balancing [<load-bal>]

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	load-balancing	Load balancing method
	<i>load-bal</i>	Load balancing method

Command Mode

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

load-interval

load-interval <interval> | no load-interval [<interval1>]

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
load-interval		Specify interval for load calculation for an interface
<i>interval</i>		Load interval delay in seconds
<i>interval1</i>	(Optional)	Load interval delay in seconds

Command Mode

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

load-interval

load-interval <interval> | no load-interval [<interval1>]

Syntax Description

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 (Optional) Load interval delay in seconds

Command Mode

- /exec/configure/if-vlan-common

load-interval counter

load-interval counter <counter_val> <interval> | no load-interval counter <counter_val> [<interval1>]

Syntax Description

Syntax Description

no	Negate a command or set its defaults
load-interval	Specify interval for load calculation for an interface
counter	Specify counter for this load interval
<i>counter_val</i>	Specify counter for this load interval
<i>interval</i>	Load interval delay in seconds
<i>interval1</i>	(Optional) Load interval delay in seconds

Command Mode

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

load-interval counter

load-interval counter <counter_val> <interval> | no load-interval counter <counter_val> [<interval1>]

Syntax Description

Syntax Description

no	Negate a command or set its defaults
load-interval	Specify interval for load calculation for an interface
counter	Specify counter for this load interval
<i>interval</i>	Load interval delay in seconds
<i>counter_val</i>	Specify counter for this load interval
<i>interval1</i>	(Optional) Load interval delay in seconds

Command Mode

- /exec/configure/if-vlan-common

load

```
load <uri0> [ <s0> ]
```

Syntax Description

Syntax Description

load Load system image

uri0 Enter image URI

s0 (Optional)
Options

Command Mode

- /exec

load

load <uri0>

Syntax Description

Syntax Description

load Load system image

uri0 Enter image URI

Command Mode

- /exec

load

```
load <uri0> [ <s0> ]
```

Syntax Description

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

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

Syntax Description

no	Negate a command or set its defaults
default	Inherit values from a peer template
local-as	Specify the local-as number for the eBGP neighbor
<i>asn</i>	Autonomous System Number
no-prepend	(Optional) Do not prepend the local-as number to updates from the eBGP neighbor
replace-as	(Optional) Prepend only the local-as number to updates to eBGP neighbor
dual-as	(Optional) Connect using either the local-as number or the real as

Command Mode

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

local-label prefix

```
[no] { [ vrf { <vrf-name> | <vrf-known-name> } ] local-label <static-inlabel> prefix { <prefix> <mask> | <prefix-mask> } }
```

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
vrf	(Optional)	VPN Routing/Forwarding instance name
<i>vrf-name</i>	(Optional)	VRF name
<i>vrf-known-name</i>	(Optional)	Known VRF name
local-label		Configure local label assignment and forwarding
<i>static-inlabel</i>		Label Value
prefix		For a given prefix
<i>prefix</i>		Destination prefix
<i>mask</i>		Destination prefix mask
<i>prefix-mask</i>		Destination prefix/mask

Command Mode

- /exec/configure/mpls_static/ipv4

local-label prefix

```
[no] { [ vrf { <vrf-name> | <vrf-known-name> } ] local-label <static-inlabel> prefix { <ipv6-prefix-mask> } }
```

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
vrf	(Optional)	VPN Routing/Forwarding instance name
<i>vrf-name</i>	(Optional)	VRF name
<i>vrf-known-name</i>	(Optional)	Known VRF name
local-label		Configure local label assignment and forwarding
<i>static-inlabel</i>		Label Value
prefix		For a given prefix

Command Mode

- /exec/configure/mpls_static/ipv6

locator-led

[no] locator-led { chassis | module <module> | fan <fan_num> }

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
locator-led	blink locator led on device
chassis	blink chassis led
module	blink module led
<i>module</i>	please enter the module number
fan	blink Fan led
<i>fan_num</i>	fan number

Command Mode

- /exec

lockdown

[no] lockdown

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
lockdown	Lockdown the LSP--disable reoptimization

Command Mode

- /exec/configure/te/lsp-attr

log-adjacency-changes

[no] log-adjacency-changes [detail]

Syntax Description

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

Syntax Description	no	(Optional) Negate a command or set its defaults
	log-adjacency-changes	Log changes in adjacency state

Command Mode

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

log-adjacency-changes

{ [no] log-adjacency-changes } | { [no] [eigrp] log-neighbor-changes }

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
eigrp	(Optional)	EIGRP router configuration commands
log-adjacency-changes		Log changes in adjacency state
log-neighbor-changes	Enable/Disable	IP-EIGRP neighbor logging

Command Mode

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

log-adjacency-changes

[no] log-adjacency-changes

Syntax Description

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

Syntax	Description
no	(Optional) Negate a command or set its defaults
log-adjacency-changes	Log changes in adjacency state
detail	(Optional) Notify all state changes

Command Mode

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

log-event-type

[no] [eigrp] log-event-type [dual] [xmit] [transport]

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
eigrp	(Optional)	EIGRP router configuration commands
log-event-type		Set event types logged
dual	(Optional)	Log DUAL events
xmit	(Optional)	Log transmission events
transport	(Optional)	Log transport events

Command Mode

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

log-neighbor-changes

[no] log-neighbor-changes

Syntax Description

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

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

Syntax Description		
no		Negate a command or set its defaults
eigrp		(Optional) EIGRP router configuration commands
log-neighbor-warnings		Enable/Disable IP-EIGRP neighbor warnings
<i>interval</i>		(Optional) Neighbor warning interval in seconds

Command Mode

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

logging

```
[no] logging { lsp { path-errors | preemption | reservation-errors | setups | teardowns } | tunnel { lsp-selection | path change } } | logging { lsp { path-errors | preemption | reservation-errors | setups | teardowns } | tunnel { lsp-selection | path change } }
```

Syntax Description

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

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

Syntax Description

logging Modify message logging facilities

abort Flushes cached data without committing and releases the lock

Command Mode

- /exec/configure

logging clear_console

logging clear_console

Syntax Description

Syntax Description		
	logging	Exec logging commands
	clear_console	Clear Console

Command Mode

- /exec

logging console

[no] logging console [<i0>]

Syntax Description

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 debug

logging debug

Syntax Description

Syntax Description

logging Exec logging
commands

debug Debug logging

Command Mode

- /exec

logging distribute

[no] logging distribute

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	logging	Modify message logging facilities
	distribute	Enables/disables fabric distribution using cfs.

Command Mode

- /exec/configure

logging drop threshold

logging drop { threshold-packets <threshold-in-packets> | threshold-bytes <threshold-in-bytes> } [level <level-value>]

Syntax Description

Syntax Description

logging	set logging for copp class
drop	logging for copp drops
threshold-packets	threshold value for dropped packets
threshold-bytes	threshold value for dropped bytes
level	(Optional) syslog level
<i>level-value</i>	(Optional) specify the logging level between 1-7

Command Mode

- /exec/configure/pmap/class

logging drop threshold

```
[no] logging drop { threshold-packets <threshold-in-packets> | threshold-bytes <threshold-in-bytes> } [ level <level-value> ]
```

Syntax Description

Syntax Description

no	Negate a command or set its defaults
logging	set logging for copp class
drop	logging for copp drops
threshold-packets	threshold value for dropped packets
threshold-bytes	threshold value for dropped bytes
level	(Optional) syslog level
<i>level-value</i>	(Optional) specify the logging level between 1-7

Command Mode

- /exec/configure/pmap/class

logging event link enable

[no] logging event { link-status | trunk-status } { enable | default }

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
logging	Configure logging for interface
event	Interface events
link-status	UPDOWN and CHANGE messages
trunk-status	TRUNK status messages
enable	To enable logging overriding port level configuration
default	default logging configuration used by interfaces not explicitly configured

Command Mode

- /exec/configure

logging event port link-status

logging event port link-status

Syntax Description

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

Syntax Description	
no	Negate a command or set its defaults
logging	Configure logging for interface
event	Interface events
port	Port level events
link-status	UPDOWN and CHANGE messages

Command Mode

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

logging event port link-status

logging event port link-status [default] | no logging event port link-status

Syntax Description

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-port-channel /exec/configure/if-ether-sub /exec/configure/if-port-channel-sub /exec/configure/if-gig-ether-sub /exec/configure/if-loopback /exec/configure/if-remote-ethernet-sub /exec/configure/if-ether-sub-p2p

logging event port link-status default

logging event port link-status default

Syntax Description

Syntax Description	logging	Configure logging for interface
	event	Interface events
	port	Port level events
	link-status	UPDOWN and CHANGE messages
	default	Use the global default value

Command Mode

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

logging event port trunk-status

logging event port trunk-status

Syntax Description

Syntax Description		
logging	Configure logging for interface	
event	Interface events	
port	Port level events	
trunk-status	TRUNK status messages	

Command Mode

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

logging event port trunk-status

[no] logging event port trunk-status

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
logging		Configure logging for interface
event		Interface events
port		Port level events
trunk-status		TRUNK status messages

Command Mode

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

logging event port trunk-status default

logging event port trunk-status default

Syntax Description

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

Syntax Description	no	(Optional) Negate a command or set its defaults
	logging	Enable logging
	flow-mod	Enable logging for flow-modify

Command Mode

- /exec/configure/openflow/switch

logging flow-mod

[no] logging flow-mod

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
logging	Enable logging
flow-mod	Enable logging for flow-modify

Command Mode

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

logging flush

logging flush

Syntax Description

Syntax Description	
logging	Exec logging commands
flush	Flushing logging

Command Mode

- /exec

logging invalid-username

[no] logging invalid-username

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
logging	One Platform	logging
invalid-username	Display invalid usernames in ONE-P	log messages

Command Mode

- /exec/configure/onep

logging level

[no] logging level { { ipv6 icmp } | icmpv6 } <level>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
ipv6	Configure IPv6 features
icmp	ICMPv6 Commands
icmpv6	ICMPv6 Commands
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> ] | uucp [ <i20> ] } }
```

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
auth	Set level for Authorization System
<i>i1</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
authpriv	Set level for Authorization (Private) system
<i>i2</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
cron	Set level for Cron/at facility
<i>i3</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
daemon	Set level for System daemons
<i>i4</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
ftp	Set level for File Transfer System
<i>i5</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
kernel	Set level for kernel
<i>i6</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
local0	Set level for Local use daemons
<i>i7</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
local1	Set level for Local use daemons
<i>i8</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
local2	Set level for Local use daemons
<i>i9</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
local3	Set level for Local use daemons

<i>i10</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
local4	Set level for Local use daemons
<i>i11</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
local5	Set level for Local use daemons
<i>i12</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
local6	Set level for Local use daemons
<i>i13</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
local7	Set level for Local use daemons
<i>i14</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
lpr	Set level for Line Printer System
<i>i15</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
mail	Set level for Mail system
<i>i16</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
news	Set level for USENET news
<i>i17</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
syslog	Set level for Internal Syslog Messages
<i>i18</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
user	Set level for User Process
<i>i19</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
uucp	Set level for Unix-to-Unix copy system
<i>i20</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level

[no] logging level { { otv isis } | isis_otv } <level>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
otv	Set syslog filter level for OTV
isis	Set syslog filter level for IS-IS
isis_otv	Show OTV ISIS logging configuration
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 } <i></i>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
xml	xml agent
server	xml agent server
xmlma	xml master agent. Same as combination of keywords xml server
<i>iO</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level aaa

logging level aaa <i0> | no logging level aaa [<i0>]

Syntax Description

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 aclmgr

[no] logging level aclmgr <i0>

Syntax Description

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

Syntax Description	no	(Optional) Negate a command or set its defaults
	logging	Modify message logging facilities
	level	Facility parameter for syslog messages
	adbm	Set level for adbm syslog messages
	<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level adjmgr

[no] logging level adjmgr <level>

Syntax Description

Syntax Description	<i>no</i> (Optional) Negate a command or set its defaults
	<i>logging</i> Modify message logging facilities
	<i>level</i> Facility parameter for syslog messages
	<i>adjmgr</i> Set syslog filter level for Adjacency Manager
	<i>level</i> 0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level all

{ logging level { all <i0> } | no logging level { all [<i0>] } }

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	logging	Modify message logging facilities
	level	Facility parameter for syslog messages
	all	Set level for all facilities
	<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level amt

[no] logging level amt <level>

Syntax Description

Syntax Description	<i>no</i> (Optional) Negate a command or set its defaults
	<i>logging</i> Modify message logging facilities
	<i>level</i> Facility parameter for syslog messages
	<i>amt</i> Set syslog filter level for AMT
	<i>level</i> 0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level arp

```
{ logging level arp <level> } | { no logging level arp [ <level> ] }
```

Syntax Description

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

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 bfd

[no] logging level bfd <i0>

Syntax Description

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

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 <i>i0</i>

Syntax Description

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

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

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

Syntax Description	no	(Optional) Negate a command or set its defaults
	logging	Modify message logging facilities
	level	Facility parameter for syslog messages
	capability	Set syslog level for mig utils daemon
	<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level cdp

logging level cdp <i0> | no logging level cdp [<i0>]

Syntax Description

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 cert

[no] logging level { cert-enroll <i0> | cert_enroll <i1> }

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
cert-enroll	Cert-enroll syslog level
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
cert_enroll	Cert-enroll syslog level
<i>i1</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level cfs

[no] logging level cfs <i0>

Syntax Description

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

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

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

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

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

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

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 device_test

[no] logging level device_test <i0>

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	logging	Modify message logging facilities
	level	Facility parameter for syslog messages
	device_test	Set level for GOLD Device Test syslog messages
	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 <i>i0</i>

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	logging	Modify message logging facilities
	level	Facility parameter for syslog messages
	dhclient	Set level for dhcp client syslog messages
	<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level dhcp_snoop

logging level dhcp_snoop <level> | no logging level dhcp_snoop [<level>]

Syntax Description

Syntax Description

no	Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
dhcp_snoop	Set level for dhcp snoop syslog messages
<i>level</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level diagclient

[no] logging level diagclient <i0>

Syntax Description

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

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

logging level dot1x <i0> | no logging level dot1x [<i0>]

Syntax Description

Syntax Description

no 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 eigrp

[no] logging level eigrp [<eigrp-ptag>] <level>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
eigrp	Set syslog filter level for EIGRP
<i>eigrp-ptag</i>	(Optional) Process tag
<i>level</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level eltm

logging level eltm <i0> | no logging level eltm

Syntax Description

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 ethdstats

[no] logging level { ethdstats <i0> | eth_dstats <i0> }

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	logging	Modify message logging facilities
	level	Facility parameter for syslog messages
	ethdstats	delta statistics syslog level
	eth_dstats	delta statistics syslog level
	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

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

Syntax Description	
no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
ethpm	Set level for ethpm syslog messages
link-up	Configure logging level for link up syslog messages
link-down	Configure logging level for link down syslog messages
<i>level</i>	Logging Level

Command Mode

- /exec/configure

logging level evb

[no] logging level evb <level>

Syntax Description

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

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 <i>i0</i>

Syntax Description

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

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

Syntax Description	
no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
fabric	Fabric
forwarding	Fabric Forwarding Protocol: Host Mobility Manager (HMM)
<i>level</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level feature-mgr

{ logging level feature-mgr <i0> | no logging level feature-mgr [<i0>] }

Syntax Description

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

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 glbp

[no] logging level glbp <*i0*>

Syntax Description

Syntax Description	no (Optional) Negate a command or set its defaults
	logging Modify message logging facilities
	level Facility parameter for syslog messages
	glbp Set level for glbp syslog messages
	<i>i0</i> 0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level gpixm

[no] logging level gpixm <i0>

Syntax Description

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 hsrp

[no] logging level hsrp <i0>

Syntax Description

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 igmp

[no] logging level [ip] igmp <level>

Syntax Description

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 im

[no] logging level { im <i0> | ifmgr <i0> }

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	logging	Modify message logging facilities
	level	Facility parameter for syslog messages
	im	Set level for im syslog messages
	ifmgr	Set level for im syslog messages
	i0	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

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

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 msdp

[no] logging level ip msdp <level>

Syntax Description

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
msdp	Set syslog filter level for MSDP
<i>level</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level ip pim

[no] logging level ip pim <level>

Syntax Description

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

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

Syntax Description	no	(Optional) Negate a command or set its defaults
	logging	Modify message logging facilities
	level	Facility parameter for syslog messages
	ip	
	sla	Service Level Agreement (SLA)
	sender	Set level for sla-sender syslog messages
	<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level ipconf

[no] logging level ipconf { ipv6 <i0> | <i1> }

Syntax Description

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 ipv6 syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
<i>i1</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level ipfib

logging level ipfib <i0> | no logging level ipfib

Syntax Description

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

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

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

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

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

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 keystore

logging level { keystore | sksd } <i0> | no logging level { keystore | sksd } [<i0>]

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	logging	Modify message logging facilities
	level	Facility parameter for syslog messages
	keystore	Keystore syslog level
	sksd	Keystore/sksd syslog level
	<i>i0</i>	

Command Mode

- /exec/configure

logging level l3vm

[no] logging level l3vm <level>

Syntax Description

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

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 <i><i></i></i> | no logging level ldap [<i><i></i></i>]

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	logging	Modify message logging facilities
	level	Facility parameter for syslog messages
	ldap	Set level for ldap syslog messages
	<i>iO</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level license

logging level { license | licmgr } <i0> | no logging level { license | licmgr } [<i0>]

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	logging	Modify message logging facilities
	level	Facility parameter for syslog messages
	license	Licensing syslog level
	licmgr	Licensing syslog level
	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

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

Syntax Description	<i>no</i> (Optional) Negate a command or set its defaults
	<i>logging</i> Modify message logging facilities
	<i>level</i> Facility parameter for syslog messages
	<i>lisp</i> Set logging level for LISP
	<i>level</i> 0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level lldp

[no] logging level lldp <i0>

Syntax Description

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 mmode

[no] logging level mmode <i0>

Syntax Description

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

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

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 ldp

[no] logging level mpls ldp <level>

Syntax Description

Syntax Description

no (Optional) Negate a command or set its defaults

logging Modify message logging facilities

level Facility parameter for syslog messages

mpls Set level for MPLS syslog messages

ldp Set level for LDP syslog messages

level 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

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

Syntax Description	
no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
mpls	Set level for MPLS syslog messages
static	Set level for MPLS Static syslog messages
<i>level</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level mpls switching

[no] logging level mpls switching <level>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
mpls	Set level for MPLS syslog messages
switching	Set level for mpls switching syslog messages
<i>level</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level mpls traffic-eng

[no] logging level mpls traffic-eng <i0>

Syntax Description

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 mvsh

[no] logging level mvsh <i0>

Syntax Description

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

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

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

logging level netstack

{ logging level netstack <level> } | { no logging level netstack [<level>] }

Syntax Description

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

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 ngoam

[no] logging level ngoam <i0>

Syntax Description

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 ntp

[no] logging level ntp <i0>

Syntax Description

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

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 onep

[no] logging level onep <0-7>

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	logging	Modify message logging facilities
	level	Facility parameter for syslog messages
	onep	One Platform
	0-7	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level openflow

[no] logging level openflow <i0>

Syntax Description

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

Syntax Description	<i>no</i> (Optional) Negate a command or set its defaults
	<i>logging</i> Modify message logging facilities
	<i>level</i> Facility parameter for syslog messages
	<i>orib</i> Set syslog filter level for ORIB
	<i>level</i> 0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level ospf

[no] logging level ospf <level>

Syntax Description

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

Syntax Description	<i>no</i> (Optional) Negate a command or set its defaults
	<i>logging</i> Modify message logging facilities
	<i>level</i> Facility parameter for syslog messages
	<i>ospfv3</i> Set syslog filter level for OSPFv3
	<i>level</i> 0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level otm

logging level otm <i0>

Syntax Description

Syntax Description

logging Modify message logging facilities

level Facility parameter for syslog messages

otm Set level for otm 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 otv

[no] logging level otv <level>

Syntax Description

Syntax Description	<i>no</i> (Optional) Negate a command or set its defaults
	<i>logging</i> Modify message logging facilities
	<i>level</i> Facility parameter for syslog messages
	<i>otv</i> Set syslog filter level for OTV
	<i>level</i> 0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level pfstat

logging level pfstat <i>i0</i> | no logging level pfstat

Syntax Description

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 pim6

[no] logging level pim6 <level>

Syntax Description

Syntax Description	no (Optional) Negate a command or set its defaults
	logging Modify message logging facilities
	level Facility parameter for syslog messages
	pim6 Set syslog filter level for PIM6
	level 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

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

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

Syntax Description	no	(Optional) Negate a command or set its defaults
	logging	Modify message logging facilities
	level	Facility parameter for syslog messages
	platform	platform manager syslog level
	<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level plcmgr

[no] logging level { plcmgr | ipplc } <i0>

Syntax Description

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

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

Syntax Description	no	Negate a command or set its defaults
	logging	Modify message logging facilities
	level	Facility parameter for syslog messages
	plugin	Set level for plugin syslog messages
	<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level poap

[no] logging level poap <i0>

Syntax Description

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 port-profile

logging level port-profile <i0> | no logging level port-profile [<i0>]

Syntax Description

Syntax Description

no	Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
port-profile	Set level for port-profile syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level port-security

logging level port-security <i0> | no logging level port-security [<i0>]

Syntax Description

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_client

[no] logging level port_client <i0>

Syntax Description

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_lb

[no] logging level { port_lb <i0> | diag_port_lb <i0> }

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
logging	Modify message logging facilities	
level	Facility parameter for syslog messages	
port_lb	Set level for Diagnostic Port Loopback Test syslog messages	
diag_port_lb	Set level for Diagnostic Port Loopback Test syslog messages	
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug	

Command Mode

- /exec/configure

logging level private-vlan

[no] logging level private-vlan <i0>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
private-vlan	Set level for private VLAN syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level ptp

[no] logging level ptp <i0>

Syntax Description

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

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

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

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

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

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 scheduler

[no] logging level scheduler <i0>

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	logging	Modify message logging facilities
	level	Facility parameter for syslog messages
	scheduler	Set logging level for scheduler
	<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level security

logging level { security | securityd } <i0> | no logging level { security | securityd } [<i0>]

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
security	Security syslog level
securityd	Security syslog level
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level session-mgr

logging level session-mgr <i0> | no logging level session-mgr [<i0>]

Syntax Description

Syntax Description

no	Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
session-mgr	Set level for session-manager syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level sflow

[no] logging level sflow <i0>

Syntax Description

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 smm

[no] logging level smm <level>

Syntax Description

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

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

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

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 stripcl

[no] logging level stripcl <log-level>

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	logging	Modify message logging facilities
	level	Facility parameter for syslog messages
	stripcl	Set level for stripcl syslog messages
	<i>log-level</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level sysmgr

{ logging level sysmgr <i0> | no logging level sysmgr [<i0>] }

Syntax Description

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

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

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 track

[no] logging level track <i0>

Syntax Description

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

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 u6rib

[no] logging level u6rib <level>

Syntax Description

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

Syntax Description	no	(Optional) Negate a command or set its defaults
	logging	Modify message logging facilities
	level	Facility parameter for syslog messages
	udd	Set level for udd syslog messages
	<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level urib

[no] logging level urib <level>

Syntax Description

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

Syntax Description	logging	Modify message logging facilities
	level	Facility parameter for syslog messages
	vdc_mgr	Set level for vdc_mgr syslog messages
	<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level virtual-service

[no] logging level virtual-service <i0>

Syntax Description

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 vmm

[no] logging level vmm <i0>

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	logging	Modify message logging facilities
	level	Facility parameter for syslog messages
	vmm	Set level for vmm syslog messages
	<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level vmtracker

[no] logging level vmtracker <i0>

Syntax Description

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

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

Syntax Description		
no	(Optional)	Negate a command or set its defaults
logging		Modify message logging facilities
level		Facility parameter for syslog messages
vrrp-cfg		Set level for vrrp configuration
<i>cfg_level_num</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug	
vrrp-eng		Set level for vrrp engine
<i>eng_level_num</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug	

Command Mode

- /exec/configure

logging level vrrpv3

[no] logging level { vrrpv3 <level> }

Syntax Description

Syntax Description	<i>no</i> (Optional) Negate a command or set its defaults
	<i>logging</i> Modify message logging facilities
	<i>level</i> Facility parameter for syslog messages
	<i>vrrpv3</i> Set level for vrrpv3 configuration
	<i>level</i> 0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level vshd

[no] logging level vshd <i0>

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	logging	Modify message logging facilities
	level	Facility parameter for syslog messages
	<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level xbar

[no] logging level xbar <*i0*>

Syntax Description

Syntax Description	no (Optional) Negate a command or set its defaults
	logging Modify message logging facilities
	level Facility parameter for syslog messages
	xbar xbar syslog level
	<i>i0</i> 0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging logfile

```
{ logging logfile <s0> <i0> [ size <i1> ] | no logging logfile [ <s0> <i0> [ size <i1> ] ] }
```

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
logging	Modify message logging facilities
logfile	Set File logging
<i>s0</i>	Enter the logfile name
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
size	(Optional) Set logfile size
<i>i1</i>	(Optional) Enter the logfile size in bytes

Command Mode

- /exec/configure

logging max_filesize

logging max_filesize <i0>

Syntax Description

Syntax Description	
logging	Exec logging commands
max_filesize	Increase default debug logfile size
<i>i0</i>	

Command Mode

- /exec

logging max_messages

logging max_messages <i0>

Syntax Description

Syntax Description

logging Exec logging commands

max_messages Increase maximum syslogd message buffer size

i0

Command Mode

- /exec

logging message interface type ethernet

logging message interface type ethernet <info> | no logging message interface type ethernet <info>

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	logging	Configure logging for interface
	message	Interface events
	interface	Interface level events
	type	Interface type
	ethernet	Ethernet interfaces
	<i>info</i>	Field Names to be added to interface syslog

Command Mode

- /exec/configure

logging module

[no] logging module [<i0>]

Syntax Description

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

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

Syntax Description	
no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
origin-id	Enable origin information for Remote Syslog Server
hostname	Use hostname as origin-id of logging messages
ip	Use ip address as origin-id of logging messages
<i>ip0</i>	Hostname/IPv4/IPv6 address
string	Use text string as origin-id of logging messages
<i>s0</i>	Enter string to append to the front of syslog msgs

Command Mode

- /exec/configure

logging reconcile

```
logging reconcile { all [ force ] | files <i0> | vtys <i1> | dev <s0> }
```

Syntax Description

Syntax Description	
logging	Modify message logging facilities
reconcile	Reconcile the internal data structures in syslogd, only use in console connection when all VTYS are closed
all	Reconcile all VTY elements in Files array and VTY list - only supported in console
force	(Optional) Reconcile all VTY elements in Files array and VTY list - force to run in VTYS or console
files	Reconcile specific element in Files array
<i>i0</i>	Enter Files array index to reconcile
vtys	Reconcile specific element in VTY list
<i>i1</i>	Enter VTY list index to reconcile
dev	Reconcile specific dev elements in Files array and VTY list
<i>s0</i>	Enter the dev name to reconcile

Command Mode

- /exec/configure

logging server

```
[no] logging server <host0> [ [ <i1> ] [ port <port> ] [ use-vrf { <vrf-name> | <vrf-known-name> } | facility
{ auth | authpriv | cron | daemon | ftp | kernel | local0 | local1 | local2 | local3 | local4 | local5 | local6 | local7
| lpr | mail | news | syslog | user | uucp } ] + ]
```

Syntax Description

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
server	Enable forwarding to Remote Syslog Server
<i>host0</i>	Hostname/IPv4/IPv6 address of the Remote Syslog Server
<i>i1</i>	(Optional) 0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
port	(Optional) Destination Port when forwarding to remote server
<i>port</i>	(Optional) Range from 1 - 65535(Default 514)
use-vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
facility	(Optional) Facility to use when forwarding to server
auth	(Optional) Use auth facility
authpriv	(Optional) Use authpriv facility
cron	(Optional) Use Cron/at facility
daemon	(Optional) Use daemon facility
ftp	(Optional) Use file transfer system facility
kernel	(Optional) Use kernel facility
local0	(Optional) Use local0 facility
local1	(Optional) Use local1 facility
local2	(Optional) Use local2 facility
local3	(Optional) Use local3 facility
local4	(Optional) Use local4 facility
local5	(Optional) Use local5 facility
local6	(Optional) Use local6 facility

local7	(Optional) Use local7 facility
lpr	(Optional) Use lpr facility
mail	(Optional) Use mail facility
news	(Optional) Use USENET news facility
syslog	(Optional) Use syslog facility
user	(Optional) Use user facility
uucp	(Optional) Use Unix-to-Unix copy system facility

Command Mode

- /exec/configure

logging source-interface

{ logging source-interface <interface> | no logging source-interface }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
logging		Modify message logging facilities
source-interface		Enable Source-Interface for Remote Syslog Server
<i>interface</i>		Source interface name

Command Mode

- /exec/configure

logging timestamp

[no] logging timestamp { microseconds | milliseconds | seconds }

Syntax Description

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 block-for

[no] login block-for

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
login	Enable secure login checking
block-for	Set quiet-mode active time period

Command Mode

- /exec/configure

login block-for attempts within

login block-for <i1> attempts <i2> within <i3>

Syntax Description

Syntax Description	
login	Enable secure login checking
block-for	Set quiet-mode active time period
<i>i1</i>	Time period in seconds
attempts	Set max number of fail attempts
<i>i2</i>	Fail attempts max value
within	Watch period for fail attempts
<i>i3</i>	Time period in seconds

Command Mode

- /exec/configure

login on-failure log

[no] login on-failure log

Syntax Description

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

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

login quiet-mode

[no] login quiet-mode

Syntax Description

Syntax Description		
	no	Negate a command or set its defaults
	login	Enable secure login checking
	quiet-mode	Set quiet-mode options

Command Mode

- /exec/configure

login quiet-mode access-class

login quiet-mode access-class <access-list>

Syntax Description

Syntax Description	
login	Enable secure login checking
quiet-mode	Set quiet-mode options
access-class	Set access class
<i>access-list</i>	Access-list name

Command Mode

- /exec/configure

logit

logit <log>

Syntax Description

Syntax Description

logit Add

log Specify

Command Mode

- /exec

logout-warning

```
{ logout-warning <i0> | no logout-warning [ <i0> ] }
```

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	logout-warning	Configure logout warning
	<i>i0</i>	Enter logout warning time in seconds

Command Mode

- /exec/configure/line

low-memory exempt

[no | default] low-memory exempt

Syntax Description

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

Syntax Description	<code>Ishow</code> display this instance of credential
---------------------------	--

Command Mode

- /exec/configure/dot1x-cred

Ishow

Ishow

Syntax Description

Syntax Description

`show` local show: displays config of current interface

Command Mode

- /exec/configure/if-igp

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

Syntax Description		
no		Negate a command or set its defaults
lsp-gen-interval		Configure LSP generation interval
<i>level</i>		IS-IS level
<i>max-wait</i>		Maximum wait between trigger and LSP generation (milli-secs)
<i>initial-wait</i>	(Optional)	Initial wait between trigger and LSP generation (milli-secs)
<i>second-wait</i>	(Optional)	Second wait used in LSP generation (milli-secs) during backoff

Command Mode

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

lsp-mtu

lsp-mtu <mtu> | no lsp-mtu [<mtu>]

Syntax Description

Syntax Description	<i>no</i>	Negate a command or set its defaults
	<i>lsp-mtu</i>	Set LSP MTU
	<i>mtu</i>	Maximum LSP size in bytes

Command Mode

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

lsp-mtu

lsp-mtu <mtu> | no lsp-mtu [<mtu>]

Syntax Description

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

[no] lsp <lsp-name>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
lsp	Configure the name for the label-switched path
<i>lsp-name</i>	Name for this LSP

Command Mode

- /exec/configure/mpls_static/ipv4

lsp

[no] lsp <lsp-name>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
lsp	Configure the name for the label-switched path
<i>lsp-name</i>	Name for this LSP

Command Mode

- /exec/configure/mpls_static/ipv6

lsp attributes

[no] lsp attributes <name>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
lsp	Configure LSP parameters
attributes	Configure LSP attributes
<i>name</i>	Name of LSP attribute list

Command Mode

- /exec/configure/te



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mac-address

mac-address <macaddress> | no mac-address [<macaddress>]

Syntax Description

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_address_val> | no mac-address [<mac_address_val>]

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
mac-address		Configure interface mac address (1)
<i>mac_address_val</i>		Static Router MAC address (1)

Command Mode

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

mac-address

mac-address <mac-addr> | no mac-address

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	mac-address	Manually set interface MAC address
	<i>mac-addr</i>	MAC address

Command Mode

- /exec/configure/if-vlan-common

mac-address destination

{ mac-address { destination | source } <addr> } | { no mac-address { destination | source } }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
mac-address		specify flow mac address
source		specify flow source mac address
destination		specify flow destination mac address
<i>addr</i>		mac address

Command Mode

- /exec/configure/configngoamprofileflow

mac-address ipv6-extract

mac-address ipv6-extract | no mac-address ipv6-extract

Syntax Description

Syntax Description

no Negate a command or set its defaults

mac-address Configure interface mac address (3)

ipv6-extract Extract mac-address (3) from the IPv6 address configured on the interface

Command Mode

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

mac-list permit

```
{ mac-list <name> [ seq <seq> ] { permit | deny } <mac-addr> [ <mac-mask> ] } | { no mac-list <name> [ seq <seq> ] [ { permit | deny } <mac-addr> [ <mac-mask> ] ] }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
mac-list		Build a mac list
<i>name</i>		Name of prefix list
seq	(Optional)	Sequence number of an entry
<i>seq</i>	(Optional)	Sequence number
permit		Specify routes to forward
deny		Specify routes to reject
<i>mac-addr</i>		MAC address
<i>mac-mask</i>	(Optional)	MAC Mask. Default Mask is ffff.ffff.ffff

Command Mode

- /exec/configure

mac access-list

[no] mac access-list <name> [client <clienttype> <clientID>]

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
mac	MAC configuration commands
access-list	Configure access list
<i>name</i>	List name
client	(Optional) set client type
<i>clienttype</i>	(Optional) CLI/ONEP
<i>clientID</i>	(Optional) client appID

Command Mode

- /exec/configure

mac address

[no] mac address { <macaddr> }

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
mac	Configure vMAC address options for Pathway
address	Pathway will use a specified vMAC address
<i>macaddr</i>	48-bit MAC address in HEX

Command Mode

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

mac address inherit

mac address inherit

Syntax Description

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

Syntax Description

no	Negate a command or set its defaults
mac	Configure vMAC address options for Pathway
advert	Specify vMAC unsolicited advertisements
interval	Specify interval between vMAC unsolicited advertisements
<i>macint</i>	Advertisement Interval in seconds

Command Mode

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

mac packet-classify

[no] mac packet-classify

Syntax Description

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

Syntax Description	
no	(Optional) Negate a command or set its defaults
mac	MAC configuration commands
port	Port policy
access-group	Specify access control for packets
<i>name</i>	List name

Command Mode

- /exec/configure/if-set-acl-l2

macsec-mka keychain

macsec-mka keychain <keychain_name> [policy <policy_name>] | no macsec-mka

Syntax Description

Syntax Description		
macsec-mka	Specify MKA keychain and MACsec policy	
keychain	key chain	
<i>keychain_name</i>	name of the keychain specified as a string	
policy	(Optional) policy	
<i>policy_name</i>	(Optional) name of the policy specified as a string	

Command Mode

- /exec/configure/if-eth-port-channel /exec/configure/if-ethernet /exec/configure/if-switching

macsec-policy

[no] macsec-policy <policy_name>

Syntax Description

Syntax Description

macsec-policy Configure MACsec
policy

policy_name Name of Policy

Command Mode

- /exec/configure

management

[no] management

Syntax Description

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

Syntax Description	
no	(Optional) Negate a command or set its defaults
map-notify-group	Group address to send and receive site specific Map-Notify messages
<i>addr</i>	IPv4 group address

Command Mode

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

map-server key

```
{ { [ no ] map-server { <ms> | <ms6> } [ key-type { sha1 | sha2 } ] key <key> } | { [ no ] map-server { <ms> | <ms6> } proxy-reply } }
```

Syntax Description

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

match-address

[no] match-address

Syntax Description

Syntax Description

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

match-address	Match addresses in advertisement packets
---------------	--

Command Mode

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

match

```
[no] match { { access-group name <acl-name> } | [ not ] { { cos <cos-value> } | any | { eth-src <mac_src>
<mac_src_wild> } | { eth-dest <mac_dest> <mac_dest_wild> } | { eth-type <eth-value> } | { vlan
<vlan-number> } | { ip-tos <tos-value> <tos-mask> } | { ip-protocol <ip-protocol-value> } | { ip-src-addr
<ip-s-addr> <ip-s-mask> } | { ip-dst-addr <ip-d-addr> <ip-d-mask> } | { tcp-src-port <tcp-src-port-addr> } |
{ tcp-dst-port <tcp-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 <cmap-name-plc> } | { protocol <protocol-enum> } | { packet length <len-list>
} | { ip rtp <port-list> } | { mpls experimental topmost <exp-list> } } }
```

Syntax Description

Syntax Description

no	(Optional) Negate a command or set its defaults
match	Classification criteria
not	(Optional) Negate this match result
access-group	Access group
name	Named Access List
<i>acl-name</i>	Access List name
cos	IEEE 802.1Q class of service
dscp	DSCP in IP(v4) and IPv6 packets
<i>dscp-list</i>	List of DSCP values
<i>dscp-enum</i>	
precedence	Precedence in IP(v4) and IPv6 packets
<i>precedence-list</i>	List of precedence values
<i>prec-enum</i>	
discard-class	Discard class
<i>discard-class-list</i>	List of discard-class values
qos-group	Qos-group
<i>qos-group-list</i>	List of qos-group values
class-map	Class map
<i>cmap-name-plc</i>	Match class-map name

protocol	Protocol
<i>protocol-enum</i>	
packet	Packet
length	Length of IP datagram
<i>len-list</i>	list of IP packet length
ip	IP
rtp	Real Time Protocol
<i>port-list</i>	UDP port list that are using RTP
mpls	Match on MPLS label
experimental	Match on MPLS Experimental label
topmost	Match on topmost MPLS label
<i>exp-list</i>	List of MPLS exp values
any	Match on Any Filter
eth-dest	Match on Layer 2 destination MAC address
eth-src	Match on Layer 2 source MAC address
eth-type	Match on Ether type
vlan	Match on 802.1Q vlan
ip-tos	Match on IPv4 TOS
ip-protocol	Match on IP protocol
ip-src-addr	Match on IPv4 source address
ip-dst-addr	Match on IPv4 destination address
ipv6-src-addr	Match on IPv6 source address
ipv6-dst-addr	Match on IPv6 destination address
tcp-src-port	Match on TCP source port
tcp-dst-port	Match on TCP source port
udp-src-port	Match on UDP source port
udp-dst-port	Match on UDP source port
input-interface	Match on physical input interface
ipv6-protocol	Match on IPv6 Protocol Value

<i>ipv6-flowlabel</i>	Match on IPv6 Flowlabel
<i>icmpv6-type</i>	Match on ICMPv6 Message Type
<i>icmpv6-code</i>	Match on ICMPv6 Message Code
<i>ipv4-dscp</i>	Match on DSCP for IPV4 Packets
<i>ipv6-dscp</i>	Match on DSCP for IPV6 Packets
<i>cos-value</i>	class of service Value
<i>mac_src</i>	Source MAC address
<i>mac_src_wild</i>	Source MAC mask
<i>mac_dest</i>	Destination MAC address
<i>mac_dest_wild</i>	Destination MAC mask
<i>eth-value</i>	Ethernet type
<i>vlan-number</i>	Vlan number
<i>tos-value</i>	IPv4 TOS
<i>tos-mask</i>	IPV4 TOS Mask for DSCP
<i>ip-protocol-value</i>	IPV4 protocol
<i>ip-s-addr</i>	IPV4 address in format a.b.c.d
<i>ip-d-addr</i>	IPV4 address in format a.b.c.d
<i>ip-s-mask</i>	IPV4 address Mask in format a.b.c.d
<i>ip-d-mask</i>	IPV4 address Mask in format a.b.c.d
<i>tcp-src-port-addr</i>	Transport layer port number
<i>tcp-dest-port-addr</i>	Transport layer port number
<i>udp-src-port-addr</i>	Transport layer port number
<i>udp-dest-port-addr</i>	Transport layer port number
<i>ifnum</i>	Physical interface Name and Number
<i>ipv6-protocol-value</i>	IPv6 Protocol Value
<i>ipv6-flowlabel-value</i>	IPv6 Flowlabel
<i>icmpv6-type-value</i>	ICMPv6 Message Type
<i>icmpv6-code-value</i>	ICMPv6 Message Code
<i>ipv4-dscp-list</i>	List of IPV4 DSCP values

ipv6-dscp-list List of IPV6 DSCP values

Command Mode

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

match

```
[no] match { { access-group name <acl-name> } | [ not ] { dscp { <dscp-list> | <dscp-enum> } + | { cos
<cos-list> } } | { qos-group <qos-group-list> } }
```

Syntax Description

Syntax Description	
<i>dscp-list</i>	<dscp-enum>
<i>cos-list</i>	
no	(Optional) Negate a command or set its defaults
match	Classification criteria
not	(Optional) Negate this match result
access-group	Access group
name	Named Access List
<i>acl-name</i>	Access List name
dscp	DSCP in IP(v4) and IPv6 packets
<i>dscp-enum</i>	
cos	IEEE 802.1Q Class of Service
qos-group	Qos-group
<i>qos-group-list</i>	List of qos-group values

Command Mode

- /exec/configure/class-map

match

```
[no] match { [ not ] { { precedence { <precedence-list> | <prec-enum> } + } | { discard-class <discard-class-list> } | { class-map <cmap-name> } | { protocol <protocol-enum> } | { packet length <len-list> } | { ip rtp <port-list> } | { mpls experimental topmost <exp-list> } } }
```

Syntax Description

Syntax Description

<i>precedence-list</i>	<prec-enum>
no	(Optional) Negate a command or set its defaults
match	Classification criteria
not	(Optional) Negate this match result
precedence	Precedence in IP(v4) and IPv6 packets
<i>prec-enum</i>	
discard-class	Discard class
<i>discard-class-list</i>	List of discard-class values
class-map	Class map
<i>cmap-name</i>	Match class-map name
protocol	Protocol
<i>protocol-enum</i>	
packet	Packet
length	Length of IP datagram
<i>len-list</i>	list of IP packet length
ip	IP
rtp	Real Time Protocol
<i>port-list</i>	UDP port list that are using RTP
mpls	Match on MPLS label
experimental	Match on MPLS Experimental label
topmost	Match on topmost MPLS label
<i>exp-list</i>	List of MPLS exp values

Command Mode

- /exec/configure/class-map

match access-group name

[no] match access-group name <acs-grp-name>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
match	Classification criteria
access-group	Match with given access group
name	Name of the access group
<i>acs-grp-name</i>	Match parameter for class-map

Command Mode

- /exec/configure/cmap

match address

[no] match <ip_ipv6_mac> address <name>

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
match		Specify the match clause
<i>ip_ipv6_mac</i>		IP/IPv6/MAC
address		Match an access list
<i>name</i>		List name

Command Mode

- /exec/configure/vacl

match as-number

[no] match as-number [{ <asnum> | <asnum_range> } +] { <asnum_trail> | <asnum_range_trail> }

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
match		Match values from routing table
as-number		Match BGP peer AS number
<i>asnum</i>	(Optional)	<AA4>,
<i>asnum_range</i>	(Optional)	<AA4>-<AA4>,
<i>asnum_trail</i>		<AA4>,
<i>asnum_range_trail</i>		<AA4>-<AA4>,

Command Mode

- /exec/configure/route-map

match as-number as-path-list

match as-number as-path-list <aspl-name> + | no match as-number as-path-list { <aspl-name> | <aspl-name> } +

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
match		Match values from routing table
as-number		Match BGP peer AS number
as-path-list		AS-path access-list
<i>aspl-name</i>		AS path access list name
<i>aspl-name</i>		AS path access list name
<i>aspl-name</i>		Known as-path access-list name

Command Mode

- /exec/configure/route-map

match as-path

match as-path <aspl-name> + | no match as-path { <aspl-name> | <aspl-name> } +

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
match		Match values from routing table
as-path		Match BGP AS path list
<i>aspl-name</i>		AS path access list name
<i>aspl-name</i>		AS path access list name
<i>aspl-name</i>		Known as-path access-list name

Command Mode

- /exec/configure/route-map

match class-map

[no] match class-map <cmmap-name>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
match	Classification criteria
class-map	Class map
<i>cmmap-name</i>	class map name

Command Mode

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

match community

[no] match community <name> + [exact-match]

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
match	Match values from routing table
community	Match BGP community list
<i>name</i>	Community list name
exact-match	(Optional) Do exact matching of communities

Command Mode

- /exec/configure/route-map

match cos

[no] match cos <cos-list>

Syntax Description

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 cos

[no] match cos <cos-list>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
match	Classification criteria
cos	IEEE 802.1Q class of service
<i>cos-list</i>	List of class-of-service values

Command Mode

- /exec/configure/class-map/type/uf

match datalink

[no] match datalink { mac source-address | mac destination-address | ethertype | vlan }

Syntax Description

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

Syntax Description	<i>dscp-list</i> <dscp-enum>
	no (Optional) Negate a command or set its defaults
	match Classification criteria
	dscp DSCP in IP(v4) and IPv6 packets
	<i>dscp-enum</i>

Command Mode

- /exec/configure/color-cmap

match dscp

[no] match dscp { <dscp-list> } +

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	match	Classification criteria
	dscp	DSCP in IP(v4) packets
	<i>dscp-list</i>	List of DSCP values

Command Mode

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

match exception

```
[no] match exception { { { ip | ipv6 } { option | { icmp { redirect | unreachable } } | multicast } } | ttl-failure
| glean | mtu-failure | nat-flow | { multicast { rpf-failure | sg-rpf-failure | dest-miss | ipv6-rpf-failure |
ipv6-sg-rpf-failure | ipv6-dest-miss } } }
```

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
match	Classification criteria	
exception	Match exception packets	
ip	ipv4 match criteria	
ipv6	ipv6 match criteria	
option	Match ip/ipv6 option exception packets	
icmp	Icmp redirect packets	
redirect	Send redirected packets back to sender	
unreachable	Send unreachable packets back to sender	
municast	IP unicast packets with multicast MAC	
ttl-failure	Failed in ttl	
mtu-failure	mtu-failure	
glean	Glean packets	
multicast	multicast packets	
rpf-failure	multicast rpf check failure	
sg-rpf-failure	multicast sg rpf check failure	
dest-miss	L3 multicast destination lookup failure	
ipv6-rpf-failure	IPv6 multicast rpf check failure	
ipv6-sg-rpf-failure	IPv6 multicast sg rpf check failure	
ipv6-dest-miss	IPv6 L3 multicast destination lookup failure	
nat-flow	ipv4 software nat flow packets	

Command Mode

- /exec/configure/cmap

match extcommunity

[no] match extcommunity <name> + [exact-match]

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
match		Match values from routing table
extcommunity		Match BGP community list
<i>name</i>		Extended Community list name
exact-match	(Optional)	Do exact matching of extended communities

Command Mode

- /exec/configure/route-map

match interface

[no] match interface <name> +

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
match	Match values from routing table
interface	Match first hop interface of route
<i>name</i>	Interface name

Command Mode

- /exec/configure/route-map

match ip address

[no] match ip address <name> +

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	match	Match values from routing table
	ip	Configure IP features
	address	Match address of route or match packet
	<i>name</i>	IP access-list name (for use in route-maps for PBR only)

Command Mode

- /exec/configure/route-map

match ip address prefix-list

match ip address prefix-list <ipv4-pfl-name> + | no match ip address prefix-list { <ipv4-pfl-name> | <ipv4-pfl-name> } +

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
match		Match values from routing table
ip		Configure IP features
address		Match address of route or match packet
prefix-list		Match entries of prefix-lists
<i>ipv4-pfl-name</i>		Name of prefix-list
<i>ipv4-pfl-name</i>		Name of prefix-list
<i>ipv4-pfl-name</i>		Known prefix-list name

Command Mode

- /exec/configure/route-map

match ip multicast rp

```
{ match ip multicast { { rp <iprp> [ rp-type <iprptype> ] } | { group <gprefix> } | { source <ipsrc> } } + } |
{ match ip multicast { { rp <iprp> [ rp-type <iprptype> ] } | { group-range <gaddr_start> to <gaddr_end> }
| { source <ipsrc> } } + } | { no match ip multicast }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
match		Match values from routing table
ip		Configure IP features
multicast		Match multicast attributes
rp		Rendezvous point
<i>iprp</i>		IPv4 rendezvous prefix
rp-type		(Optional) Multicast rendezvous point type
<i>iprptype</i>		(Optional) IPv4 rendezvous point type
group		Multicast Group prefix
<i>gprefix</i>		IPv4 group prefix
group-range		Multicast Group address range
<i>gaddr_start</i>		First Group address
to		Range
<i>gaddr_end</i>		Last Group address
source		Multicast source address
<i>ipsrc</i>		IPv4 source prefix

Command Mode

- /exec/configure/route-map

match ip next-hop prefix-list

match ip next-hop prefix-list <ipv4-pfl-name> + | no match ip next-hop prefix-list { <ipv4-pfl-name> | <ipv4-pfl-name> } +

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
match		Match values from routing table
ip		Configure IP features
next-hop		Match next-hop address of route
prefix-list		Match entries of prefix-lists
<i>ipv4-pfl-name</i>		Name of prefix-list
<i>ipv4-pfl-name</i>		Name of prefix-list
<i>ipv4-pfl-name</i>		Known prefix-list name

Command Mode

- /exec/configure/route-map

match ip protocol

[no] match ip { protocol | tos }

Syntax Description

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

Syntax Description		
no		Negate a command or set its defaults
match		Match values from routing table
ip		Configure IP features
route-source		Match advertising source address of route
prefix-list		Match entries of prefix-lists
<i>ipv4-pfl-name</i>		Name of prefix-list
<i>ipv4-pfl-name</i>		Name of prefix-list
<i>ipv4-pfl-name</i>		Known prefix-list name

Command Mode

- /exec/configure/route-map

match ipv4 source address

[no] match ipv4 { source | destination } address

Syntax Description

Syntax Description		
match		Specify a key field
ipv4		IPv4 attributes
source		Source Address
destination		Destination Address
address		Address

Command Mode

- /exec/configure/nfm-record

match ipv6

```
[no] match ipv6 { { { source | destination } address } | { flow-label | options } }
```

Syntax Description

Syntax Description		
match		Specify a key field
ipv6		IPv6 attributes
source		Source Address
destination		Destination Address
address		Address
flow-label		Flow label
options		Options

Command Mode

- /exec/configure/nfm-record

match ipv6 address

[no] match ipv6 address <name>

Syntax Description

Syntax Description	<i>no</i> (Optional) Negate a command or set its defaults
	<i>match</i> Match values from routing table
	<i>ipv6</i> Configure IPv6 features
	<i>address</i> Match address of route or match packet
	<i>name</i> IPv6 access-list name (for use in route-maps for PBR only)

Command Mode

- /exec/configure/route-map

match ipv6 address prefix-list

match ipv6 address prefix-list <ipv6-pfl-name> + | no match ipv6 address prefix-list { <ipv6-pfl-name> | <ipv6-pfl-name> } +

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
match		Match values from routing table
ipv6		Configure IPv6 features
address		Match address of route or match packet
prefix-list		Match entries of prefix-lists
<i>ipv6-pfl-name</i>		Name of prefix-list
<i>ipv6-pfl-name</i>		Name of prefix-list
<i>ipv6-pfl-name</i>		Known prefix-list name

Command Mode

- /exec/configure/route-map

match ipv6 multicast rp

```
{ match ipv6 multicast { { rp <ipv6rp> [ rp-type <ipv6rptype> ] } | { group <gprefix> } | { source <ipv6src> } } + } | { match ipv6 multicast { { rp <ipv6rp> [ rp-type <ipv6rptype> ] } | { group-range <gaddr_start> to <gaddr_end> } | { source <ipv6src> } } + } | { no match ipv6 multicast }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
match		Match values from routing table
ipv6		Configure IPv6 features
multicast		Match multicast attributes
rp		Rendezvous point
rp-type	(Optional)	Multicast rendezvous point type
<i>ipv6rptype</i>	(Optional)	IPv6 rendezvous point type
group		Multicast group address
group-range		Multicast Group address range
to		Range
source		Multicast source address

Command Mode

- /exec/configure/route-map

match ipv6 next-hop prefix-list

match ipv6 next-hop prefix-list <ipv6-pfl-name> + | no match ipv6 next-hop prefix-list { <ipv6-pfl-name> | <ipv6-pfl-name> } +

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
match		Match values from routing table
ipv6		Configure IPv6 features
next-hop		Match next-hop address of route
prefix-list		Match entries of prefix-lists
<i>ipv6-pfl-name</i>		Name of prefix-list
<i>ipv6-pfl-name</i>		Name of prefix-list
<i>ipv6-pfl-name</i>		Known prefix-list name

Command Mode

- /exec/configure/route-map

match ipv6 route-source prefix-list

```
match ipv6 route-source prefix-list <ipv6-pfl-name> + | no match ipv6 route-source prefix-list {
<ipv6-pfl-name> | <ipv6-pfl-name> } +
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
match		Match values from routing table
ipv6		Configure IPv6 features
route-source		Match advertising source address of route
prefix-list		Match entries of prefix-lists
<i>ipv6-pfl-name</i>		Name of prefix-list
<i>ipv6-pfl-name</i>		Name of prefix-list
<i>ipv6-pfl-name</i>		Known prefix-list name

Command Mode

- /exec/configure/route-map

match metric

[no] match metric { <measure> [<plus-minus> <deviation>] } +

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
match	Match values from routing table
metric	Match metric of route
<i>plus-minus</i>	(Optional) +-
<i>measure</i>	Metric value
<i>deviation</i>	(Optional) Deviation value

Command Mode

- /exec/configure/route-map

match ospf-area

[no] match ospf-area <area> +

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
match	Match values from routing table
ospf-area	Match ospf area
<i>area</i>	area id

Command Mode

- /exec/configure/route-map

match protocol

[no] match protocol { fcoe | iscsi | tcp }

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
match	Classification criteria
protocol	Protocol
fcoe	FCoE
iscsi	ISCSI
tcp	TCP

Command Mode

- /exec/configure/class-map/type/uf

match protocol arp

```
[no] match protocol { arp | mpls [ router-alert | exp <exp_value> ] }
```

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
match		Classification criteria
protocol		Protocol
arp		IP ARP
mpls		Multi-protocol Label Switching
router-alert	(Optional)	Match packets with router-alert label set to 1 for OTV Overlay frames
exp	(Optional)	Match packets on MPLS exp bits
<i>exp_value</i>	(Optional)	Exp bits value

Command Mode

- /exec/configure/cmap

match qos-group

[no] match qos-group { <qos-group-list> } +

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
match	Classification criteria	
qos-group	QoS Group	
<i>qos-group-list</i>	List of qos-group values	

Command Mode

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

match qos-group2

[no] match qos-group2 { <qos-group-list> }

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
match		Classification criteria
qos-group2		QoS Group
<i>qos-group-list</i>		List of qos-group values

Command Mode

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

match qos-group2

[no] match qos-group2 <qos-group-list>

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
match	Classification criteria	
qos-group2	QoS Group	
<i>qos-group-list</i>	Qos-group value	

Command Mode

- /exec/configure/class-map/type/uf

match qos-group

[no] match qos-group <qos-group-list>

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
match		Classification criteria
qos-group		QoS Group
<i>qos-group-list</i>		List of qos-group values

Command Mode

- /exec/configure/class-map/type/uf

match redirect

[no] match redirect <opt_match_redirect>

Syntax Description

Syntax Description		
	no	(Optional) Negate a command or set its defaults
	match	Classification criteria
	redirect	Match redirected packets
	<i>opt_match_redirect</i>	Match criteria for redirected packets

Command Mode

- /exec/configure/cmap

match route-type

[no] match route-type { external | internal | level-1 | level-2 | local | nssa-external | type-1 | type-2 | inter-area | intra-area } +

Syntax Description

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

Syntax Description	
no	(Optional) Negate a command or set its defaults
match	Match values from routing table
source-protocol	Match source protocol
<i>src_prot</i>	Protocol instance name

Command Mode

- /exec/configure/route-map

match tag

[no] match tag <tagid> +

Syntax Description

Syntax Description	<i>no</i> (Optional) Negate a command or set its defaults
	<i>match</i> Match values from routing table
	<i>tag</i> Match tag of route
	<i>tagid</i> Tag value

Command Mode

- /exec/configure/route-map

match transport destination

[no] match transport { destination-port | source-port }

Syntax Description

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

Syntax Description	
no	Negate a command or set its defaults
max-backoff	OpenFlow controller maximum backoff timer (default is 8 seconds)
<i>maxbackoff-val</i>	max backoff timer value in secs

Command Mode

- /exec/configure/openflow/switch

max-backoff

max-backoff <maxbackoff-val> | no max-backoff

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
max-backoff	OpenFlow controller maximum backoff timer (default is 8 seconds)
<i>maxbackoff-val</i>	max backoff timer value in secs

Command Mode

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

max-lsa

[no] max-lsa <maximum-number> [<threshold>] [warning-only | [ignore-time <ignore-time-minutes>] [ignore-count <ignore-count-number>] [reset-time <reset-time-minutes>]]

Syntax Description

Syntax Description

no	(Optional) Negate a command or set its defaults
max-lsa	Feature to limit the number of non-self-originated LSAs
<i>maximum-number</i>	Set maximum number of non self-generated LSAs
<i>threshold</i>	(Optional) Threshold value (%) at which to generate a warning message
warning-only	(Optional) Log a warning message when limit is exceeded
ignore-time	(Optional) Set time during which all adjacencies are suppressed
<i>ignore-time-minutes</i>	(Optional) ignore-time in minutes
ignore-count	(Optional) Set count on how many times adjacencies can be suppressed
<i>ignore-count-number</i>	(Optional) ignore-count
reset-time	(Optional) Set number of minutes after which ignore-count is reset to zero
<i>reset-time-minutes</i>	(Optional) reset-time in minutes

Command Mode

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

max-lsa

[no] max-lsa <maximum-number> [<threshold>] [warning-only] [ignore-time <ignore-time-minutes>] [ignore-count <ignore-count-number>] [reset-time <reset-time-minutes>]]

Syntax Description

Syntax Description

no	(Optional) Negate a command or set its defaults
max-lsa	Feature to limit the number of non-self-originated LSAs
<i>maximum-number</i>	Set maximum number of non self-generated LSAs
<i>threshold</i>	(Optional) Threshold value (%) at which to generate a warning message
warning-only	(Optional) Log a warning message when limit is exceeded
ignore-time	(Optional) Set time during which all adjacencies are suppressed
<i>ignore-time-minutes</i>	(Optional) ignore-time in minutes
ignore-count	(Optional) Set count on how many times adjacencies can be suppressed
<i>ignore-count-number</i>	(Optional) ignore-count
reset-time	(Optional) Set number of minutes after which ignore-count is reset to zero
<i>reset-time-minutes</i>	(Optional) reset-time in minutes

Command Mode

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

max-lsp-lifetime

max-lsp-lifetime <lifetime> | no max-lsp-lifetime [<lifetime>]

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
max-lsp-lifetime		Set maximum LSP lifetime
<i>lifetime</i>		Maximum LSP lifetime in seconds

Command Mode

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

max-lsp-lifetime

max-lsp-lifetime <lifetime> | no max-lsp-lifetime [<lifetime>]

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
max-lsp-lifetime		Set maximum LSP lifetime
<i>lifetime</i>		Maximum LSP lifetime in seconds

Command Mode

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

max-metric router-lsa

```
[no] max-metric router-lsa [ external-lsa [ <max-metric-extlsa> ] ] [ include-stub ] [ on-startup [ <timeout> ]
[ wait-for bgp <as> ] ] [ summary-lsa [ <max-metric-sumlsa> ] ]
```

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
max-metric		Maximize the cost metric
router-lsa		Router LSA
external-lsa	(Optional)	External LSAs
<i>max-metric-extlsa</i>	(Optional)	Max metric value for external LSAs
include-stub	(Optional)	Advertise Max metric for Stub links as well
on-startup	(Optional)	Effective only at startup
<i>timeout</i>	(Optional)	Wait period in seconds after startup
wait-for	(Optional)	Wait for an event to advertise normal metric
bgp	(Optional)	BGP Convergence
<i>as</i>	(Optional)	ASN of BGP to wait for
summary-lsa	(Optional)	Summary LSAs
<i>max-metric-sumlsa</i>	(Optional)	Max metric value for summary LSAs

Command Mode

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

max-metric router-lsa

```
[no] max-metric router-lsa [ external-lsa [ <max-metric-extlsa> ] ] [ stub-prefix-lsa ] [ on-startup [ <timeout> ] ] [ wait-for bgp <as> ] ] [ inter-area-prefix-lsa [ <max-metric-sumlsa> ] ]
```

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
max-metric		Maximize the cost metric
router-lsa		Router LSA
external-lsa	(Optional)	External LSAs
<i>max-metric-extlsa</i>	(Optional)	Max metric value for external LSAs
stub-prefix-lsa	(Optional)	Advertise Max metric for Stub links as well
on-startup	(Optional)	Effective only at startup
<i>timeout</i>	(Optional)	Wait period in seconds after startup
wait-for	(Optional)	Wait for an event to advertise normal metric
bgp	(Optional)	BGP Convergence
<i>as</i>	(Optional)	ASN of BGP to wait for
inter-area-prefix-lsa	(Optional)	Inter-area-prefix LSAs
<i>max-metric-sumlsa</i>	(Optional)	Max metric value for summary LSAs

Command Mode

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

max-ports

[vmware] max-ports <i0>

Syntax Description

Syntax Description

vmware (Optional) VMware configuration

max-ports Max ports on which this profile can be inherited

i0 Enter the max-number of ports

Command Mode

- /exec/configure/port-profile

max-ports

[no] [vmware] max-ports

Syntax Description

Syntax Description

no Negate a command or set its defaults

vmware (Optional) VMware configuration

max-ports Max ports on which this profile can be inherited

Command Mode

- /exec/configure/port-profile

maxas-limit

maxas-limit <as-limit> | no maxas-limit [<as-limit>]

Syntax Description

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 [ibgp] <mpath-count> | no maximum-paths [ibgp] [<mpath-count>]

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
maximum-paths	Forward packets over multipath paths
ibgp	(Optional) Configure multipath for IBGP paths
<i>mpath-count</i>	Number of parallel paths

Command Mode

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

maximum-paths

maximum-paths <max-paths> | no maximum-paths [<max-paths>]

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	maximum-paths	Maximum paths per destination
	<i>max-paths</i>	Maximum paths per destination

Command Mode

- /exec/configure/router-ospf

maximum-paths

maximum-paths <max-paths> | no maximum-paths [<max-paths>]

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	maximum-paths	RIP set maximum paths per route
	<i>max-paths</i>	Maximum paths per prefix

Command Mode

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

maximum-paths

```
{ { maximum-paths <num-paths> } | { no maximum-paths [ <num-paths> ] } }
```

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
maximum-paths	Forward packets over multiple paths
<i>num-paths</i>	Number of paths

Command Mode

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

maximum-paths

maximum-paths <max-paths> | no maximum-paths [<max-paths>]

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	maximum-paths	Set maximum paths per destination
	<i>max-paths</i>	Maximum paths per destination

Command Mode

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

maximum-paths

maximum-paths <max-paths> | no maximum-paths [<max-paths>]

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
maximum-paths	Maximum paths per destination
<i>max-paths</i>	Maximum paths per destination

Command Mode

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

maximum-paths eibgp

maximum-paths eibgp <mpath-count> | no maximum-paths eibgp [<mpath-count>]

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
maximum-paths	Forward packets over multipath paths
eibgp	Configure multipath for both EBGP and IBGP paths
<i>mpath-count</i>	Number of parallel paths

Command Mode

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

maximum-peers

{ maximum-peers <limit> | no maximum-peers [<limit>] }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
maximum-peers		Maximum number of peers for this prefix
<i>limit</i>		Max. peers limit

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor-prefix

maximum-prefix

maximum-prefix <limit> [<percent>] [restart <restart-time> | warning-only] | { no | default } maximum-prefix [<limit> [<percent>] [restart <restart-time> | warning-only]]

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
default		Inherit values from a peer template
maximum-prefix		Maximum number of prefixes from this neighbor
<i>limit</i>		Max. prefix limit
<i>percent</i>		(Optional) Threshold percentage at which to generate a warning
restart		(Optional) Restart bgp connection after limit is exceeded
<i>restart-time</i>		(Optional) Restart interval in minutes
warning-only		(Optional) Only give a warning message when limit is exceeded

Command Mode

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

maximum-prefix

maximum-prefix <limit> [<percent>] [restart <restart-time> | warning-only] | { no | default } maximum-prefix [<limit> [<percent>] [restart <restart-time> | warning-only]]

Syntax Description

Syntax Description

no	Negate a command or set its defaults
default	Inherit values from a peer template
maximum-prefix	Maximum number of prefixes from this neighbor
<i>limit</i>	Max. prefix limit
<i>percent</i>	(Optional) Threshold percentage at which to generate a warning
restart	(Optional) Restart bgp connection after limit is exceeded
<i>restart-time</i>	(Optional) Restart interval in minutes
warning-only	(Optional) Only give a warning message when limit is exceeded

Command Mode

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

maximum-prefix

```
{ { maximum-prefix <value> [ <threshold> ] [ warning-only ] [ restart <time1> ] [ restart-count <count> ] [
reset-time <time2> ] [ dampened ] } | { no maximum-prefix [ <value> [ <threshold> ] [ warning-only ] [ restart
<time1> ] [ restart-count <count> ] [ reset-time <time2> ] [ dampened ] ] } }
```

Syntax Description

Syntax Description

no	Negate a command or set its defaults
maximum-prefix	Maximum number of IP prefixes acceptable in aggregate
<i>value</i>	Number of IP prefixes for maximum-prefix limit
<i>threshold</i>	(Optional) Threshold value (%) at which to generate a warning message
warning-only	(Optional) Only give warning message when limit is exceeded
restart	(Optional) Duration for which a prefix source is ignored
<i>time1</i>	(Optional) Restart interval in minutes
restart-count	(Optional) Number of times sessions are auto-restarted
<i>count</i>	(Optional) Number of times
reset-time	(Optional) Duration after which restart history is cleared
<i>time2</i>	(Optional) Reset time in minutes
dampened	(Optional) Exponentially increase restart time interval

Command Mode

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

maximum routes

[no] maximum routes <limit> [{ <warnlevel> [reinstall <threshold>] } | warning-only]

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
maximum	Set a limit
routes	Maximum number of routes allowed in this routing table
<i>limit</i>	Maximum number of routes allowed
<i>warnlevel</i>	(Optional) Threshold value (%) at which to generate a warning msg
reinstall	(Optional) Reinstall previous rejected route due to over maximum route limit
<i>threshold</i>	(Optional) Threshold value (%) at which to reinstall routes back to VRF
warning-only	(Optional) Only give a warning message if limit is exceeded

Command Mode

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

mcast-group

mcast-group <maddr1> [<maddr2>] | no mcast-group

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
mcast-group	NVE Multicast Group
<i>maddr1</i>	Multicast IP Prefix
<i>maddr2</i>	(Optional) Multicast IP Prefix

Command Mode

- /exec/configure/if-nve/vni

mdix auto

{ mdix auto | no mdix [auto] }

Syntax Description

Syntax Description	no	Negate a command or set its defaults
---------------------------	----	--------------------------------------

	mdx	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

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>] [route-map <policy-name>]

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
mdt		Backbone Multicast Distribution Tree
data		Configure settings for Data MDT
<i>prefix</i>		List of group range prefixes
threshold	(Optional)	Data MDT switching threshold
<i>value</i>	(Optional)	Threshold in kilobits per sec
route-map	(Optional)	Specify policy for creating Data MDTs
<i>policy-name</i>	(Optional)	A route-map name

Command Mode

- /exec/configure/vrf

mdt data bidir-enable

[no] mdt data bidir-enable

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
mdt	Backbone Multicast Distribution Tree	
data	Configure settings for Data MDT	
bidir-enable	Allow creation of data mdts for bidir customers	

Command Mode

- /exec/configure/vrf

mdt data inhibit-reuse

[no] mdt data inhibit-reuse

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
mdt	Backbone Multicast Distribution Tree	
data	Configure settings for Data MDT	
inhibit-reuse	No reusing data mdts in the backbone network	

Command Mode

- /exec/configure/vrf

mdt default

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

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
mdt		Backbone Multicast Distribution Tree
default		The default group
<i>mdt-default</i>		IP multicast group address

Command Mode

- /exec/configure/vrf

mdt enforce-bgp-mdt-safi

[no] mdt enforce-bgp-mdt-safi

Syntax Description

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

Syntax Description	
no	(Optional) Negate a command or set its defaults
mdt	Backbone Multicast Distribution Tree
mtu	The MTU
<i>mtu-value</i>	MTU value

Command Mode

- /exec/configure/vrf

mdt pim hello-interval

[no] mdt pim hello-interval <interval>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
mdt	Backbone Multicast Distribution Tree
pim	PIM protocol related parameters
hello-interval	Hello interval used between peers
<i>interval</i>	Interval in milliseconds

Command Mode

- /exec/configure/vrf

mdt pim jp-interval

[no] mdt pim jp-interval <interval>

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	mdt	Backbone Multicast Distribution Tree
	pim	PIM protocol related parameters
	jp-interval	Join-Prune interval used between peers
	<i>interval</i>	Interval in seconds

Command Mode

- /exec/configure/vrf

mdt source

[no] mdt source <interface>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
mdt	Backbone Multicast Distribution Tree
source	Source interface to be used in the backbone network
<i>interface</i>	Use IP address of this interface

Command Mode

- /exec/configure/vrf

media-type auto

media-type auto

Syntax Description

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

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

Syntax Description	media-type	Select the media-type link
	sfp	Select mgmt port sfp

Command Mode

- /exec/configure/if-mgmt-ether

medium

medium <medium-type> | no medium <medium-type>

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
medium		Configure Interface medium mode
	<i>medium-type</i>	

Command Mode

- /exec/configure/if-vlan-common

medium broadcast

{ medium broadcast | no medium broadcast }

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	medium	Configure Interface medium mode
	broadcast	Broadcast medium

Command Mode

- /exec/configure/ppm-ethernet-switch /exec/configure/if-ether-sub /exec/configure/if-ether-sub-p2p

medium broadcast

{ medium broadcast | no medium broadcast }

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
medium	Configure Interface medium mode
broadcast	Broadcast medium

Command Mode

- /exec/configure/if-ethernet-p2p-switch /exec/configure/if-ethernet-p2p /exec/configure/if-ethernet-all /exec/configure/if-eth-l3-non-member /exec/configure/if-port-channel /exec/configure/if-remote-ethernet-sub /exec/configure/if-eth-port-channel-p2p /exec/configure/if-ethernet-p2p-m

medium p2p

{ medium p2p | no medium p2p }

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	medium	Configure Interface medium mode
	p2p	Point-to-Point medium

Command Mode

- /exec/configure/ppm-ethernet-switch /exec/configure/if-ether-sub /exec/configure/if-ether-sub-p2p /exec/configure/if-port-channel-sub

medium p2p

{ medium p2p | no medium p2p }

Syntax Description

Syntax Description		
no	Negate a command or set its defaults	
medium	Configure Interface medium mode	
p2p	Point-to-Point medium	

Command Mode

- /exec/configure/if-ethernet-p2p-switch /exec/configure/if-ethernet-p2p /exec/configure/if-ethernet-all /exec/configure/if-eth-l3-non-member /exec/configure/if-port-channel /exec/configure/if-remote-ethernet-sub /exec/configure/if-eth-port-channel-p2p /exec/configure/if-ethernet-p2p-m

member vni

[no] member vni <vni-range>

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	member	NVE VN-Segment Membership
	vni	Virtual Network Identifier
	<i>vni-range</i>	vni range, Example: 5000 or 5001-5008

Command Mode

- /exec/configure/if-nve

member vni associate-vrf

[no] member vni <vni-range> associate-vrf

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
member	NVE VN-Segment Membership	
vni	Virtual Network Identifier	
<i>vni-range</i>	vni range, Example: 5000 or 5001-5008	
associate-vrf	Associate vni with a vrf	

Command Mode

- /exec/configure/if-nve

member vni mcast-group

[no] member vni <vni-range> mcast-group <maddr1> [<maddr2>]

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
member	NVE VN-Segment Membership
vni	Virtual Network Identifier
<i>vni-range</i>	vni range, Example: 5000 or 5001-5008
mcast-group	NVE Multicast Group
<i>maddr1</i>	Multicast IP Prefix
<i>maddr2</i>	(Optional) Multicast IP Prefix

Command Mode

- /exec/configure/if-nve

merge config

merge config <from-file> [show-only]

Syntax Description

Syntax Description

merge merge

config merge configuration (to running-config)

from-file the file containing the destination configuration, a patch will be created and applied to the running-config's matching section (format according to 'show run section' command output)

show-only (Optional) only show the patch, don't execute it

Command Mode

- /exec

message-digest-key md5

```
{ { message-digest-key <keyid> md5 <key> } | { no message-digest-key [ <keyid> md5 <key> ] } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
message-digest-key		Message digest authentication password (key)
<i>keyid</i>		Key ID
md5		Use MD5 algorithm
<i>key</i>		The OSPF password (key)

Command Mode

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

message-digest-key md5

```
{ { message-digest-key <keyid> md5 <key> } | { no message-digest-key [ <keyid> md5 <key> ] } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
message-digest-key		Message digest authentication password (key)
<i>keyid</i>		Key ID
md5		Use MD5 algorithm
<i>key</i>		OSPF password (key)

Command Mode

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

metric-style transition

[no] metric-style { transition }

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	metric-style	Configure metric style used in advertised LSPs
	transition	Use both narrow and wide metric style

Command Mode

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

metric direct 0

[no] metric direct 0

Syntax Description

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

Syntax Description	
no	Negate a command or set its defaults
metric	Modify EIGRP routing metrics and parameters
maximum-hops	Advertise EIGRP routes greater than <hops> as unreachable
<i>hops</i>	Hop count

Command Mode

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

metric rib-scale

```
{ { metric rib-scale <rib-scale> } | { no metric rib-scale [ <rib-scale> ] } }
```

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
metric	Modify EIGRP routing metrics and parameters
rib-scale	Defines RIB scaling value
<i>rib-scale</i>	Rib scale

Command Mode

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

metric version 64bit

{ { metric version 64bit } | { no metric version [64bit] } }

Syntax Description

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

Syntax Description	
<code>no</code>	Negate a command or set its defaults
<code>metric</code>	Modify EIGRP routing metrics and parameters
<code>weights</code>	Modify EIGRP metric coefficients
<code>tos</code>	Type Of Service (Only TOS 0 supported)
<code>k1</code>	K1
<code>k2</code>	K2
<code>k3</code>	K3
<code>k4</code>	K4
<code>k5</code>	K5
<code>k6</code>	(Optional) K6

Command Mode

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

mgmt-policy

```
{ no mgmt-policy <policy-name> } | { mgmt-policy <policy-name> { permit | deny } [ [ ip { <ip-addr> [ <ip-mask> ] } ] | [ ip6 <ipv6-prefix> ] ] [ protocol { tcp | udp | icmp } ] [ src-port <srcport> [ <srcport-end> ] ] [ dest-port <dstport> [ <dstport-end> ] ] }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
mgmt-policy	PM	Management Policy
<i>policy-name</i>		Name of the policy
permit		Permit access
deny		Deny access
ip		(Optional) IPV4 address
<i>ip-addr</i>		(Optional) IPV4 source address/subnet
<i>ip-mask</i>		(Optional) IPV4 mask
ip6		(Optional) IPV6 Address
protocol		(Optional) Protocol
tcp		(Optional) TCP protocol
udp		(Optional) UDP protocol
icmp		(Optional) ICMP protocol
src-port		(Optional) Source port
<i>srcport</i>		(Optional) Source port
<i>srcport-end</i>		(Optional) Source Port end
dest-port		(Optional) Destination port
<i>dstport</i>		(Optional) Destination port
<i>dstport-end</i>		(Optional) Destination Port end

Command Mode

- /exec/configure

mkdir

mkdir <uri0>

Syntax Description

Syntax Description

mkdir Create new directory

uri0 Directory name

Command Mode

- /exec

mode

[no] mode <mode-id>

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	mode	Hot-standby mode
	<i>mode-id</i>	Node Mode

Command Mode

- /exec/configure/itd-dg-node

mode

[no] mode <mode-id>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
mode	Hot-standby mode
<i>mode-id</i>	Node Mode

Command Mode

- /exec/configure/itd-dg-node

mode every

[no] mode <numsample> every <period>

Syntax Description

Syntax Description

<i>mode</i>	Define the Sampler mode
<i>numsample</i>	Number of samples per sampling - 64 max
<i>every</i>	Time-based sampling
<i>period</i>	Sampling Time Period in milliseconds - 64000 max

Command Mode

- /exec/configure/nfm-sampler

mode openflow

[no] mode openflow

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
mode	Configure the interface operational mode
openflow	Disable/Enable openflow on the interface

Command Mode

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

mode out-of

[no] mode <numsample> out-of <samples> | no mode

Syntax Description

Syntax Description

mode Define the Sampler mode

numsample Number of samples per sampling - 63 max

out-of M out of N packets

samples Number of packets in each sampling - 8191 max

Command Mode

- /exec/configure/nfm-sampler

mode tap-aggregation

[no] mode tap-aggregation

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
mode	Configure the interface operational mode
tap-aggregation	Disable/Enable tap aggregation on the interface

Command Mode

- /exec/configure/if-switching

monitor erspan granularity

[no] monitor erspan granularity { 100_ms | 100_ns | 1588 | ns }

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
monitor	Configure Ethernet SPAN sessions
erspan	Configure Ethernet ERSPAN sessions
granularity	Configure granularity for ERSPAN Type III sessions
100_ms	100 microseconds
100_ns	100 nanoseconds
1588	1588 in seconds/nanoseconds
ns	nanoseconds

Command Mode

- /exec/configure

monitor erspan origin ip-address

[no] monitor erspan origin ip-address <ip> [global]

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
monitor	Configure Ethernet SPAN sessions
erspan	Configure Ethernet ERSPAN sessions
origin	Configure the erspan origin ip address
ip-address	Configure global origin IP address
<i>ip</i>	
global	(Optional) Configure in default VDC across all VDCs

Command Mode

- /exec/configure

monitor erspan switch-id

[no] monitor erspan switch-id <switch_id>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
monitor	Configure Ethernet SPAN sessions
erspan	Configure Ethernet ERSPAN sessions
switch-id	Configure the erspan switch-id
<i>switch_id</i>	erspan-switch-id

Command Mode

- /exec/configure

mount slot0

mount slot0:

Syntax Description

Syntax Description

mount mount expansion flash or USB storage

slot0: mount expansion flash

Command Mode

- /exec

move

move <uri0> <uri1>

Syntax Description

Syntax Description

move Move files

uri0 Source file path

uri1 Destination file path

Command Mode

- /exec

mping

mping [{ broadcast | lc module <i0> | sup module <i1> }]

Syntax Description

Syntax Description	
mping	run mping
broadcast	(Optional) mping broadcast
lc	(Optional) mping line-cards
module	(Optional) slot information
<i>i0</i>	(Optional)
sup	(Optional) mping supervisor
module	(Optional) slot information
<i>i1</i>	(Optional)

Command Mode

- /exec

mpls ip

[no] mpls ip

Syntax Description

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

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

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

mpls ip forwarding

[no] mpls ip forwarding

Syntax Description

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

Syntax Description		
no		Negate a command or set its defaults
mpls		MPLS configuration commands
ip		Configure IP features
propagate-ttl		Configure IP ttl propagation over mpls
forwarded	(Optional)	Prevent traceroute from showing the hops for forwarded packets
local	(Optional)	Prevent traceroute from showing the hops only for local packets

Command Mode

- /exec/configure

mpls ip static

[no] mpls ip static

Syntax Description

Syntax Description	no (Optional) Negate a command or set its defaults
	mpls MPLS configuration commands
	ip Enable IP over MPLS
	static Enable IP over MPLS statically

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel

mpls ip static

[no] mpls ip static

Syntax Description

Syntax Description	no (Optional) Negate a command or set its defaults
	mpls MPLS configuration commands
	ip Enable IP over MPLS
	static Enable IP over MPLS statically

Command Mode

- /exec/configure/if-gre-tunnel

mpls ip ttl-expiration pop

[no] mpls ip ttl-expiration pop [<labels>]

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
mpls		MPLS configuration commands
ip		Configure IP features
ttl-expiration		Configure ttl-expiration
pop		Pop
<i>labels</i>	(Optional)	Number of labels

Command Mode

- /exec/configure

mpls label-space

[no] mpls label-space

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
mpls	MPLS configuration commands
label-space	create label space

Command Mode

- /exec/configure

mpls label range

[no] mpls label range <min-label> <max-label> [static <min-static-label> <max-static-label>]

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
mpls		MPLS configuration commands
label		Label properties
range		Label range
<i>min-label</i>		Minimum label value
<i>max-label</i>		Maximum label value
static	(Optional)	Specify block of labels for static bindings
<i>min-static-label</i>	(Optional)	Minimum static label value
<i>max-static-label</i>	(Optional)	Maximum static label value

Command Mode

- /exec/configure

mpls 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

Syntax Description

no	Negate a command or set its defaults
mpls	MPLS configuration commands
static	MPLS static application
binding	Establish static label bindings
ipv4	Bind IPv4 destination with label
vrf	(Optional) VPN Routing/Forwarding instance name
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>prefix</i>	Destination prefix
<i>mask</i>	Destination prefix mask
<i>prefix-mask</i>	Destination prefix/mask
input	(Optional) Incoming (local) label
<i>static-inlabel</i>	Label Value
output	Outgoing (remote) label
<i>next-hop</i>	Destination next hop
<i>static-outlabel</i>	Label Value
explicit-null	IETF MPLS IPv4 explicit null label (0)
implicit-null	IETF MPLS implicit null label (3)

Command Mode

- /exec/configure/ldp

mpls static binding ipv4 vrf per-vrf input output pop-and-lookup

```
mpls static binding ipv4 vrf { <vrf-name> | <vrf-known-name> } per-vrf input <static-inlabel> output
pop-and-lookup | no mpls static binding ipv4 vrf { <vrf-name> | <vrf-known-name> } per-vrf input
<static-inlabel> output pop-and-lookup
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
mpls		MPLS configuration commands
static		MPLS static application
binding		Establish static label bindings
ipv4		Bind IPv4 destination with label
vrf		VPN Routing/Forwarding instance name
<i>vrf-name</i>		VRF name
<i>vrf-known-name</i>		Known VRF name
per-vrf		Per-VRF information
input		Incoming (local) label
<i>static-inlabel</i>		Label Value
output		Outgoing information
pop-and-lookup		Pop label and perform a lookup

Command Mode

- /exec/configure/ldp

mpls static configuration

[no] mpls static configuration

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
mpls	MPLS configuration commands
static	Configure Static Label Bindings
configuration	Enter MPLS Static global configuration submode

Command Mode

- /exec/configure

mpls strip

```
mpls strip { { poll-timer <timeout> } | { dest-mac <mac-addr> } | { threshold <low> <high> } | { label-age <age> [ sec | min | hrs | days ] } } | no mpls strip { poll-timer | dest-mac | threshold | label-age }
```

Syntax Description

Syntax Description		
<code>no</code>		Negate a command or set its defaults
<code>mpls</code>		Configure MPLS settings
<code>strip</code>		Stripping of MPLS headers
<code>poll-timer</code>		Timer to poll for stats
<code>timeout</code>		Time in seconds to poll for stats
<code>threshold</code>		For when to delete aged labeld
<code>low</code>		Lower Threshold
<code>high</code>		Higher Threshold
<code>label-age</code>		label Age
<code>age</code>		Label age
<code>sec</code>		(Optional) Time in Seconds - default
<code>min</code>		(Optional) Time in Minutes
<code>hrs</code>		(Optional) Time in Hours
<code>days</code>		(Optional) Time in Days
<code>dest-mac</code>		Destination MAC address for egress frames
<code>mac-addr</code>		MAC Address

Command Mode

- /exec/configure

mpls strip

[no] mpls strip

Syntax Description

Syntax Description	no (Optional) Negate a command or set its defaults
	mpls Configure MPLS settings
	strip Stripping of MPLS headers

Command Mode

- /exec/configure

mpls strip label

[no] mpls strip label { <value> } [interface <interface-name>] | no mpls strip label all

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
mpls	Configure MPLS settings	
strip	Stripping of MPLS headers	
label	Add a static label in database	
<i>value</i>	20 bit value for label	
all	Delete all static labels	
interface	(Optional) Interface	
<i>interface-name</i>	(Optional) Interface name	

Command Mode

- /exec/configure

mpls traffic-eng

[no] mpls traffic-eng <level>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
mpls	Configure MPLS parameters
traffic-eng	Routing protocol commands for MPLS Traffic Engineering (TE)
<i>level</i>	IS-IS level

Command Mode

- /exec/configure/router-isis

mpls traffic-eng administrative-weight

mpls traffic-eng administrative-weight <num> | no mpls traffic-eng administrative-weight

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
mpls		MPLS configuration commands
traffic-eng		Configure Traffic Engineering parameters
administrative-weight		Set the administrative weight for the interface
<i>num</i>		Weight

Command Mode

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

mpls traffic-eng area

[no] mpls traffic-eng area <area-id-ip>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
mpls	OSPF MPLS configuration commands
traffic-eng	OSPF MPLS Traffic Engineering commands
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address

Command Mode

- /exec/configure/router-ospf

mpls traffic-eng attribute-flags

mpls traffic-eng attribute-flags <value> | no mpls traffic-eng attribute-flags

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
mpls		MPLS configuration commands
traffic-eng		Configure Traffic Engineering parameters
attribute-flags		Set user-defined interface attribute flags
<i>value</i>		Attribute flags

Command Mode

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

mpls traffic-eng backup-path

[no] mpls traffic-eng backup-path [<tunnel-num>] | mpls traffic-eng backup-path <tunnel-num>

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
mpls	MPLS configuration commands
traffic-eng	Configure Traffic Engineering parameters
backup-path	Configure an MPLS TE backup for this interface
<i>tunnel-num</i>	(Optional)

Command Mode

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

mpls traffic-eng bandwidth

[no] mpls traffic-eng bandwidth | mpls traffic-eng bandwidth [percent <percentage> | <bw-kbps>]

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
mpls		MPLS configuration commands
traffic-eng		Configure Traffic Engineering parameters
bandwidth		RSVP Reservable Bandwidth (kbps)
percent		(Optional) Specify a percentage of interface bandwidth
<i>percentage</i>		(Optional) Percentage of bandwidth
<i>bw-kbps</i>		(Optional) Reservable Bandwidth (kbps)

Command Mode

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

mpls traffic-eng configuration

mpls traffic-eng configuration

Syntax Description

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

Syntax Description	
no	(Optional) Negate a command or set its defaults
fast-reroute	fast-reroute command
promote	promote to a better backup tunnel
mpls	MPLS configuration commands
traffic-eng	Traffic engineering commands

Command Mode

- /exec

mpls traffic-eng multicast-intact

[no] mpls traffic-eng multicast-intact

Syntax Description

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

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

Syntax Description	
no	(Optional) Negate a command or set its defaults
reoptimize	reoptimize traffeng tunnels
<i>tunnel-num</i>	(Optional)
mpls	MPLS configuration commands
traffic-eng	Traffic engineering commands

Command Mode

- /exec

mpls traffic-eng router-id

[no] mpls traffic-eng router-id <interface>

Syntax Description

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 router-id

[no] mpls traffic-eng router-id <interface>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
mpls	OSPF MPLS configuration commands
traffic-eng	OSPF MPLS Traffic Engineering commands
router-id	Router ID associated with TE
<i>interface</i>	Routable Interface

Command Mode

- /exec/configure/router-ospf

mpls traffic-eng tunnels

[no] mpls traffic-eng tunnels

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
mpls	MPLS configuration commands
traffic-eng	Configure Traffic Engineering parameters
tunnels	enable MPLS Traffic Engineering tunnels

Command Mode

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

mst designated priority

mst <mst-id> designated priority <prio> | no mst <mst-id> designated priority [<prio>]

Syntax Description

Syntax Description

no	Negate a command or set its defaults
mst	Multiple spanning tree configuration
<i>mst-id</i>	MST instance range, example: 0-3,5,7-9
designated	Set the designated bridge priority for the spanning tree
priority	Set the bridge priority for the spanning tree
<i>prio</i>	bridge priority in increments of 4096

Command Mode

- /exec/configure/spanning-tree/pseudo

mst root priority

mst <mst-id> root priority <prio> | no mst <mst-id> root priority [<prio>]

Syntax Description

Syntax Description

no	Negate a command or set its defaults
mst	Multiple spanning tree configuration
<i>mst-id</i>	MST instance range, example: 0-3,5,7-9
root	Set the root bridge priority for the spanning tree
priority	Set the bridge priority for the spanning tree
<i>prio</i>	bridge priority in increments of 4096

Command Mode

- /exec/configure/spanning-tree/pseudo

mtu

mtu <mtu-val> | no mtu [<mtu-val>]

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	mtu	Configure MTU
	<i>mtu-val</i>	Bytes

Command Mode

- /exec/configure/if-any-tunnel

mtu1

[no] mtu1 <value>

Syntax Description

Syntax Description	no (Optional) Negate a command or set its defaults
	mtu1 MTU for the CoS
	<i>value</i> MTU value

Command Mode

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

mtu

mtu <mtu_val> | no mtu [<mtu_val>]

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
mtu	Configure mtu for the port
<i>mtu_val</i>	

Command Mode

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

mtu

[no] mtu <value>

Syntax Description

Syntax Description	no (Optional) Negate a command or set its defaults
	mtu MTU for the CoS
	<i>value</i> MTU value

Command Mode

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

mtu

mtu <mtu_val> | no mtu

Syntax Description

Syntax Description

no	Negate a command or set its defaults
----	--------------------------------------

mtu	Set the interface Maximum Transmission Unit (MTU)
-----	---

<i>mtu_val</i>	MTU size in bytes
----------------	-------------------

Command Mode

- /exec/configure/if-vlan-common

multi-topology

[no] multi-topology [transition]

Syntax Description

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



N Commands

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name-lookup

[no] name-lookup

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	name-lookup	Display OSPF router ids as DNS names

Command Mode

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

name-lookup

[no] name-lookup

Syntax Description

Syntax Description

no (Optional) Negate a command or set its defaults

name-lookup Enable Name Lookup for OSPF Neighbors

Command Mode

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

name

name <redundancy-name> | no name [<redundancy-name>]

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
name	Redundancy name
<i>redundancy-name</i>	Name String

Command Mode

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

name

name <name-val> | no name [<name-val>]

Syntax Description

Syntax Description

no	Negate a command or set its defaults
----	--------------------------------------

name	Set configuration name
------	------------------------

<i>name-val</i>	Configuration name
-----------------	--------------------

Command Mode

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

name

name [<name>] | no name

Syntax Description

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

nat destination

{ nat destination } | { no nat destination }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
nat		Network Address Translation
destination		Destination NAT

Command Mode

- /exec/configure/itd

nat destination

{ nat destination } | { no nat destination }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
nat		Network Address Translation
destination		Destination NAT

Command Mode

- /exec/configure/itd

nbm flow bandwidth

[no] nbm flow bandwidth <i0>

Syntax Description

Syntax Description		
nbm	Non Blocking Multicast	
flow	Flow Characteristics	
bandwidth	Bandwidth per flow	
<i>i0</i>	Per Flow Bandwidth in Mbps	

Command Mode

- /exec/configure

negotiate auto

negotiate auto | no negotiate auto

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
negotiate	Configure link negotiation parameters
auto	Configure auto-negotiation

Command Mode

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

neighbor-down fib-accelerate

[no] neighbor-down fib-accelerate

Syntax Description

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

Syntax Description	
no	(Optional) Negate a command or set its defaults
neighbor	Configure a BGP neighbor
<i>neighbor-id</i>	IP address of the neighbor
remote-as	(Optional) Specify Autonomous System Number of the neighbor
<i>asn</i>	(Optional) Autonomous System Number

Command Mode

- /exec/configure/router-bgp

neighbor

[no] neighbor { <neighbor-id> | <ipv6-neighbor-id> } [remote-as <asn>]

Syntax Description

Syntax Description

no	(Optional) Negate a command or set its defaults
neighbor	Configure a BGP neighbor
<i>neighbor-id</i>	IP address of the neighbor
remote-as	(Optional) Specify Autonomous System Number of the neighbor
<i>asn</i>	(Optional) Autonomous System Number

Command Mode

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

neighbor

```
[no] neighbor { <neighbor-prefix> | <ipv6-neighbor-prefix> } [ remote-as [ <asn> | route-map <rmap-name> ] ]
```

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
neighbor	Configure a BGP neighbor
<i>neighbor-prefix</i>	IP prefix for neighbors
remote-as	(Optional) Specify Autonomous System Number of the neighbor
<i>asn</i>	(Optional) Autonomous System Number
route-map	(Optional) Route-map to match prefix peer AS number
<i>rmap-name</i>	(Optional) Route-map name

Command Mode

- /exec/configure/router-bgp

neighbor

```
[no] neighbor { <neighbor-prefix> | <ipv6-neighbor-prefix> } [ remote-as [ <asn> | route-map <rmap-name> ] ]
```

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
neighbor		Configure a BGP neighbor
<i>neighbor-prefix</i>		IP prefix for neighbors
remote-as	(Optional)	Specify Autonomous System Number of the neighbor
<i>asn</i>	(Optional)	Autonomous System Number
route-map	(Optional)	Route-map to match prefix peer AS number
<i>rmap-name</i>	(Optional)	Route-map name

Command Mode

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

neighbor

```
neighbor [ vrf { <vrf-name> | <vrf-known-name> } ] <ipaddr> { implicit-withdraw | labels accept <px-list>
| targeted } | no neighbor [ vrf { <vrf-name> | <vrf-known-name> } ] <ipaddr> [ implicit-withdraw | labels
accept | targeted ]
```

Syntax Description

Syntax Description

<code>no</code>	Negate a command or set its defaults
<code>neighbor</code>	Configure neighbor parameters
<code>vrf</code>	(Optional) VRF Routing/Forwarding instance information
<code>vrf-name</code>	(Optional) VPN Routing/Forwarding instance name
<code>vrf-known-name</code>	(Optional) Known VRF name
<code>ipaddr</code>	IP address for LDP neighbor
<code>implicit-withdraw</code>	Enable LDP Implicit Withdraw Label
<code>labels</code>	Configure label binding exchange controls
<code>accept</code>	Specify label bindings to accept
<code>px-list</code>	Name of prefix list
<code>targeted</code>	Establish targeted session

Command Mode

- /exec/configure/ldp

neighbor maximum-prefix

```
{ { neighbor <address> { <interface> | maximum-prefix <value> [ warning-only ] } } | { no neighbor <address>
[ <interface> | maximum-prefix <value> [ warning-only ] ] } } | { { neighbor maximum-prefix <value> [
<threshold> ] [ warning-only ] [ restart <time1> ] [ restart-count <count> ] [ reset-time <time2> ] [ dampened
] } | { no neighbor maximum-prefix [ <value> [ <threshold> ] [ warning-only ] [ restart <time1> ] [ restart-count
<count> ] ] } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
neighbor		Specify a neighbor router
<i>interface</i>		Interface
<i>address</i>		Neighbor address
maximum-prefix		Maximum number of IP prefixes acceptable from a neighbor
<i>value</i>		Number of IP prefixes for maximum-prefix limit
<i>threshold</i>		(Optional) Threshold value (%) at which to generate a warning message
warning-only		(Optional) Only give warning message when limit is exceeded
restart		(Optional) Duration for which a prefix source is ignored
<i>time1</i>		(Optional) Restart interval in minutes
restart-count		(Optional) Number of times sessions are auto-restarted
<i>count</i>		(Optional) Number of times
reset-time		(Optional) Duration after which restart history is cleared
<i>time2</i>		(Optional) Reset time in minutes
dampened		(Optional) Exponentially increase restart time interval

Command Mode

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

net

[no] net <net>

Syntax Description

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

net

[no] net <net>

Syntax Description

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

network

[no] network { <ip-addr> mask <ip-mask> | <ip-prefix> } [route-map <rmap-name> | summarize] +

Syntax Description

Syntax Description

no	(Optional) Negate a command or set its defaults
network	Configure an IP prefix to advertise
<i>ip-addr</i>	IP network to advertise
mask	Configure the mask of the IP prefix to advertise
<i>ip-mask</i>	Dotted 4-octet mask
<i>ip-prefix</i>	IP prefix in CIDR format
route-map	(Optional) Apply route-map to modify attributes
<i>rmap-name</i>	(Optional) Route-map name
summarize	(Optional) Summarize more specific prefixes from routing table

Command Mode

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

network

[no] network <ipv6-prefix> [route-map <rmap-name> | summarize] +

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
network	Configure an IPv6 prefix to advertise
route-map	(Optional) Apply route-map to modify attributes
<i>rmap-name</i>	(Optional) Route-map name
summarize	(Optional) Summarize more specific prefixes from routing table

Command Mode

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

network

[no] network { <ip-dest> <ip-mask> | <ip-prefix> }

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	network	RIP IP network
	<i>ip-dest</i>	IP addr format
	<i>ip-mask</i>	IP network mask format
	<i>ip-prefix</i>	Exact prefix

Command Mode

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

network

[no] network { { <address> <mask> } | <prefix> }

Syntax Description

Syntax Description	<i>no</i>	(Optional) Negate a command or set its defaults
	<i>network</i>	Enable routing on an IP network
	<i>address</i>	Network number
	<i>mask</i>	EIGRP wild card bits
	<i>prefix</i>	IP prefix in slash format

Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-ipv4

network area

[no] network { <ip-dest> <ip-mask> | <ip-prefix> } area { <area-id-ip> | <area-id-int> }

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
network	Enable routing on an IP network
<i>ip-dest</i>	IP prefix format: i.i.i.i
<i>ip-mask</i>	IP network mask format: m.m.m.m
<i>ip-prefix</i>	IP prefix format: x.x.x.x/ml
area	Configure area properties
<i>area-id-ip</i>	OSPF area ID in IP address format
<i>area-id-int</i>	OSPF area ID as a decimal format

Command Mode

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

next-address exclude-address

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

Syntax Description

Syntax Description

<code>next-address</code>	Specify the next address in the path
<code>loose</code>	(Optional) Target address is loose
<code>strict</code>	(Optional) Target address is strict
<code>exclude-address</code>	Exclude an address from subsequent partial path segments
<code>ipaddr</code>	Enter IP address (A.B.C.D)

Command Mode

- /exec/configure/te/expl-path

next-hop-self

[no | default] next-hop-self

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
next-hop-self	Set our peering address as nexthop

Command Mode

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

next-hop-self

[no | default] next-hop-self

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
next-hop-self	Set our peering address as nexthop

Command Mode

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

next-hop-third-party

[no | default] next-hop-third-party

Syntax Description

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

next-hop-third-party

[no | default] next-hop-third-party

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
next-hop-third-party	Compute a third-party nexthop if possible

Command Mode

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

next-hop out-label explicit-null implicit-null next-hop auto-resolve out-label explicit-null implicit-null

```
[no] { next-hop [ backup <interface> ] <next-hop> out-label { <static-outlabel> | explicit-null | implicit-null } | next-hop auto-resolve out-label { <static-outlabel> | explicit-null | implicit-null } }
```

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
next-hop	Nexthop
<i>next-hop</i>	Destination IPv4 next hop
<i>static-outlabel</i>	Label Value
<i>interface</i>	(Optional) Back up interface
out-label	Output label
explicit-null	IETF MPLS IPv4 explicit null label (0)
implicit-null	IETF MPLS implicit null label (3)
auto-resolve	auto resolve the destination path
backup	(Optional) Backup destination

Command Mode

- /exec/configure/mpls_static/ipv4/input

next-hop out-label explicit-null implicit-null next-hop auto-resolve out-label explicit-null implicit-null

```
[no] { next-hop [ backup <interface> ] <ipv6-next-hop> out-label { <static-outlabel> | explicit-null | implicit-null } | next-hop auto-resolve out-label { <static-outlabel> | explicit-null | implicit-null } }
```

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
next-hop		Nexthop
<i>static-outlabel</i>		Label Value
<i>interface</i>	(Optional)	Back up interface
out-label		Output label
explicit-null		IETF MPLS IPv6 explicit null label (2)
implicit-null		IETF MPLS implicit null label (3)
auto-resolve		auto resolve the destination path
backup	(Optional)	Backup destination

Command Mode

- /exec/configure/mpls_static/ipv6/input

nexthop route-map

[no] nexthop route-map <rmap-name>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
nexthop	Nexthop tracking
route-map	Route map for valid nexthops
<i>rmap-name</i>	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

nexthop route-map

[no] nexthop route-map <rmap-name>

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	nexthop	Nexthop tracking
	route-map	Route map for valid nexthops
	<i>rmap-name</i>	Route-map name

Command Mode

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

nexthop trigger-delay critical non-critical

```
{ nexthop trigger-delay critical <criticaldelay> non-critical <noncriticaldelay> } | { no nexthop trigger-delay }
}
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
nexthop		Nexthop tracking
trigger-delay		Set the delay to trigger nexthop tracking
critical		Nexthop changes affecting reachability
non-critical		Other nexthop changes
<i>noncriticaldelay</i>		Delay value (milliseconds)
<i>criticaldelay</i>		Delay value (milliseconds)

Command Mode

- /exec/configure/router-bgp/router-bgp-af /exec/configure/router-bgp/router-bgp-af-ipv4-mdt /exec/configure/router-bgp/router-bgp-af-ipv6-mdt /exec/configure/router-bgp/router-bgp-af-ipv4-vpn /exec/configure/router-bgp/router-bgp-af-ipv6-vpn /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 install acl

[no] ngoam install acl

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
ngoam	ngoam
install	Ngoam install
acl	Ngoam install acl

Command Mode

- /exec/configure

ngoam install acl draft-pang action fwd

[no] ngoam install acl draft-pang action { fwd | drop }

Syntax Description

Syntax	Description
no	(Optional) Negate a command or set its defaults
ngoam	ngoam
install	Ngoam install
acl	Ngoam install acl
draft-pang	Ngoam install acl based on draft pang
action	Choose the action to perform
fwd	Copy and Forward the packet
drop	Copy and Drop the packet

Command Mode

- /exec/configure

ngoam probe start

ngoam probe start <hex-string>

Syntax Description

Syntax Description

ngoam ngoam exec command

probe ngoam probe

start start ngoam probe

hex-string Specify string in hex string format: 0A1B .. starting with outer header of real draft pang probe packet

Command Mode

- /exec

ngoam profile

[no] ngoam profile <profile-id>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
ngoam	Configure ngoam oam
profile	Configure ngoam oam profile
<i>profile-id</i>	ngoam profile id

Command Mode

- /exec/configure

no-more

| no-more

Syntax Description

Syntax Description

| Pipe command output to filter

no-more Turn-off pagination for command output

Command Mode

- /output

no

[no] { userprofile | trustedCert | CRLLookup | user-switch-bind | user-certdn-match | user-pubkey-match }

Syntax Description

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

node

[no] node [ip <ip-addr> | IPv6 <ip-addrv6>]

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
node	ITD node
ip	(Optional) ITD node IPv4 address
<i>ip-addr</i>	(Optional) ITD node IP4 prefix in format i.i.i.i
IPv6	(Optional) ITD node IPv6 address

Command Mode

- /exec/configure/itd-device-group

node

[no] node [ip <ip-addr> | IPv6 <ip-addrv6>]

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
node	ITD node
ip	(Optional) ITD node IPv4 address
<i>ip-addr</i>	(Optional) ITD node IP4 prefix in format i.i.i.i
IPv6	(Optional) ITD node IPv6 address

Command Mode

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

node

[no] node [ip <ip-addr> | IPv6 <ip-addrv6>]

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
node	ITD node
ip	(Optional) ITD node IPv4 address
<i>ip-addr</i>	(Optional) ITD node IP4 prefix in format i.i.i.i
IPv6	(Optional) ITD node IPv6 address

Command Mode

- /exec/configure/itd-device-group

nsf await-redist-proto-convergence

{ [no] nsf await-redist-proto-convergence }

Syntax Description

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

Syntax Description		
no	(Optional)	Negate a command or set its default
ntp		NTP configuration
access-group		NTP access-group
peer	access-group	peer
serve	access-group	serve
serve-only	access-group	serve-only
query-only	access-group	query-only
<i>acl-name</i>		Name of access list

Command Mode

- /exec/configure

ntp allow private

```
[no] ntp allow { private | control [ rate-limit <delay> ] }
```

Syntax Description

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

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

Syntax Description	
no	(Optional) Negate a command or set its default
ntp	NTP configuration
authentication-key	NTP authentication key
<i>number</i>	authentication key number (range 1-65535)
md5	use md5 authentication scheme
<i>md5</i>	MD5 string
0	(Optional) clear text
7	(Optional) encrypted

Command Mode

- /exec/configure

ntp clear internal buffer

ntp clear internal buffer

Syntax Description

Syntax Description

ntp NTP configuration

clear clear

internal internal

buffer debug message
buffer

Command Mode

- /exec

ntp drop-aged-packet

[no] ntp drop-aged-packet

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
ntp	NTP Configuration
drop-aged-packet	Enable or disable Riviera Timestamp Check.

Command Mode

- /exec/configure

ntp enable ntpd-logfile debug-level

[no] ntp enable ntpd-logfile debug-level <level>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its default
ntp	NTP configuration
enable	Enable logging
ntpd-logfile	NTP daemon logs
debug-level	debug level of logs
<i>level</i>	debug level of logs

Command Mode

- /exec/configure

ntp logging

[no] ntp logging

Syntax Description

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

Syntax Description	
no	(Optional) Negate a command or set its default
ntp	NTP configuration
master	Act as NTP master clock
<i>stratum-no</i>	(Optional) Stratum number

Command Mode

- /exec/configure

ntp passive

[no] ntp passive

Syntax Description

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

Syntax Description		
no	(Optional)	Negate a command or set its defaults
ntp		NTP Configuration
peer		NTP Peer address
<i>host0</i>		Hostname/IP address of the NTP Peer
prefer	(Optional)	Preferred Server
key	(Optional)	Keyid to be used while communicating to this server
<i>keyid</i>	(Optional)	Value of keyid 1-65535
use-vrf	(Optional)	Display per-VRF information
<i>vrf-name</i>	(Optional)	VRF name
<i>vrf-known-name</i>	(Optional)	Known VRF name
minpoll	(Optional)	Minimum interval to poll a peer
<i>minpoll</i>	(Optional)	Poll interval in secs to a power of 2 [default 4]
maxpoll	(Optional)	Maximum interval to poll a peer
<i>maxpoll</i>	(Optional)	Poll interval in secs to a power of 2 [default 6]

Command Mode

- /exec/configure

ntp rts-update

[no] ntp rts-update

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
ntp	NTP Configuration
rts-update	Enable or disable RTS update to linecards.

Command Mode

- /exec/configure

ntp server

```
[no] ntp server <host0> [ prefer | key <keyid> | use-vrf { <vrf-name> | <vrf-known-name> } | minpoll <minpoll>
| maxpoll <maxpoll> ] +
```

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
ntp		NTP Configuration
server		NTP server address
<i>host0</i>		Hostname/IP address of the NTP Server
prefer	(Optional)	Preferred Server
key	(Optional)	Keyid to be used while communicating to this server
<i>keyid</i>	(Optional)	Value of keyid 1-65535
use-vrf	(Optional)	Display per-VRF information
<i>vrf-name</i>	(Optional)	VRF name
<i>vrf-known-name</i>	(Optional)	Known VRF name
minpoll	(Optional)	Minimum interval to poll a server
<i>minpoll</i>	(Optional)	Poll interval in secs to a power of 2 [default 4]
maxpoll	(Optional)	Maximum interval to poll a server
<i>maxpoll</i>	(Optional)	Poll interval in secs to a power of 2 [default 6]

Command Mode

- /exec/configure

ntp source-interface

[no] ntp source-interface <interface>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its default
ntp	NTP configuration
source-interface	Source interface sending NTP packets
<i>interface</i>	Source interface

Command Mode

- /exec/configure

ntp source

[no] ntp source <ip-addr>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its default
ntp	NTP Configuration
source	Source of NTP packets
<i>ip-addr</i>	IPv4/IPv6 address

Command Mode

- /exec/configure

ntp sync-retry

ntp sync-retry

Syntax Description

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

Syntax Description	
no	(Optional) Negate a command or set its default
ntp	NTP configuration
trusted-key	NTP trusted-key
<i>number</i>	trusted-key number

Command Mode

- /exec/configure

nv overlay evpn

[no] nv overlay evpn

Syntax Description

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 interface remap-replication-servers

```
nve interface <nve-if> remap-replication-servers
```

Syntax Description

Syntax Description

nve	Configure NVE information
interface	Interface
<i>nve-if</i>	NVE interface
remap-replication-servers	Remap Replication servers to VNIs

Command Mode

- /exec

nve interface replication-server up

```
nve interface <nve-if> replication-server <rep-addr> { up | down }
```

Syntax Description

Syntax Description		
nve		Configure NVE information
interface		Interface
<i>nve-if</i>		NVE interface
replication-server		Configure a replication server
<i>rep-addr</i>		Replication Server IP Address
up		mark replication-server up
down		mark replication-server down

Command Mode

- /exec

nve oam mode draft-pang

[no] nve oam mode draft-pang

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
nve	VxLAN functionality	
oam	VxLAN OAM functionality	
mode	Choose operation mode for OAM	
draft-pang	OAM implementation as per Draft Pang	

Command Mode

- /exec/configure

nxapi certificate

```
{ nxapi certificate { { httpskey { keyfile <uri0> | <line> } } | { httpsCRT { certfile <uri1> | <line1> } } | { enable
} } }
```

Syntax Description

Syntax Description	
nxapi	Configure nxapi
certificate	Https certificate configuration
httpskey	Https private key
httpsCRT	Https certificate
keyfile	Https key file
certfile	Https certificate file
enable	Enable the current certificate
<i>uri0</i>	File containing https private key for the user
<i>line</i>	nxapi https private key
<i>uri1</i>	File containing https certificate
<i>line1</i>	nxapi https certificate

Command Mode

- /exec/configure

nxapi flow

```
{ [ no ] nxapi flow }
```

Syntax Description

Syntax Description	no (Optional) Negate a command or set its defaults
---------------------------	--

	nxapi Configure nxapi
--	-----------------------

	flow allow frontend to access /sys/flow/
--	--

Command Mode

- /exec/configure

nxapi http port

{ nxapi { http | https } port <s0> } | { no nxapi { http | https } } | { no nxapi { http | https } port <s0> }

Syntax Description

Syntax Description

no Negate a command or set its defaults

nxapi Configure nxapi

s0 Port number. Please do not use well-known protocol ports

http Http configuration

https Hhttps configuration

port Port number

Command Mode

- /exec/configure

nxapi use-vrf management default

```
{ nxapi use-vrf { management | default | <vrf_name> } } | { no nxapi use-vrf { management | default | <vrf_name> } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
nxapi		Configure nxapi
use-vrf		vrf to be used for nxapi communication
management		management vrf
default		default vrf
<i>vrf_name</i>		name of the vrf

Command Mode

- /exec/configure



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oam-channel

{ oam-channel <val> } | { no oam-channel }

Syntax Description

Syntax Description	oam-channel	oam-channel used
<i>val</i>	2 - nvo3	tissa

Command Mode

- /exec/configure/configgoamprofile

obfl logging uuid msg

obfl logging uuid <uuid> <log-file> msg <log_str>

Syntax Description

Syntax Description	obfl	Perform the OBFL operation
	logging	Perform the logging
	uuid	UUID of the process
	<i>uuid</i>	UUID of the process
	<i>log-file</i>	Log File of your process
	msg	Message to be Logged in the file
	<i>log_str</i>	Type the message to be logged

Command Mode

- /exec

object-group ip address

[no] object-group ip address <name>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
object-group	Configure ACL object groups
ip	IP Object groups
address	Address object group
<i>name</i>	object-group name

Command Mode

- /exec/configure

object-group ip port

[no] object-group ip port <name>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
object-group	Configure ACL object groups
ip	IP Object groups
port	IP port object group (can be used in IPv4 and IPv6 access-lists)
<i>name</i>	object-group name

Command Mode

- /exec/configure

object-group ipv6 address

[no] object-group ipv6 address <name>

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	object-group	Configure ACL object groups
	ipv6	IPv6 Object groups
	address	Address object group
	<i>name</i>	object-group name

Command Mode

- /exec/configure

of-port interface

[no] of-port interface <ifname>

Syntax Description

Syntax Description	no (Optional) Negate a command or set its defaults
	of-port Add interfaces to openflow switch
	interface Interface
	<i>ifname</i> interface name

Command Mode

- /exec/configure/openflow/switch

offset-list route in

[no] offset-list { { route-map <map> } | { prefix-list <list> } } { in | out } <offset> <interface>

Syntax Description

Syntax Description

<i>no</i>	(Optional) Negate a command or set its defaults
<i>offset-list</i>	Add or subtract offset from EIGRP metrics
<i>route-map</i>	Use a route-map for offset-list selection
<i>map</i>	Route-map name
<i>prefix-list</i>	Use a prefix-list for offset-list selection
<i>list</i>	Reference to prefix-list name
<i>in</i>	Perform offset on incoming updates
<i>out</i>	Perform offset on outgoing updates
<i>offset</i>	Offset
<i>interface</i>	Interface name

Command Mode

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

onep

[no] onep

Syntax Description

Syntax Description	no (Optional) Negate a command or set its defaults
	onep Enable/Disable One Platform

Command Mode

- /exec/configure

onep applications

[no] onep applications <config-domain>

Syntax Description

Syntax Description

no	(Optional) Negate a command or set its defaults
onep	One Platform
applications	One platform applications
<i>config-domain</i>	Virtual service name or tag used by remote onep applications to retrieve its configuration

Command Mode

- /exec/configure

onep install

onep install <xsd-location> <config-domain>

Syntax Description

Syntax Description		
onep		One Platform
install		install a CLI definition
<i>xsd-location</i>		the xsd file containing the onep application CLI definition
<i>config-domain</i>		virtual service name or tag used by remote onep applications to retrieve its configuration

Command Mode

- /exec

onep stop

```
onep stop { session { all | <onep-session-id> } }
```

Syntax Description

Syntax Description		
onep		One Platform
stop		Stop specific activity
session		One Platform session
all		All sessions
<i>onep-session-id</i>		Specific session name

Command Mode

- /exec

onep uninstall

onep uninstall <app-name> <app-version> <config-domain> [force]

Syntax Description

Syntax Description

onep	One Platform
uninstall	uninstall a CLI definition
<i>app-name</i>	application name
<i>app-version</i>	application version
<i>config-domain</i>	virtual service name or tag used by remote onep applications to retrieve its configuration
force	(Optional) force uninstallation

Command Mode

- /exec

open-fsm

[no] open-fsm

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
open-fsm	Enable session open FSM for establishing BGP sessions

Command Mode

- /exec/configure/router-bgp

openflow

[no] openflow

Syntax Description

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

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

Syntax Description	option	Version 9 Option Templates and Data
	exporter-stats	Exporter Statistics Option
	timeout	Option resend time
	<i>time</i>	Time in seconds

Command Mode

- /exec/configure/nfm-exporter-v9

option interface-table timeout

{ [no] option interface-table timeout <time> | no option interface-table timeout }

Syntax Description

Syntax Description		
option		Version 9 Option Templates and Data
interface-table		Interface Table Option
timeout		Option resend time
<i>time</i>		Time in seconds

Command Mode

- /exec/configure/nfm-exporter-v9

option sampler-table timeout

{ [no] option sampler-table timeout <time> | no option sampler-table timeout }

Syntax Description

Syntax Description	option	Version 9 Option Templates and Data
	sampler-table	Export Sampler Information
	timeout	Option resend time
	<i>time</i>	Time in seconds

Command Mode

- /exec/configure/nfm-exporter-v9

orib event-history

```
[no] orib event-history { cli | ipc | uroute | mroute | mroute_only | uhw | mhw | ha | internal } { size {
<size_in_text> | <size_in_kbytes> } }
```

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
orib	Display ORIB information	
event-history	ORIB event logs	
cli	ORIB cli logs	
ipc	ORIB ipc logs	
uroute	ORIB unicast route logs	
mroute	ORIB multicast route logs	
mroute_only	ORIB multicast route logs without mhw	
uhw	ORIB unicast platform logs	
mhw	ORIB multicast platform logs	
ha	ORIB ha logs	
internal	ORIB internal logs	
size	Configure size	
<i>size_in_text</i>	Buffer size	
<i>size_in_kbytes</i>	Size in kbytes	

Command Mode

- /exec/configure

orib orib_api_init

```
{ orib orib_api_init <client-name> } | { orib orib_api_close } | { orib orib_add_route <client-name> <mac>
[ <nh> | <nh6> ] <if-name> } | { orib orib_delete_route <client-name> <mac> [ <nh> | <nh6> ] <if-name> }
```

Syntax Description

Syntax Description	
orib	Use ORIB API routines from OTV process
orib_api_init	Call orib_api_init() from the OTV process
orib_api_close	Call orib_api_close() from the OTV process
orib_add_route	Call orib_add_route() from OTV process
orib_delete_route	Call orib_delete_route() from OTV process
<i>client-name</i>	Client name registered to ORIB process
<i>mac</i>	VLAN-ID/MAC Address tuple in vvvv-aaaa.bbbb.cccc format
<i>nh</i>	(Optional) Next-hop IPv4 address
<i>if-name</i>	Next-hop interface (iod)

Command Mode

- /exec

ospfv3 authentication

```
ospfv3 authentication { disable | ipsec spi <spi_id> { md5 <akey> | sha1 <akey> } } | no ospfv3 authentication
{ disable | ipsec spi <spi_id> }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ospfv3		OSPFv3 configuration commands
authentication		Enable Authentication
disable		Disable Authentication
ipsec		IPSec
spi		Security Parameter Index
<i>spi_id</i>		SPI Value
md5		Use the MD5 algorithm
<i>akey</i>		Authentication Key
sha1		Use the SHA1 algorithm
<i>akey</i>		Authentication Key

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config

ospfv3 bfd

[no] ospfv3 bfd [disable]

Syntax Description

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

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

Syntax Description		
no		Negate a command or set its defaults
ospfv3		OSPFv3 configuration commands
dead-interval		Dead interval
<i>interval</i>		(seconds)

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config

ospfv3 event-history detail

[no] ospfv3 event-history detail

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ospfv3		Debugging functions
event-history	log debug events into event history buffer	
detail		Detailed event history buffer

Command Mode

- /exec/configure/router-ospf3

ospfv3 flood-bw-percentage

[no] ospfv3 flood-bw-percentage <percentage>

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
ospfv3		OSPFv3 configuration commands
flood-bw-percentage		Percentage of bandwidth used for flooding
<i>percentage</i>		Negate a command or set its defaults

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config

ospfv3 hello-interval

{ ospfv3 hello-interval <interval> } | { no ospfv3 hello-interval [<interval>] }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ospfv3		OSPFv3 configuration commands
hello-interval		Hello interval
<i>interval</i>		(seconds)

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config

ospfv3 instance

```
{ ospfv3 instance <instance-id> } | { no ospfv3 instance [ <instance-id> ] }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ospfv3		OSPFv3 configuration commands
instance		Instance identifier
<i>instance-id</i>		Instance identifier value

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config

ospfv3 mtu-ignore

[no] ospfv3 mtu-ignore

Syntax Description

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

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

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

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

Syntax Description	<i>no</i>	Negate a command or set its defaults
	<i>ospfv3</i>	OSPFv3 configuration commands
	<i>priority</i>	Router priority
	<i>prio</i>	Router priority

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config

ospfv3 retransmit-interval

```
{ ospfv3 retransmit-interval <interval> } | { no ospfv3 retransmit-interval [ <interval> ] }
```

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	ospfv3	OSPFv3 configuration commands
	retransmit-interval	Packet retransmission interval
	<i>interval</i>	(seconds)

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config

ospfv3 shutdown

[no] ospfv3 shutdown

Syntax Description

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

Syntax Description		
no		Negate a command or set its defaults
ospfv3		OSPFv3 configuration commands
transmit-delay		Packet transmission delay
<i>delay</i>		(seconds)

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config

overbudgetshut

overbudgetshut [module <module>]

Syntax Description

Syntax Description

overbudgetshut Shut down the specified LCs due to power over budget

module (Optional) Module Force Shut down

module (Optional) please enter the module number

Command Mode

- /exec

overbudgetsyslog

overbudgetsyslog

Syntax Description

Syntax Description

overbudgetsyslog Print Syslog to indicate power over budget

Command Mode

- /exec

overlay-encapsulation

[no] overlay-encapsulation <encap-type> [tunnel-control-frames [<layer2-prot>]]

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
overlay-encapsulation	NVE	Overlay Encapsulation
<i>encap-type</i>		Configure encapsulation type
tunnel-control-frames	(Optional)	tunnel protocol
<i>layer2-prot</i>	(Optional)	configure specific protocol

Command Mode

- /exec/configure/if-nve

overlay-encapsulation

[no] overlay-encapsulation <encap-type> [tunnel-control-frames]

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
overlay-encapsulation	NVE	Overlay Encapsulation
<i>encap-type</i>		Configure encapsulation type
tunnel-control-frames	(Optional)	tunnel protocol

Command Mode

- /exec/configure/if-nve

overload rip

overload rip

Syntax Description

Syntax Description

overload

rip Forced RIP
 overload

Command Mode

- /exec

owner

```
{ { no | default } owner | owner <text> }
```

Syntax Description

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



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packet

{ packet <hex-string> } | { no packet }

Syntax Description

Syntax Description

no Negate a command or set its defaults

packet Provide flow details starting with ethernet header in hex-string format: 0A1B
 ..

hex-string Specify flow and payload in hex string format: 0A1B..

Command Mode

- /exec/configure/configngoamprofileflow

param-list

[no] param-list <plistname>

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	param-list	Configure a parameter list
	<i>plistname</i>	Enter the name of the parameter list

Command Mode

- /exec/configure

parity

[no] parity { even | none | odd }

Syntax Description

Syntax Description	no (Optional) Negate a command or set its defaults
	parity Set terminal parity
	even Even parity
	none No parity
	odd Odd parity

Command Mode

- /exec/configure/com1

parity

[no] parity { even | none | odd }

Syntax Description

Syntax Description	no (Optional) Negate a command or set its defaults
	parity Set terminal parity
	even Even parity
	none No parity
	odd Odd parity

Command Mode

- /exec/configure/console

passive-interface default

[no] passive-interface default

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
passive-interface	Suppress routing updates on the interface
default	interfaces passive by default

Command Mode

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

passive-interface default

[no] passive-interface default

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
passive-interface	Suppress routing updates on the interface
default	interfaces passive by default

Command Mode

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

passive-interface default

[no] passive-interface default <level>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
passive-interface	Suppress IS-IS PDU
default	Undo a command
<i>level</i>	IS-IS level

Command Mode

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

passive-interface default

[no] passive-interface default

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
passive-interface	Suppress routing updates on the interface
default	interfaces passive by default

Command Mode

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

password

password <password-string> | { no | default } password [<password-string>]

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
default		Inherit values from a peer template
password		Configure a password for neighbor
<i>password-string</i>		Neighbor password

Command Mode

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

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

Syntax Description

no	Negate a command or set its defaults
password	Configure LDP password
vrf	(Optional) VRF Routing/Forwarding instance information
<i>vrf-name</i>	(Optional) VPN Routing/Forwarding instance name
<i>vrf-known-name</i>	(Optional) Known VRF name
required	Password is required for the peer
req-for	(Optional) Prefix list specifying control on LDP peers
<i>req-pfx-list</i>	(Optional) Prefix list for LDP peers
fallback	Specifies a fallback password will follow
option	LDP password option
<i>seq-num</i>	Sequence number of the LDP password option
opt-for	Prefix list specifying control on LDP peers
<i>opt-pfx-list</i>	Prefix list for LDP peers
key-chain	Specifies a key-chain name will follow
<i>name</i>	Key-chain name

Command Mode

- /exec/configure/ldp

password

{ [no] password <passwd> }

Syntax Description

Syntax Description

password password

passwd password

Command Mode

- /exec/configure/dot1x-cred

password prompt username

[no] password prompt username

Syntax Description

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

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

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

Syntax Description

<code>no</code>	Negate a command or set its defaults
<code>path-option</code>	a primary or fallback path setup option
<code>protect</code>	(Optional) a path protection setup option
<code>pref</code>	preference for this path option
<code>dynamic</code>	setup based on dynamically calculated path
<code>explicit</code>	setup based on preconfigured path
<code>identifier</code>	Specify an IP explicit path by number
<code>id-num</code>	Number of ip explicit path
<code>name</code>	Specify an IP explicit path by name
<code>name</code>	Name of ip explicit path
<code>attributes</code>	(Optional) Specify an LSP attribute list
<code>attr-name</code>	(Optional) Name of LSP attribute list
<code>verbatim</code>	(Optional) send out path as is, with no checking
<code>bandwidth</code>	(Optional) override the bandwidth configured on the tunnel
<code>kpbs</code>	(Optional) bandwidth requirement in kbps
<code>lockdown</code>	(Optional) not a candidate for reoptimization
<code>kpbs</code>	(Optional) bandwidth requirement in kbps
<code>lockdown</code>	(Optional) not a candidate for reoptimization

Command Mode

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

path-selection metric igp

path-selection metric { igp | te } | no path-selection metric

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
path-selection		Path Selection Configuration
metric		Metric Type Configuration
igp		Use IGP metric
te		Use TE metric (*Default)

Command Mode

- /exec/configure/te

path-selection metric igp

[no] path-selection metric | path-selection metric { igp | te }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
path-selection		Path Selection Configuration
metric		Metric type for path calculation
igp		Use IGP Metric
te		Use TE Metric

Command Mode

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

path-selection overload allow

[no] path-selection overload allow | path-selection overload allow { head [middle] [tail] | middle [tail] | tail }

Syntax Description

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 depth

[no] path <dn> depth <level> [filter-condition <filter>]

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
path		Create a sensor path
depth		Specify a retrieval depth
filter-condition	(Optional)	Specify a filter condition
<i>dn</i>		Distinguished Name
<i>level</i>		Retrieval depth (0)
<i>filter</i>	(Optional)	Filter Condition

Command Mode

- /exec/configure/telemetry/sensor-group

path next-hop out-label-stack

```
{ no path <path-num> | path <path-num> next-hop <next-hop> out-label-stack { <static-outlabel> + |
implicit-null } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
path		Configure an outgoing path for the LSP
<i>path-num</i>		Path identifier
next-hop		Nexthop
<i>next-hop</i>		Destination IPv4 next hop
out-label-stack		Series of output labels
<i>static-outlabel</i>		Label Value
implicit-null		IETF MPLS implicit null label (3)

Command Mode

- /exec/configure/mpls_static/ipv4/lsp/inlabel/forw

pathtrace nve

```
pathtrace nve { { { ip { <numeric10> | unknown } } [ vrf { <vrf-name> | <vrf-known-name> } ] { <dot1qid1>
} } } | mac <dmac> <dot1qid> <intfid> } [ profile <pid> ] [ payload { [ mac-addr <dstmac> <smac> ] [ dot1q
<dot1q-id> ] [ ip <dstip> <srcip> | ipv6 <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

Syntax Description

pathtrace	Test
nve	network virtualization edge
<i>numeric10</i>	Peer vtep ip address
unknown	Peer vtep ip is unknown, will be derived from payload
<i>intfid</i>	Name of the interface for ngoam pathtrace on which dot1q is configured
payload	(Optional) Enter customer payload
mac-addr	(Optional) Mac
<i>dstmac</i>	(Optional) Destination mac address
<i>smac</i>	(Optional) Source mac address
dot1q	(Optional) Encapsulation dot1q/bd
<i>dot1q-id</i>	(Optional) Encapsulation dot1q/bd on which the mac is learnt
ip	ip address
<i>dstip</i>	(Optional) Destination ipv4 address
<i>srcip</i>	(Optional) source ipv4 address
ipv6	(Optional) ipv6 address
port	(Optional) L4 port info
<i>sport</i>	(Optional) Source port
<i>dport</i>	(Optional) Destination port
proto	(Optional) Protocol
<i>proto-id</i>	(Optional) IANA Protocol id
src-intf	(Optional) Interface on which the host with src ip of the payload is connected
<i>src_if</i>	(Optional) Interface
payload-end	(Optional) End payload info input

<i>profile</i>	(Optional) NGOAM profile to use
<i>pid</i>	(Optional) NGOAM profile id
<i>mac</i>	Mac
<i>dmac</i>	Destination mac address
<i>dot1qid</i>	Encapsulation dot1q/bd on which the mac is learnt
<i>dot1qid1</i>	(Optional) Encapsulation dot1q/bd on which the mac is learnt
<i>vrf</i>	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>copy-to</i>	(Optional) Send responses to this IP over mgmt vrf instead
<i>copy-to-ip</i>	(Optional) IPv4 addr to send responses to
<i>ext-id</i>	(Optional) Identifier passed from caller
<i>ext_id</i>	(Optional) 32-bit identifier

Command Mode

- /exec

pause

[no] pause { buffer-size <size-in-bytes> pause-threshold <xoff-bytes> resume-threshold <xon-bytes> }

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
pause	PAUSE characteristics (CBFC)	
buffer-size	Ingress buffer size in bytes	
pause-threshold	Buffer limit for pausing in bytes	
resume-threshold	Buffer limit at which to resume in bytes	

Command Mode

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

pause

```
[no] pause { no-drop | { delayed-drop <timeout> } | { [ buffer-size <size-in-bytes> pause-threshold <xoff-bytes>
resume-threshold <xon-bytes> ] pfc-cos <pfc-cos-list> } }
```

Syntax Description

Syntax Description

no	(Optional) Negate a command or set its defaults
pause	PAUSE charecteristics (CBFC)
no-drop	NO-DROP
delayed-drop	Enable delayed-drop for the CoS
<i>timeout</i>	Timer value for delayed drop
buffer-size	(Optional) Ingress buffer size in bytes
pause-threshold	(Optional) Buffer limit for pausing in bytes
resume-threshold	(Optional) Buffer limit at which to resume in bytes
pfc-cos	CoS values to assert PFC on
<i>pfc-cos-list</i>	List of class-of-service values

Command Mode

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

pause buffer-size2 pause-threshold2 resume-threshold2

[no] pause buffer-size2 <size-in-bytes> pause-threshold2 <xoff-bytes> resume-threshold2 <xon-bytes>

Syntax Description

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

Syntax Description

no	(Optional) Negate a command or set its defaults
pause	PAUSE characteristics (CBFC)
priority-group	ingress priority-group to which the traffic is mapped and pause limits are applied
<i>priority-group-number</i>	Priority group value

Command Mode

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

payload test pattern-type pad

{ payload { test pattern-type <test-id> | pad <pad-val> } } | { no payload { test pattern-type | pad } }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
payload		Configure ngoam payload
test		Configure ngoam payload test
pattern-type		Configure ngoam payload test pattern
<i>test-id</i>		Configure ngoam payload test pattern id
pad		Configure ngoam payload test pattern pad
<i>pad-val</i>		Configure ngoam payload test pad value

Command Mode

- /exec/configure/configngoamprofile

peer-gateway

peer-gateway [exclude-vlan <vlan-list>] | no peer-gateway

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
peer-gateway	Enable L3 forwarding for packets destined to peer's gateway mac-address
exclude-vlan	(Optional) Specify VLANs to be excluded from peer-gateway functionality
<i>vlan-list</i>	(Optional) Specify the list of vlans

Command Mode

- /exec/configure/vpc-domain

peer-ip

[no] peer-ip <addr>

Syntax Description

Syntax Description	<i>no</i> (Optional) Negate a command or set its defaults
	<i>peer-ip</i> Static IP Address Configuration
	<i>addr</i> Remote Peer IP Address

Command Mode

- /exec/configure/if-nve/vni/ingr-rep

peer-keepalive destination

```
peer-keepalive destination <dst-ip> [ [ source <src-ip> | udp-port <udp-port-num> | vrf { <vrf-name> |
<vrf-known-name> } | { interval <interval-ms> timeout <time-out> } | tos-byte <tos-byte-value> | hold-timeout
<hold-time-out> ] + | [ source <src-ip> | udp-port <udp-port-num> | vrf { <vrf-name> | <vrf-known-name>
} | { interval <interval-ms> timeout <time-out> } | tos { <tos-value> | min-delay | max-throughput |
max-reliability | min-monetary-cost | normal } | hold-timeout <hold-time-out> ] + | [ source <src-ip> | udp-port
<udp-port-num> | vrf { <vrf-name> | <vrf-known-name> } | { interval <interval-ms> timeout <time-out> } |
precedence { <prec-vlaue> | network | internet | critical | flash-override | flash | immediate | priority | routine
} | hold-timeout <hold-time-out> ] + ]
```

Syntax Description

Syntax Description

peer-keepalive	Keepalive/Hello with peer switch
destination	specify destination ip address of peer switch
<i>dst-ip</i>	IPv4 address (A.B.C.D) of destination
source	(Optional) source interface for hello
<i>src-ip</i>	(Optional) IPv4 address (A.B.C.D) of source
udp-port	(Optional) enter UDP port number used for hello
<i>udp-port-num</i>	(Optional) udp port number for hellos
vrf	(Optional) vrf to be used for hello messages
<i>vrf-name</i>	(Optional) vrf to be used for hellos
<i>vrf-known-name</i>	(Optional) Known VRF name
interval	(Optional) enter interval in milleseconds
<i>interval-ms</i>	(Optional) Enter interval in milleseconds
timeout	(Optional) enter timeout in seconds
<i>time-out</i>	(Optional) enter timeout in seconds
precedence	(Optional) Precedence
<i>prec-vlaue</i>	(Optional) Precedence value
network	(Optional) network (7)
internet	(Optional) internet (6)
critical	(Optional) critical (5)
flash-override	(Optional) flash-override (4)
flash	(Optional) flash (3)

immediate	(Optional) immediate (2)
priority	(Optional) priority (1)
routine	(Optional) routine (0)
tos	(Optional) Type of Service
<i>tos-value</i>	(Optional) Enter 4-bit TOS value
min-delay	(Optional) min-delay (8)
max-throughput	(Optional) max-throughput (4)
max-reliability	(Optional) max-reliability (2)
min-monetary-cost	(Optional) min-monetary-cost (1)
normal	(Optional) normal (0)
tos-byte	(Optional) Type of Service Byte
<i>tos-byte-value</i>	(Optional) Enter 8-bit TOS value
hold-timeout	(Optional) hold timeout to ignore stale peer alive messages
<i>hold-time-out</i>	(Optional) Enter hold-timeout in seconds

Command Mode

- /exec/configure/vpc-domain

peer-switch

[no] peer-switch

Syntax Description

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

Syntax Description		
no		Negate a command or set its defaults
default		Inherit values from a peer template
peer-type		Neighbor facing
fabric-external		Fabric external
fabric-border-leaf		Fabric Border Leaf

Command Mode

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

peer-vtep

[no] peer-vtep <addr>

Syntax Description

Syntax Description	<i>no</i>	(Optional) Negate a command or set its defaults
	<i>peer-vtep</i>	Configure tunnel End Point
	<i>addr</i>	Remote VTEP IP Address

Command Mode

- /exec/configure/if-nve/vni

peer ip

[no] peer ip <ip-addr>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
peer	ITD peer
ip	ITD peer ip
<i>ip-addr</i>	NICE node IP prefix in format i.i.i.i

Command Mode

- /exec/configure/itd-inout

peer ip

[no] peer ip <ip-addr>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
peer	ITD peer
ip	ITD peer ip
<i>ip-addr</i>	NICE node IP prefix in format i.i.i.i

Command Mode

- /exec/configure/itd-inout

peer local service

[no] peer local service <service-name>

Syntax Description

Syntax Description		
	no	(Optional) Negate a command or set its defaults
	peer	Peer cli for sandwich mode failure notification
	local	Peer involved in sandwich mode
	service	Peer service involved in sandwich mode
	<i>service-name</i>	Peer service name string

Command Mode

- /exec/configure/itd

peer vdc service

[no] peer vdc <vdc-id> service <service-name>

Syntax Description

Syntax Description		
	no	(Optional) Negate a command or set its defaults
	peer	Peer cli for sandwich mode failure notification
	vdc	Peer VDC involved in sandwich mode
	service	Peer service involved in sandwich mode
	<i>vdc-id</i>	VDC name of peer VDC
	<i>service-name</i>	Peer service name string

Command Mode

- /exec/configure/itd

peer vdc service

[no] peer vdc <vdc-id> service <service-name>

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
peer		Peer cli for sandwich mode failure notification
vdc		Peer VDC involved in sandwich mode
service		Peer service involved in sandwich mode
<i>vdc-id</i>		VDC name of peer VDC
<i>service-name</i>		Peer service name string

Command Mode

- /exec/configure/itd

perf

```
perf [ { record { context-switch | profile } { system | process <i0> } [ <s1> ] } | { stop { all | <s0> } } | { list
} | { create-archive <s2> } | { remove { all | <s3> } } ]
```

Syntax Description

Syntax Description

perf	Run perf tool to collect or process event data
record	(Optional) Record events to a file for later analysis
stop	(Optional) Stop a perf record.
list	(Optional) List recorded datasets
create-archive	(Optional) Create an archive of dataset for download
remove	(Optional) Remove recorded dataset(s)
all	(Optional) Act on all recorded datasets
context-switch	(Optional) Record context-switch events
profile	(Optional) Record periodic runtime samples
system	(Optional) Record events for all processes on all CPUS
process	(Optional) Record events for a specific process with the given pid
<i>i0</i>	(Optional) pid of process to record events
<i>s0</i>	(Optional) id of perf record session to stop
<i>s1</i>	(Optional) id to use for perf record session
<i>s2</i>	(Optional) id of perf dataset to create an archive
<i>s3</i>	(Optional) id of perf dataset to remove

Command Mode

- /exec

periodic-inventory notification

[no] periodic-inventory notification

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
periodic-inventory notification	Configure periodic software inventory message dispatch
	Enable periodic software inventory message dispatch

Command Mode

- /exec/configure/callhome

periodic-inventory notification interval

```
periodic-inventory notification { interval <i0> | timeofday <s0> }
```

Syntax Description

Syntax Description

periodic-inventory	Configure periodic software inventory message dispatch
notification	Enable periodic software inventory message dispatch
interval	Configure the time period for periodic inventory
<i>i0</i>	Time period in days (default is 7 days)
timeofday	Configure the timeofday for periodic inventory in HH:MM format
<i>s0</i>	Time period in HH:MM format

Command Mode

- /exec/configure/callhome

periodic to

{ [<seqno>] | no } periodic { { Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Sunday } +
| daily | weekdays | weekend } <stime> to <etime>

Syntax Description

Syntax Description	
<i>seqno</i>	(Optional) Sequence number
no	Negate a command or set its defaults
periodic	Periodic time and date
Monday	Monday
Tuesday	Tuesday
Wednesday	Wednesday
Thursday	Thursday
Friday	Friday
Saturday	Saturday
Sunday	Sunday
daily	Every day of the week
weekdays	Monday thru Friday
weekend	Saturday and Sunday
<i>stime</i>	Starting time
to	Ending day and time
<i>etime</i>	Ending time

Command Mode

- /exec/configure/timerange

periodic to

```
{ [ <seqno> ] | no } periodic { Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Sunday }
<stime> to { <eday> } <etime>
```

Syntax Description

Syntax Description		
<i>seqno</i>	(Optional) Sequence number	
no	Negate a command or set its defaults	
periodic	Periodic time and date	
Monday	Monday	
Tuesday	Tuesday	
Wednesday	Wednesday	
Thursday	Thursday	
Friday	Friday	
Saturday	Saturday	
Sunday	Sunday	
<i>eday</i>	Day of the week	
<i>stime</i>	Starting time	
to	Ending day and time	
<i>etime</i>	Ending time	

Command Mode

- /exec/configure/timerange

permit | deny

```
{ [ <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> } + } } { [ <action> <actionid> ] } + [ log ]
```

Syntax Description

Syntax Description

<i>seqno</i>	(Optional) Sequence number
no	Negate a command or set its defaults
<i>permitdeny</i>	Permit/deny
ethertype	Configure match based on ethertype
vlan	(Optional) Configure match based on vlan
ingress_intf	(Optional) Configure match based on ingress interface
vlan_priority	(Optional) Configure match based on priority
<i>ethertypeid</i>	Configure the ethertype value
<i>vlanid</i>	(Optional) VLAN number
<i>intfid</i>	(Optional) Interface index
<i>intfname</i>	(Optional) Interface name
<i>vlanpriorityid</i>	(Optional) Vlan Priority
ip	Any IP protocol
<i>proto</i>	A protocol number
<i>ip_other_proto</i>	ip_other_proto
<i>src_any</i>	Any
<i>src_addr</i>	Source network address
<i>src_wild</i>	Source wildcard bits
<i>src_prefix</i>	Source network prefix

<i>src_key_host</i>	A single source host
<i>src_host</i>	Source address
<i>src_key_addrgrp</i>	Source address group
<i>src_addrgrp_name</i>	Address group name
<i>dst_any</i>	Any
<i>dst_addr</i>	Destination network address
<i>dst_wild</i>	Destination wildcard bits
<i>dst_prefix</i>	Destination network prefix
<i>dst_key_host</i>	A single destination host
<i>dst_host</i>	Destination address
<i>dst_key_addrgrp</i>	Destination address group
<i>dst_addrgrp_name</i>	Address group name
<i>dscp</i>	(Optional) Match packets with given dscp value
<i>dscp_num</i>	(Optional) Differentiated services codepoint value
<i>dscp_str</i>	(Optional) Differentiated services codepoint label
<i>tos</i>	(Optional) Match packets with given TOS value
<i>tos_num</i>	(Optional) Type of service value
<i>tos_str</i>	(Optional) Type of service label
<i>precedence</i>	(Optional) Match packets with given precedence value
<i>prec_num</i>	(Optional) Precedence value
<i>prec_str</i>	(Optional) Precedence label
<i>fragments</i>	(Optional) Check non-initial fragments
<i>log</i>	(Optional) Log matches against this entry
<i>time-range</i>	(Optional) Specify a time range
<i>time_range_name</i>	(Optional) Time range name
<i>packet-length</i>	(Optional) Match packets based on layer 3 packet length
<i>plen_op</i>	(Optional) Packet-length operator
<i>plen_range</i>	(Optional) Packet-length range
<i>plen0</i>	(Optional) Packet length

<i>plen1</i>	(Optional) Lower packet length
<i>plen2</i>	(Optional) Higher packet length
<i>ttl</i>	(Optional) Match Packets with a given TTL value
<i>ttl_num</i>	(Optional)
<i>capture</i>	(Optional) Enable packet capture on this filter for session
<i>session</i>	(Optional) Session ID <1-48> for this session
<i>session-id</i>	(Optional) Session ID <1-48> for this session
<i>udf</i>	(Optional) User defined field match
<i>udf_name</i>	(Optional) UDF name
<i>udf_val</i>	(Optional) UDF value to match
<i>udf_mask</i>	(Optional) Mask to apply to UDF value
<i>action</i>	(Optional) Action
<i>actionid</i>	(Optional) redirect: Ethernet1/1,port-channel1 set-erspan-dscp: <1-63> set-erspan-gre-proto: <1-65535>

Command Mode

- /exec/configure/ipacl

permit | deny

```
{ [ <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

Syntax Description

<i>seqno</i>	(Optional) Sequence number
no	Negate a command or set its defaults
<i>permitdeny</i>	Permit/deny
ethertype	Configure match based on ethertype
vlan	(Optional) Configure match based on vlan
ingress_intf	(Optional) Configure match based on ingress interface
vlan_priority	(Optional) Configure match based on priority
<i>ethertypeid</i>	Configure the ethertype value
<i>vlanid</i>	(Optional) VLAN number

<i>intfid</i>	(Optional) Interface index
<i>intfname</i>	(Optional) Interface name
<i>vlanpriorityid</i>	(Optional) Vlan Priority
<i>proto_tcp</i>	Protocol
<i>src_any</i>	Any
<i>src_addr</i>	Source network address
<i>src_wild</i>	Source wildcard bits
<i>src_prefix</i>	Source network prefix
<i>src_key_host</i>	A single source host
<i>src_host</i>	Source address
<i>src_key_addrgrp</i>	Source address group
<i>src_addrgrp_name</i>	Address group name
<i>src_port_op</i>	(Optional) Port operator
<i>src_port_range</i>	(Optional) Port range
<i>src_port0</i>	(Optional) Port number
<i>src_port0_str</i>	(Optional) TCP port
<i>src_port1</i>	(Optional) Port number
<i>src_port1_str</i>	(Optional) TCP port
<i>src_port2</i>	(Optional) Port number
<i>src_port2_str</i>	(Optional) TCP port
<i>src_portgroup</i>	(Optional) src port group
<i>src_port_group</i>	(Optional) Port group name
<i>dst_any</i>	Any
<i>dst_addr</i>	Destination network address
<i>dst_wild</i>	Destination wildcard bits
<i>dst_prefix</i>	Destination network prefix
<i>dst_key_host</i>	A single destination host
<i>dst_host</i>	Destination address
<i>dst_key_addrgrp</i>	Destination address group

<i>dst_addrgrp_name</i>	Address group name
<i>dst_port_op</i>	(Optional) Port operator
<i>dst_port_range</i>	(Optional) Port range
<i>dst_port0</i>	(Optional) Port number
<i>dst_port0_str</i>	(Optional) TCP port
<i>dst_port1</i>	(Optional) Port number
<i>dst_port1_str</i>	(Optional) TCP port
<i>dst_port2</i>	(Optional) Port number
<i>dst_port2_str</i>	(Optional) TCP port
<i>dst_portgroup</i>	(Optional) dst port group
<i>dst_port_group</i>	(Optional) Port group name
<i>dscp</i>	(Optional) Match packets with given dscp value
<i>dscp_num</i>	(Optional) Differentiated services codepoint value
<i>dscp_str</i>	(Optional) Differentiated services codepoint label
<i>tos</i>	(Optional) Match packets with given TOS value
<i>tos_num</i>	(Optional) Type of service value
<i>tos_str</i>	(Optional) Type of service label
<i>precedence</i>	(Optional) Match packets with given precedence value
<i>prec_num</i>	(Optional) Precedence value
<i>prec_str</i>	(Optional) Precedence label
<i>fragments</i>	(Optional) Check non-initial fragments
<i>log</i>	(Optional) Log matches against this entry
<i>time-range</i>	(Optional) Specify a time range
<i>time_range_name</i>	(Optional) Time range name
<i>packet-length</i>	(Optional) Match packets based on layer 3 packet length
<i>plen_op</i>	(Optional) Packet-length operator
<i>plen_range</i>	(Optional) Packet-length range
<i>plen0</i>	(Optional) Packet length
<i>plen1</i>	(Optional) Lower packet length

<i>plen2</i>	(Optional) Higher packet length
<i>ttl</i>	(Optional) Match Packets with a given TTL value
<i>ttl_num</i>	(Optional)
<i>tcp-option-length</i>	(Optional) Specify TCP Options size
<i>tcp_opt_len</i>	(Optional) TCP option length (multiples of 4 bytes)
<i>tcp-flags-mask</i>	(Optional) Specify TCP Flags
<i>tcp_flags_mask</i>	(Optional) TCP flags mask
<i>http-method</i>	(Optional) Match packets based on http-method
<i>opt_num</i>	(Optional) http_option value
<i>opt_str</i>	(Optional) http_option_param
<i>packet-length</i>	(Optional) Match packets based on layer 3 packet length
<i>plen_op</i>	(Optional) Packet-length operator
<i>plen_range</i>	(Optional) Packet-length range
<i>plen0</i>	(Optional) Packet length
<i>plen1</i>	(Optional) Lower packet length
<i>plen2</i>	(Optional) Higher packet length
<i>urg</i>	(Optional) Match on the URG bit
<i>ack</i>	(Optional) Match on the ACK bit
<i>psb</i>	(Optional) Match on the PSB bit
<i>rst</i>	(Optional) Match on the RST bit
<i>syn</i>	(Optional) Match on the SYN bit
<i>fin</i>	(Optional) Match on the FIN bit
<i>established</i>	(Optional) Match established connections
<i>udf</i>	(Optional) User defined field match
<i>udf_name</i>	(Optional) UDF name
<i>udf_val</i>	(Optional) UDF value to match
<i>udf_mask</i>	(Optional) Mask to apply to UDF value
<i>capture</i>	(Optional) Enable packet capture on this filter for session
<i>session</i>	(Optional) Session ID <1-48> for this session

<i>session-id</i>	(Optional) Session ID <1-48> for this session
<i>action</i>	(Optional) Action
<i>actionid</i>	(Optional) redirect: Ethernet1/1,port-channel1 set-erspan-dscp: <1-63> set-erspan-gre-protocol: <1-65535>

Command Mode

- /exec/configure/ipacl

permit | deny

```
{ [ <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> } + } ] # 2007 ../feature/acl_mgr/cli/aclmgr.cmd [ capture
session <session-id> ] { [ <action> <actionid> ] } + [ log ]
```

Syntax Description

Syntax Description

<i>seqno</i>	(Optional) Sequence number
no	Negate a command or set its defaults
<i>permitdeny</i>	Permit/deny
ethertype	Configure match based on ethertype
vlan	(Optional) Configure match based on vlan
ingress_intf	(Optional) Configure match based on ingress interface
vlan_priority	(Optional) Configure match based on priority
<i>ethertypeid</i>	Configure the ethertype value
<i>vlanid</i>	(Optional) VLAN number
<i>intfid</i>	(Optional) Interface index
<i>intfname</i>	(Optional) Interface name

<i>vlanpriorityid</i>	(Optional) Vlan Priority
<i>proto_udp</i>	Protocol
<i>src_any</i>	Any
<i>src_addr</i>	Source network address
<i>src_wild</i>	Source wildcard bits
<i>src_prefix</i>	Source network prefix
<i>src_key_host</i>	A single source host
<i>src_host</i>	Source address
<i>src_key_addrgrp</i>	Source address group
<i>src_addrgrp_name</i>	Address group name
<i>src_port_op</i>	(Optional) Port operator
<i>src_port_range</i>	(Optional) Port range
<i>src_port0</i>	(Optional) Port number
<i>src_port0_str</i>	(Optional) UDP port
<i>src_port1</i>	(Optional) Port number
<i>src_port1_str</i>	(Optional) UDP port
<i>src_port2</i>	(Optional) Port number
<i>src_port2_str</i>	(Optional) UDP port
<i>src_portgroup</i>	(Optional) src port group
<i>src_port_group</i>	(Optional) Port group name
<i>dst_any</i>	Any
<i>dst_addr</i>	Destination network address
<i>dst_wild</i>	Destination wildcard bits
<i>dst_prefix</i>	Destination network prefix
<i>dst_key_host</i>	A single destination host
<i>dst_host</i>	Destination address
<i>dst_key_addrgrp</i>	Destination address group
<i>dst_addrgrp_name</i>	Address group name
<i>dst_port_op</i>	(Optional) Port operator

<i>dst_port_range</i>	(Optional) Port range
<i>dst_port0</i>	(Optional) Port number
<i>dst_port0_str</i>	(Optional) UDP port
<i>dst_port1</i>	(Optional) Port number
<i>dst_port1_str</i>	(Optional) UDP port
<i>dst_port2</i>	(Optional) Port number
<i>dst_port2_str</i>	(Optional) UDP port
<i>dst_portgroup</i>	(Optional) dst port group
<i>dst_port_group</i>	(Optional) Port group name
<i>dscp</i>	(Optional) Match packets with given dscp value
<i>dscp_num</i>	(Optional) Differentiated services codepoint value
<i>dscp_str</i>	(Optional) Differentiated services codepoint label
<i>tos</i>	(Optional) Match packets with given TOS value
<i>tos_num</i>	(Optional) Type of service value
<i>tos_str</i>	(Optional) Type of service label
<i>precedence</i>	(Optional) Match packets with given precedence value
<i>prec_num</i>	(Optional) Precedence value
<i>prec_str</i>	(Optional) Precedence label
<i>fragments</i>	(Optional) Check non-initial fragments
<i>log</i>	(Optional) Log matches against this entry
<i>time-range</i>	(Optional) Specify a time range
<i>time_range_name</i>	(Optional) Time range name
<i>packet-length</i>	(Optional) Match packets based on layer 3 packet length
<i>plen_op</i>	(Optional) Packet-length operator
<i>plen_range</i>	(Optional) Packet-length range
<i>plen0</i>	(Optional) Packet length
<i>plen1</i>	(Optional) Lower packet length
<i>plen2</i>	(Optional) Higher packet length
<i>ttl</i>	(Optional) Match Packets with a given TTL value

<i>ttl_num</i>	(Optional)
<i>nve</i>	(Optional) VNI ID <0-16777215>
<i>vni</i>	(Optional) VNI ID <0-16777215>
<i>vni-id</i>	(Optional) VNI ID <0-16777215>
<i>udf</i>	(Optional) User defined field match
<i>udf_name</i>	(Optional) UDF name
<i>udf_val</i>	(Optional) UDF value to match
<i>udf_mask</i>	(Optional) Mask to apply to UDF value
<i>capture</i>	(Optional) Enable packet capture on this filter for session
<i>session</i>	(Optional) Session ID <1-48> for this session
<i>session-id</i>	(Optional) Session ID <1-48> for this session
<i>action</i>	(Optional) Action
<i>actionid</i>	(Optional) redirect: Ethernet1/1,port-channel1 set-erspan-dscp: <1-63> set-erspan-gre-proto: <1-65535>

Command Mode

- /exec/configure/ipacl

permit | deny

```
{ [ <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

Syntax Description

<i>seqno</i>	(Optional) Sequence number
<i>no</i>	Negate a command or set its defaults
<i>permitdeny</i>	Permit/deny
<i>proto_igmp</i>	Protocol
<i>src_any</i>	Any
<i>src_addr</i>	Source network address
<i>src_wild</i>	Source wildcard bits
<i>src_prefix</i>	Source network prefix
<i>src_key_host</i>	A single source host
<i>src_host</i>	Source address
<i>src_key_addrgrp</i>	Source address group
<i>src_addrgrp_name</i>	Address group name
<i>dst_any</i>	Any
<i>dst_addr</i>	Destination network address
<i>dst_wild</i>	Destination wildcard bits

<i>dst_prefix</i>	Destination network prefix
<i>dst_key_host</i>	A single destination host
<i>dst_host</i>	Destination address
<i>dst_key_addrgrp</i>	Destination address group
<i>dst_addrgrp_name</i>	Address group name
<i>dscp</i>	(Optional) Match packets with given dscp value
<i>dscp_num</i>	(Optional) Differentiated services codepoint value
<i>dscp_str</i>	(Optional) Differentiated services codepoint label
<i>tos</i>	(Optional) Match packets with given TOS value
<i>tos_num</i>	(Optional) Type of service value
<i>tos_str</i>	(Optional) Type of service label
<i>precedence</i>	(Optional) Match packets with given precedence value
<i>prec_num</i>	(Optional) Precedence value
<i>prec_str</i>	(Optional) Precedence label
<i>fragments</i>	(Optional) Check non-initial fragments
<i>log</i>	(Optional) Log matches against this entry
<i>time-range</i>	(Optional) Specify a time range
<i>time_range_name</i>	(Optional) Time range name
<i>packet-length</i>	(Optional) Match packets based on layer 3 packet length
<i>plen_op</i>	(Optional) Packet-length operator
<i>plen_range</i>	(Optional) Packet-length range
<i>plen0</i>	(Optional) Packet length
<i>plen1</i>	(Optional) Lower packet length
<i>plen2</i>	(Optional) Higher packet length
<i>ttl</i>	(Optional) Match Packets with a given TTL value
<i>ttl_num</i>	(Optional)
<i>igmp_num</i>	(Optional) IGMP message type
<i>igmp_str</i>	(Optional) IGMP type
<i>capture</i>	(Optional) Enable packet capture on this filter for session

<i>session</i>	(Optional) Session ID <1-48> for this session
<i>session-id</i>	(Optional) Session ID <1-48> for this session
<i>action</i>	(Optional) Action
<i>actionid</i>	(Optional) redirect: Ethernet1/1,port-channel1 set-erspan-dscp: <1-63> set-erspan-gre-proto: <1-65535>

Command Mode

- /exec/configure/ipacl

permit | deny

```
{ [ <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

Syntax Description

<i>seqno</i>	(Optional) Sequence number
no	Negate a command or set its defaults
<i>permitdeny</i>	Permit/deny
ethertype	Configure match based on ethertype
vlan	(Optional) Configure match based on vlan
ingress_intf	(Optional) Configure match based on ingress interface
vlan_priority	(Optional) Configure match based on priority
<i>ethertypeid</i>	Configure the ethertype value
<i>vlanid</i>	(Optional) VLAN number
<i>intfid</i>	(Optional) Interface index
<i>intfname</i>	(Optional) Interface name
<i>vlanpriorityid</i>	(Optional) Vlan Priority
<i>proto_icmp</i>	Protocol
<i>src_any</i>	Any

<i>src_addr</i>	Source network address
<i>src_wild</i>	Source wildcard bits
<i>src_prefix</i>	Source network prefix
<i>src_key_host</i>	A single source host
<i>src_host</i>	Source address
<i>src_key_addrgrp</i>	Source address group
<i>src_addrgrp_name</i>	Address group name
<i>dst_any</i>	Any
<i>dst_addr</i>	Destination network address
<i>dst_wild</i>	Destination wildcard bits
<i>dst_prefix</i>	Destination network prefix
<i>dst_key_host</i>	A single destination host
<i>dst_host</i>	Destination address
<i>dst_key_addrgrp</i>	Destination address group
<i>dst_addrgrp_name</i>	Address group name
<i>dscp</i>	(Optional) Match packets with given dscp value
<i>dscp_num</i>	(Optional) Differentiated services codepoint value
<i>dscp_str</i>	(Optional) Differentiated services codepoint label
<i>tos</i>	(Optional) Match packets with given TOS value
<i>tos_num</i>	(Optional) Type of service value
<i>tos_str</i>	(Optional) Type of service label
<i>precedence</i>	(Optional) Match packets with given precedence value
<i>prec_num</i>	(Optional) Precedence value
<i>prec_str</i>	(Optional) Precedence label
<i>fragments</i>	(Optional) Check non-initial fragments
<i>log</i>	(Optional) Log matches against this entry
<i>time-range</i>	(Optional) Specify a time range
<i>time_range_name</i>	(Optional) Time range name
<i>packet-length</i>	(Optional) Match packets based on layer 3 packet length

<i>plen_op</i>	(Optional) Packet-length operator
<i>plen_range</i>	(Optional) Packet-length range
<i>plen0</i>	(Optional) Packet length
<i>plen1</i>	(Optional) Lower packet length
<i>plen2</i>	(Optional) Higher packet length
<i>ttl</i>	(Optional) Match Packets with a given TTL value
<i>ttl_num</i>	(Optional)
<i>icmp_type</i>	(Optional) ICMP message type
<i>icmp_code</i>	(Optional) ICMP message code
<i>icmp_str</i>	(Optional) ICMP label
<i>capture</i>	(Optional) Enable packet capture on this filter for session
<i>session</i>	(Optional) Session ID <1-48> for this session
<i>session-id</i>	(Optional) Session ID <1-48> for this session
<i>action</i>	(Optional) Action
<i>actionid</i>	(Optional) redirect: Ethernet1/1,port-channel1 set-erspan-dscp: <1-63> set-erspan-gre-proto: <1-65535>

Command Mode

- /exec/configure/ipacl

permit | deny

```
{ [ <seqno> ] | no } <permitdeny> <proto_tcp> { { { <src_any> | { <src_addr> <src_wild> } | <src_prefix>
| { src_key_host <src_host> } | { src_key_addrgrp <src_addrgrp_name> } } [ { { <src_port_op> { <src_port0>
| <src_port0_str> } } | { <src_port_range> { <src_port1> | <src_port1_str> } { <src_port2> | <src_port2_str>
} } | src_portgroup <src_port_group> } ] { <dst_any> | { <dst_addr> <dst_wild> } | <dst_prefix> | {
dst_key_host <dst_host> } | { dst_key_addrgrp <dst_addrgrp_name> } } [ { { <dst_port_op> { <dst_port0>
| <dst_port0_str> } } | { <dst_port_range> { <dst_port1> | <dst_port1_str> } { <dst_port2> | <dst_port2_str>
} } | dst_portgroup <dst_port_group> } ] [ { { dscp { <dscp_num> | <dscp_str> } } ] [ { flow-label
<flow_num> } ] [ log ] [ time-range <time_range_name> ] [ urg | ack | psh | rst | syn | fin | established ] | {
tcp-flags-mask <tcp_flags_mask> } | [ packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2>
} ] ] + } | { { <src_any> | { <src_addr> <src_wild> } | <src_prefix> | { src_key_host <src_host> } | {
src_key_addrgrp <src_addrgrp_name> } } { <dst_any> | { <dst_addr> <dst_wild> } | <dst_prefix> | {
dst_key_host <dst_host> } | { dst_key_addrgrp <dst_addrgrp_name> } } { { { dscp { <dscp_num> | <dscp_str>
} } ] [ { flow-label <flow_num> } ] [ fragments ] [ log ] [ time-range <time_range_name> ] [ packet-length
{ <plen_op> <plen0> | <plen_range> <plen1> <plen2> } ] ] + } } [ capture session <session-id> ] [ [
<actionv6> <actionidv6> ] ] }
```

Syntax Description

Syntax Description

<i>seqno</i>	(Optional) Sequence number
<i>no</i>	Negate a command or set its defaults
<i>permitdeny</i>	Permit/deny
<i>proto_tcp</i>	Protocol
<i>src_any</i>	Any
<i>src_key_host</i>	A single source host
<i>src_key_addrgrp</i>	Source address group
<i>src_addrgrp_name</i>	Address group name
<i>src_port_op</i>	(Optional) Port operator
<i>src_port_range</i>	(Optional) Port range
<i>src_port0</i>	(Optional) Port number
<i>src_port0_str</i>	(Optional) TCP port
<i>src_port1</i>	(Optional) Port number
<i>src_port1_str</i>	(Optional) TCP port
<i>src_port2</i>	(Optional) Port number
<i>src_port2_str</i>	(Optional) TCP port
<i>src_portgroup</i>	(Optional) src port group

<i>src_port_group</i>	(Optional) Port group name
<i>dst_any</i>	Any
<i>dst_key_host</i>	A single destination host
<i>dst_key_addrgrp</i>	Destination address group
<i>dst_addrgrp_name</i>	Address group name
<i>dst_port_op</i>	(Optional) Port operator
<i>dst_port_range</i>	(Optional) Port range
<i>dst_port0</i>	(Optional) Port number
<i>dst_port0_str</i>	(Optional) TCP port
<i>dst_port1</i>	(Optional) Port number
<i>dst_port1_str</i>	(Optional) TCP port
<i>dst_port2</i>	(Optional) Port number
<i>dst_port2_str</i>	(Optional) TCP port
<i>dst_portgroup</i>	(Optional) dst port group
<i>dst_port_group</i>	(Optional) Port group name
<i>dscp</i>	(Optional) Match packets with given dscp value
<i>dscp_num</i>	(Optional) Differentiated services codepoint value
<i>dscp_str</i>	(Optional) Differentiated services codepoint label
<i>flow-label</i>	(Optional) Flow label
<i>flow_num</i>	(Optional) Flow label value
<i>fragments</i>	(Optional) Check non-initial fragments
<i>log</i>	(Optional) Log matches against this entry
<i>time-range</i>	(Optional) Specify a time range
<i>time_range_name</i>	(Optional) Time range name
<i>packet-length</i>	(Optional) Match packets based on layer 3 packet length
<i>plen_op</i>	(Optional) Packet-length operator
<i>plen_range</i>	(Optional) Packet-length range
<i>plen0</i>	(Optional) Packet length
<i>plen1</i>	(Optional) Lower packet length

<i>plen2</i>	(Optional) Higher packet length
<i>tcp-flags-mask</i>	Specify TCP Flags
<i>tcp_flags_mask</i>	TCP flags mask
<i>urg</i>	(Optional) Match on the URG bit
<i>ack</i>	(Optional) Match on the ACK bit
<i>psh</i>	(Optional) Match on the PSH bit
<i>rst</i>	(Optional) Match on the RST bit
<i>syn</i>	(Optional) Match on the SYN bit
<i>fin</i>	(Optional) Match on the FIN bit
<i>established</i>	(Optional) Match established connections
<i>capture</i>	(Optional) Enable packet capture on this filter for session
<i>session</i>	(Optional) Session ID <1-48> for this session
<i>session-id</i>	(Optional) Session ID <1-48> for this session
<i>actionv6</i>	(Optional) ActionV6
<i>actionidv6</i>	(Optional) redirect: Ethernet1/1,port-channel1 set-erspan-dscp: <1-63> set-erspan-gre-proto: <1-65535>

Command Mode

- /exec/configure/ipv6acl

permit | deny

```
{ [ <seqno> ] no } <permitdeny> <proto_udp> { { { <src_any> | { <src_addr> <src_wild> } | <src_prefix>
| { src_key_host <src_host> } | { src_key_addrgrp <src_addrgrp_name> } } [ { { <src_port_op> { <src_port0>
| <src_port0_str> } } | { <src_port_range> { <src_port1> | <src_port1_str> } { <src_port2> | <src_port2_str>
} } | src_portgroup <src_port_group> } ] { <dst_any> | { <dst_addr> <dst_wild> } | <dst_prefix> | {
dst_key_host <dst_host> } | { dst_key_addrgrp <dst_addrgrp_name> } } [ { { <dst_port_op> { <dst_port0>
| <dst_port0_str> } } | { <dst_port_range> { <dst_port1> | <dst_port1_str> } { <dst_port2> | <dst_port2_str>
} } | dst_portgroup <dst_port_group> } ] [ { { dscp { <dscp_num> | <dscp_str> } } ] [ { flow-label <flow_num>
} ] [ log ] [ time-range <time_range_name> ] [ packet-length { <plen_op> <plen0> | <plen_range> <plen1>
<plen2> } ] + } [ nve vni <vni-id> ] | { { <src_any> | { <src_addr> <src_wild> } | <src_prefix> | {
src_key_host <src_host> } | { src_key_addrgrp <src_addrgrp_name> } } { <dst_any> | { <dst_addr> <dst_wild>
} | <dst_prefix> | { dst_key_host <dst_host> } | { dst_key_addrgrp <dst_addrgrp_name> } } [ { { dscp {
<dscp_num> | <dscp_str> } } ] [ { flow-label <flow_num> } ] [ fragments ] [ log ] [ time-range
<time_range_name> ] [ packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> } ] + } ]
nve vni <vni-id> ] [ capture session <session-id> ] [ { <actionv6> <actionidv6> } ] }
```

Syntax Description

Syntax Description

<i>seqno</i>	(Optional) Sequence number
no	Negate a command or set its defaults
<i>permitdeny</i>	Permit/deny
<i>proto_udp</i>	Protocol
<i>src_any</i>	Any
src_key_host	A single source host
src_key_addrgrp	Source address group
<i>src_addrgrp_name</i>	Address group name
<i>src_port_op</i>	(Optional) Port operator
<i>src_port_range</i>	(Optional) Port range
<i>src_port0</i>	(Optional) Port number
<i>src_port0_str</i>	(Optional) UDP port
<i>src_port1</i>	(Optional) Port number
<i>src_port1_str</i>	(Optional) UDP port
<i>src_port2</i>	(Optional) Port number
<i>src_port2_str</i>	(Optional) UDP port
src_portgroup	(Optional) src port group

<i>src_port_group</i>	(Optional) Port group name
<i>dst_any</i>	Any
<i>dst_key_host</i>	A single destination host
<i>dst_key_addrgrp</i>	Destination address group
<i>dst_addrgrp_name</i>	Address group name
<i>dst_port_op</i>	(Optional) Port operator
<i>dst_port_range</i>	(Optional) Port range
<i>dst_port0</i>	(Optional) Port number
<i>dst_port0_str</i>	(Optional) UDP port
<i>dst_port1</i>	(Optional) Port number
<i>dst_port1_str</i>	(Optional) UDP port
<i>dst_port2</i>	(Optional) Port number
<i>dst_port2_str</i>	(Optional) UDP port
<i>dst_portgroup</i>	(Optional) dst port group
<i>dst_port_group</i>	(Optional) Port group name
<i>dscp</i>	(Optional) Match packets with given dscp value
<i>dscp_num</i>	(Optional) Differentiated services codepoint value
<i>dscp_str</i>	(Optional) Differentiated services codepoint label
<i>flow-label</i>	(Optional) Flow label
<i>flow_num</i>	(Optional) Flow label value
<i>fragments</i>	(Optional) Check non-initial fragments
<i>log</i>	(Optional) Log matches against this entry
<i>time-range</i>	(Optional) Specify a time range
<i>time_range_name</i>	(Optional) Time range name
<i>packet-length</i>	(Optional) Match packets based on layer 3 packet length
<i>plen_op</i>	(Optional) Packet-length operator
<i>plen_range</i>	(Optional) Packet-length range
<i>plen0</i>	(Optional) Packet length
<i>plen1</i>	(Optional) Lower packet length

<i>plen2</i>	(Optional) Higher packet length
<i>capture</i>	(Optional) Enable packet capture on this filter for session
<i>session</i>	(Optional) Session ID <1-48> for this session
<i>session-id</i>	(Optional) Session ID <1-48> for this session
<i>nve</i>	(Optional) VNI ID <0-16777215>
<i>vni</i>	(Optional) VNI ID <0-16777215>
<i>vni-id</i>	(Optional) VNI ID <0-16777215>
<i>actionv6</i>	(Optional) ActionV6
<i>actionidv6</i>	(Optional) redirect: Ethernet1/1,port-channel1 set-erspan-dscp: <1-63> set-erspan-gre-proto: <1-65535>

Command Mode

- /exec/configure/ipv6acl

permit | deny

```
{ [ <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> } ] ] + } [ capture session <session-id> ] }
```

Syntax Description

Syntax Description

<i>seqno</i>	(Optional) Sequence number
no	Negate a command or set its defaults
<i>permitdeny</i>	Permit/deny
<i>proto_sctp</i>	Protocol
<i>src_any</i>	Any
<i>src_key_host</i>	A single source host
<i>src_key_addrgrp</i>	Source address group
<i>src_addrgrp_name</i>	Address group name
<i>src_port_op</i>	(Optional) Port operator
<i>src_port_range</i>	(Optional) Port range
<i>src_port0</i>	(Optional) Port number
<i>src_port0_str</i>	(Optional) SCTP port
<i>src_port1</i>	(Optional) Port number
<i>src_port1_str</i>	(Optional) SCTP port
<i>src_port2</i>	(Optional) Port number
<i>src_port2_str</i>	(Optional) SCTP port
<i>src_portgroup</i>	(Optional) src port group
<i>src_port_group</i>	(Optional) Port group name

<i>dst_any</i>	Any
<i>dst_key_host</i>	A single destination host
<i>dst_key_addrgrp</i>	Destination address group
<i>dst_addrgrp_name</i>	Address group name
<i>dst_port_op</i>	(Optional) Port operator
<i>dst_port_range</i>	(Optional) Port range
<i>dst_port0</i>	(Optional) Port number
<i>dst_port0_str</i>	(Optional) SCTP port
<i>dst_port1</i>	(Optional) Port number
<i>dst_port1_str</i>	(Optional) SCTP port
<i>dst_port2</i>	(Optional) Port number
<i>dst_port2_str</i>	(Optional) SCTP port
<i>dst_portgroup</i>	(Optional) dst port group
<i>dst_port_group</i>	(Optional) Port group name
<i>dscp</i>	(Optional) Match packets with given dscp value
<i>dscp_num</i>	(Optional) Differentiated services codepoint value
<i>dscp_str</i>	(Optional) Differentiated services codepoint label
<i>flow-label</i>	(Optional) Flow label
<i>flow_num</i>	(Optional) Flow label value
<i>fragments</i>	(Optional) Check non-initial fragments
<i>log</i>	(Optional) Log matches against this entry
<i>time-range</i>	(Optional) Specify a time range
<i>time_range_name</i>	(Optional) Time range name
<i>packet-length</i>	(Optional) Match packets based on layer 3 packet length
<i>plen_op</i>	(Optional) Packet-length operator
<i>plen_range</i>	(Optional) Packet-length range
<i>plen0</i>	(Optional) Packet length
<i>plen1</i>	(Optional) Lower packet length
<i>plen2</i>	(Optional) Higher packet length

<code>capture</code>	(Optional) Enable packet capture on this filter for session
<code>session</code>	(Optional) Session ID <1-48> for this session
<code>session-id</code>	(Optional) Session ID <1-48> for this session

Command Mode

- /exec/configure/ipv6acl

permit | deny

```
{ [ <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> } ] } ] + } [ capture session <session-id> ] { [ <actionv6>
<actionidv6> ] } }
```

Syntax Description

Syntax Description

<i>seqno</i>	(Optional) Sequence number
no	Negate a command or set its defaults
<i>permitdeny</i>	Permit/deny
<i>proto_icmpv6</i>	Protocol
<i>src_any</i>	Any
src_key_host	A single source host
src_key_addrgrp	Source address group
<i>src_addrgrp_name</i>	Address group name
<i>dst_any</i>	Any
dst_key_host	A single destination host
dst_key_addrgrp	Destination address group
<i>dst_addrgrp_name</i>	Address group name
dscp	(Optional) Match packets with given dscp value
<i>dscp_num</i>	(Optional) Differentiated services codepoint value
<i>dscp_str</i>	(Optional) Differentiated services codepoint label
flow-label	(Optional) Flow label
<i>flow_num</i>	(Optional) Flow label value
fragments	(Optional) Check non-initial fragments

<i>log</i>	(Optional) Log matches against this entry
<i>time-range</i>	(Optional) Specify a time range
<i>time_range_name</i>	(Optional) Time range name
<i>packet-length</i>	(Optional) Match packets based on layer 3 packet length
<i>plen_op</i>	(Optional) Packet-length operator
<i>plen_range</i>	(Optional) Packet-length range
<i>plen0</i>	(Optional) Packet length
<i>plen1</i>	(Optional) Lower packet length
<i>plen2</i>	(Optional) Higher packet length
<i>icmpv6_type</i>	(Optional) ICMPv6 message type
<i>icmpv6_code</i>	(Optional) ICMPv6 message code
<i>icmpv6_str</i>	(Optional) ICMPv6 label
<i>capture</i>	(Optional) Enable packet capture on this filter for session
<i>session</i>	(Optional) Session ID <1-48> for this session
<i>session-id</i>	(Optional) Session ID <1-48> for this session
<i>actionv6</i>	(Optional) ActionV6
<i>actionidv6</i>	(Optional) redirect: Ethernet1/1,port-channel1 set-erspan-dscp: <1-63> set-erspan-gre-proto: <1-65535>

Command Mode

- /exec/configure/ipv6acl

permit | deny

```
{ { [ <seqno> ] | no } <permitdeny> { { [ <arp_request> ] req_ip { <sender1_ip_any> | { { <sender1_host>
<sender1_ip> | { <sender1_net_ip> <sender1_ip_mask> } } } } mac { <sender1_mac_any> | { {
<sender1_mac_host> <sender1_mac> | { <sender1_net_mac> <sender1_mac_mask> } } } } } | {
<arp_response> resp_ip { <sender2_ip_any> | { { <sender2_host> <sender2_ip> | { <sender2_net_ip>
<sender2_ip_mask> } } } } { <target_ip_any> | { { <target_host> <target_ip> | { <target_net_ip>
<target_ip_mask> } } } } mac { <sender2_mac_any> | { { <sender2_mac_host> <sender2_mac> | {
<sender2_net_mac> <sender2_mac_mask> } } } } [ { <target_mac_any> | { { <target_mac_host> <target_mac>
| { <target_net_mac> <target_mac_mask> } } } } ] } [ <arp_log> ] [ capture session <session-id> ] }
```

Syntax Description

Syntax Description

<i>seqno</i>	(Optional) Sequence number
no	Negate a command or set its defaults
<i>permitdeny</i>	Permit/deny
<i>req_ip</i>	Any IP protocol
<i>resp_ip</i>	Any IP protocol
<i>arp_request</i>	(Optional) ARP_Request
<i>arp_response</i>	ARP_Response
<i>sender1_ip_any</i>	Any
<i>sender1_host</i>	Host
<i>sender1_ip</i>	IP address <a.b.c.d>
<i>sender1_net_ip</i>	IP address <a.b.c.d>
<i>sender1_ip_mask</i>	IP mask <a.b.c.d>
<i>sender2_ip_any</i>	Any
<i>sender2_host</i>	Host
<i>sender2_ip</i>	IP address <a.b.c.d>
<i>sender2_net_ip</i>	IP address <a.b.c.d>
<i>sender2_ip_mask</i>	IP mask <a.b.c.d>
<i>target_ip_any</i>	Any
<i>target_host</i>	Host
<i>target_ip</i>	IP address <a.b.c.d>
<i>target_net_ip</i>	IP address <a.b.c.d>

<i>target_ip_mask</i>	IP mask <a.b.c.d>
<i>mac</i>	MAC configuration commands
<i>sender1_mac_any</i>	Any
<i>sender1_mac_host</i>	Host
<i>sender1_mac</i>	MAC address EEEE.EEEE.EEEE
<i>sender1_net_mac</i>	MAC address EEEE.EEEE.EEEE
<i>sender1_mac_mask</i>	MAC mask EEEE.EEEE.EEEE
<i>sender2_mac_any</i>	Any
<i>sender2_mac_host</i>	Host
<i>sender2_mac</i>	MAC address EEEE.EEEE.EEEE
<i>sender2_net_mac</i>	MAC address EEEE.EEEE.EEEE
<i>sender2_mac_mask</i>	MAC mask EEEE.EEEE.EEEE
<i>target_mac_any</i>	(Optional) Any
<i>target_mac_host</i>	(Optional) Host
<i>target_mac</i>	(Optional) MAC address EEEE.EEEE.EEEE
<i>target_net_mac</i>	(Optional) MAC address EEEE.EEEE.EEEE
<i>target_mac_mask</i>	(Optional) MAC mask EEEE.EEEE.EEEE
<i>arp_log</i>	(Optional) Log
<i>capture</i>	(Optional) Enable packet capture on this filter for session
<i>session</i>	(Optional) Session ID <1-48> for this session
<i>session-id</i>	(Optional) Session ID <1-48> for this session

Command Mode

- /exec/configure/arpacl

permit | deny

```
{ [ <seqno> ] | no } { <addr> <wild> | <prefix> | host <hostaddr> }
```

Syntax Description

Syntax Description

<i>seqno</i>	(Optional) Sequence number
<i>no</i>	Negate a command or set its defaults
<i>addr</i>	A.B.C.D Network address of object-group member
<i>wild</i>	A.B.C.D wildcard
<i>prefix</i>	A.B.C.D/mn Network prefix of the object-group member
<i>host</i>	Host address of the object-group member
<i>hostaddr</i>	A.B.C.D Host address

Command Mode

- /exec/configure/ipgroup

permit | deny

{ [<seqno>] | no } { <addr> <wild> | <prefix> | host <hostaddr> }

Syntax Description

Syntax Description	<i>seqno</i> (Optional) Sequence number
	no Negate a command or set its defaults
	host Host address of the object-group member

Command Mode

- /exec/configure/ipv6group

permit | deny

```
{ [ <seqno> ] | no } { <_port_op> <port0_num> | <_port_range> <port1_num> <port2_num> }
```

Syntax Description

Syntax Description		
	<i>seqno</i>	(Optional) Sequence number
	no	Negate a command or set its defaults
	<i>_port_op</i>	Port operator
	<i>_port_range</i>	Port range
	<i>port0_num</i>	Port number
	<i>port1_num</i>	Port number
	<i>port2_num</i>	Port number

Command Mode

- /exec/configure/portgroup

permit | deny

```
{ [ <seqno> ] | no } <permitdeny> { <src_any> | { <src_addr> <src_wild> } } { <dst_any> | { <dst_addr> <dst_wild> } } [ <mac_proto> | <mac_proto_str> ] [ vlan <vlan> | cos <cos> ] + [ time-range <time_range_name> ] [ capture session <session-id> ] { [ <macaction> <macactionid> ] } +
```

Syntax Description

Syntax Description

<i>seqno</i>	(Optional) Sequence number
no	Negate a command or set its defaults
<i>permitdeny</i>	Permit/deny
<i>src_any</i>	Any
<i>src_addr</i>	Source MAC address
<i>src_wild</i>	Source wildcard bits
<i>dst_any</i>	Any
<i>dst_addr</i>	Destination MAC address
<i>dst_wild</i>	Destination wildcard bits
<i>mac_proto</i>	(Optional) MAC protocol number
<i>mac_proto_str</i>	(Optional) MAC protocol name
vlan	(Optional) VLAN number
cos	(Optional) CoS value
<i>vlan</i>	(Optional) VLAN number
<i>cos</i>	(Optional) CoS value
time-range	(Optional) Specify a time range
<i>time_range_name</i>	(Optional) Time range name
capture	(Optional) Enable packet capture on this filter for session
session	(Optional) Session ID <1-48> for this session
<i>session-id</i>	(Optional) Session ID <1-48> for this session
<i>macaction</i>	(Optional) MAC ACL Action
<i>macactionid</i>	(Optional) redirect: Ethernet1/1,port-channel1

Command Mode

- /exec/configure/macacl

permit interface

[no] permit interface <if0>

Syntax Description

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

Syntax Description

no	(Optional) Negate a command or set its defaults
permit	Permit access to vlans (applicable if vlan policy is 'deny')
vlan	Enter the range of vlans accessible the role
<i>vlan-mrange</i>	Enter the vlan range

Command Mode

- /exec/configure/role/vlan

permit vrf

[no] permit vrf <vrf-name>

Syntax Description

Syntax Description

no	(Optional) Negate a command or set its defaults
permit	Permit access to vrf (applicable if vrf policy is 'deny')
vrf	Enter the range of vrf accessible the role
<i>vrf-name</i>	Enter the vrf name

Command Mode

- /exec/configure/role/vrf

permit vsan

[no] permit vsan <vsan-mrange>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
permit	Permit access to vsans (applicable if vsan policy is 'deny')
vsan	Enter the range of vsans accessible the role
<i>vsan-mrange</i>	Enter the vsan range

Command Mode

- /exec/configure/role/vsan

personality

[no] personality

Syntax Description

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

Syntax Description

<i>personality</i>	personality
<i>backup</i>	backup personality
<i>password</i>	(Optional) The password for personality backups
<i>vrf</i>	(Optional) The VRF for personality backups
<i>uri_local</i>	Personality backup local destination
<i>uri_remote</i>	Personality backup remote destination
<i>password</i>	(Optional) Password for SCP username
<i>vrf-known-name</i>	(Optional) VRF name

Command Mode

- /exec

personality restore

```
personality restore <uri> [ user-name <user> ] [ password <password> ] [ hostname <hostname> ] [ vrf
<vrf_name> ]
```

Syntax Description

Syntax Description

<i>personality</i>	Personality
<i>restore</i>	Restore the personality file
<i>uri</i>	Personality file
<i>user-name</i>	(Optional) The username for downloads
<i>user</i>	(Optional) The username
<i>password</i>	(Optional) The password for downloads
<i>password</i>	(Optional) The password
<i>hostname</i>	(Optional) The hostname for downloads
<i>hostname</i>	(Optional) The hostname
<i>vrf</i>	(Optional) The VRF for downloads
<i>vrf_name</i>	(Optional) The VRF name

Command Mode

- /exec

phone-contact

{ phone-contact <s0> | no phone-contact }

Syntax Description

Syntax Description

no Negate a command or set its defaults

phone-contact Contact person's phone number

s0 Phone number in international format(such as +1-800-123-4567)

Command Mode

- /exec/configure/callhome

ping

```
ping [ { { <alpha> | <numeric> [ loopback interface <interface> ] } | { multicast <group> interface <interface>
[ loopback ] } } [ [ source-interface <src-intf> | vrf { <vrf-name> | <vrf-known-name> } ] [ count { <count>
| unlimited } | packet-size <packetsize> | vrf { <vrf-name> | <vrf-known-name> } | interval <interval> | source
{ <alpha> | <numeric1> } | df-bit | timeout <timeout> } + [ [ count { <count> | unlimited } | packet-size
<packetsize> | source-interface <src-intf> | interval <interval> | df-bit | timeout <timeout> } + ] ]
```

Syntax Description

Syntax Description

ping	Test
count	(Optional) Number
unlimited	(Optional) Unlimited
<i>count</i>	(Optional) Number
packet-size	(Optional) Packet
<i>packetsize</i>	(Optional) Size
source-interface	(Optional) Select source interface
<i>src-intf</i>	(Optional) Specify interface
interval	(Optional) Wait
<i>interval</i>	(Optional) Interval
<i>numeric</i>	(Optional) IP address of remote system
<i>numeric1</i>	(Optional) IP
<i>alpha</i>	(Optional) Enter
multicast	(Optional) Multicast
<i>group</i>	(Optional) Multicast
interface	(Optional) Interface
<i>interface</i>	(Optional) Interface
loopback	(Optional) Receive
source	(Optional) Source
df-bit	(Optional) Enable
timeout	(Optional) Specify
<i>timeout</i>	(Optional) Timeout

<code>vrf</code>	(Optional) Display per-VRF information
<code>vrf-name</code>	(Optional) VRF name
<code>vrf-known-name</code>	(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

Syntax Description

ping6	Test
count	(Optional) Number
<i>count</i>	(Optional) Number
unlimited	(Optional) unlimited
packet-size	(Optional) Packet
<i>packetsize</i>	(Optional) Size
source-interface	(Optional) Select source interface
<i>src-intf</i>	(Optional) Specify interface
interval	(Optional) Wait
<i>interval</i>	(Optional) Interval
<i>hostname</i>	Enter
multicast	Multicast
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
source	(Optional) Source
timeout	(Optional) Specify
<i>timeout</i>	(Optional) Timeout

Command Mode

- /exec

ping 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

Syntax Description

{	<count>
ping	Test
nve	network virtualization edge
<i>numeric10</i>	Ipv4 address of remote host / VTEP
unknown	Peer vtep ip is unknown, Applicable only for channel Nv03
<i>dot1qid</i>	Encapsulation dot1q/bd on which the mac is learnt
<i>intfid</i>	Name of the interface for ngoam ping on which dot1q is configured
payload	(Optional) Enter customer payload
port	(Optional) L4 port info
<i>sport</i>	(Optional) Source port
<i>dport</i>	(Optional) Destination port
proto	(Optional) Protocol
<i>proto-id</i>	(Optional) IANA Protocol id
src-intf	(Optional) Interface on which the host with src ip of the payload is connected
<i>src_if</i>	(Optional) Interface
payload-end	(Optional) End of payload info
profile	(Optional) NGOAM profile to use
<i>pid</i>	(Optional) NGOAM profile id
mac	Mac
mac-addr	(Optional) Mac
ip	ip address
<i>dstip</i>	(Optional) Destination ipv4 address
<i>srcip</i>	(Optional) source ipv4 address

<i>ipv6</i>	(Optional) ipv6 address
<i>dmac</i>	Destination mac address
<i>dstmac</i>	(Optional) Destination mac address
<i>smac</i>	(Optional) Source mac address
<i>dot1q</i>	(Optional) Encapsulation dot1q/bd
<i>dot1q-id</i>	(Optional) Encapsulation dot1q/bd on which the mac is learnt
<i>dot1qid1</i>	(Optional) Encapsulation dot1q/bd on which the mac is learnt
<i>vrf</i>	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>source</i>	(Optional) Source
<i>numeric1</i>	(Optional) IP

Command Mode

- /exec

pktmgr cache disable

{ [no] pktmgr cache disable }

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
pktmgr	packet manager
cache	Disable cache
disable	Disable cache

Command Mode

- /exec/configure

pktmgr discard

```
{ [ no ] pktmgr discard [ type <type> ] [ direction <direction> ] [ detail ] }
```

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
pktmgr	packet manager
discard	discard CPI-bound output packets
detail	(Optional) detailed discard info
direction	(Optional) pm debug-filter direction
<i>direction</i>	(Optional) pm direction
type	(Optional) Driver type
<i>type</i>	(Optional) Driver type

Command Mode

- /exec

pktmgr internal event-history size

[no] pktmgr internal event-history { errors | control | log | ha | pkt-errors | pkt-buffer } size { <size_in_text> | <size_in_Kbytes> }

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
internal	Commands for internal use	
pktmgr	Display Packet Manager information	
event-history	various event logs of Pktmgr	
errors	error logs of Pktmgr	
control	control message of Pktmgr	
log	syslog message of Pktmgr	
ha	ha debug message of Pktmgr	
pkt-errors	pkt error message of Pktmgr	
pkt-buffer	pkt buffers message of Pktmgr	
size	Configure the size of the event-hist buffer	
<i>size_in_text</i>	Buffer size	
<i>size_in_Kbytes</i>	Size of the file in kbytes	

Command Mode

- /exec

pktmgr internal mts-queue

{ pktmgr internal mts-queue <size> } | { no pktmgr internal mts-queue }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
pktmgr		Display Packet Manager information
internal		Commands for internal use
mts-queue	mts-queue	
size		Size for pktmgr data sap qlimit

Command Mode

- /exec/configure

pktmgr internal span-drop enable

[no] pktmgr internal span-drop { enable | disable }

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
pktmgr	Display Packet Manager information
internal	Commands for internal use
span-drop	Enable/Disable span to sup packet drops
enable	Enable span to sup packet drops
disable	Dsiable span to sup packet drops

Command Mode

- /exec

pktmgr internal span-drop enable

[no] pktmgr internal span-drop { enable | disable }

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
pktmgr	Display Packet Manager information
internal	Commands for internal use
span-drop	Enable/Disable span to sup packet drops
enable	Enable span to sup packet drops
disable	Dsiable span to sup packet drops

Command Mode

- /exec

platform access-list capture

[no] { platform | hardware } access-list capture

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	platform	Platform configuration commands
	hardware	Hardware Internal Information
	access-list	Access Control List
	capture	Configure ACL capture

Command Mode

- /exec/configure

platform access-list fp_dnl

[no] { platform | hardware } access-list fp_dnl

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	platform	Platform configuration commands
	hardware	Hardware Internal Information
	access-list	Access control list
	fp_dnl	Fabric path - do not learn mac from broadcast

Command Mode

- /exec/configure

platform access-list update

[no] { platform | hardware } access-list update { { atomic [strict] } | { default-result permit } }

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
access-list	Access Control List
update	Configure atomic/non-atomic update and default-result
atomic	Enable atomic update of access-list in hardware
strict	(Optional) Strict check on TCAM size for using mutliple features
default-result	Default access-list result during non-atomic hardware update
permit	Permit all packets during non-atomic update

Command Mode

- /exec/configure

platform fabricpath mac-learning module

[no] { platform | hardware } fabricpath mac-learning module <module> [port-group { 1-4 | 5-8 | 9-12 | 13-16 | 17-20 | 21-24 | 25-28 | 29-32 | 33-36 | 37-40 | 41-44 | 45-48 } +]

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
fabricpath	Fabric Path
mac-learning	MAC Learning
module	Specify a module number
<i>module</i>	Specify a module number
port-group	(Optional) Port Group

Command Mode

- /exec/configure

platform forwarding interface statistics mode mpls

```
[no] { platform | hardware } forwarding interface statistics mode { mpls | default } [ module <module-num> ]
```

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
platform		Platform configuration commands
hardware		Hardware Internal Information
forwarding		Hardware forwarding
interface		Interface
statistics		Statistics
mode		Statistics mode
mpls		Mpls mode
default		Default mode
module	(Optional)	Specify a module number
<i>module-num</i>	(Optional)	Specify a module number

Command Mode

- /exec/configure

platform forwarding layer-2 f1 exclude supervisor

[no] { platform | hardware } forwarding layer-2 f1 exclude supervisor

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
forwarding	Forwarding information
layer-2	L2 only mode
f1	N7K-F132XP-15 module
exclude	Exclude supervisor from getting copies of ARP and multicast packets
supervisor	Supervisor module

Command Mode

- /exec/configure

platform ip verify

```
[no] { platform | hardware } ip verify { address { source { broadcast | multicast } | class-e | destination { zero
} | identical | reserved } | checksum | protocol | fragment | length { minimum | consistent | maximum { max-frag
} | udp | max-tcp } } | tcp { tiny-frag } | version | syslog }
```

Syntax Description

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
ip	IP
verify	Enable IPv4 and some IPv6 packet validation checks in hardware
address	IPv4 Source and destination address validation
source	Check source address
broadcast	Source address is 255.255.255.255
multicast	Source address is 224.x.x.x
destination	Check destination address
zero	Destination address is 0.0.0.0
class-e	Class E IDS check
identical	Same IP SA and DA
reserved	Source address is 127.x.x.x
checksum	Verify IPv4 and IPv6 packet checksum
protocol	Verify IP protocol
fragment	Check IPv4 and IPv6 fragment with non-zero offset and DF bit active
length	Validate IPv4 packet header and payload length
minimum	Minimum IPv4 header length
consistent	Actual frame size is equal to or more than IPv4 length plus ethernet header
maximum	Check max fragment offset and payload length
max-frag	Fragment offset field value
udp	Maximum UDP length has to be less than IPv4 payload length
max-tcp	Maximum TCP length has to be less than IPv4 payload length

tcp	Validate TCP packet header
tiny-frag	Check TCP tiny fragment
version	Must be 4 for an ethertype of IPv4 (0x0800)
syslog	Syslog Messages logging configuration for IDS check drops

Command Mode

- /exec/configure

platform ipv6 verify

```
[no] { platform | hardware } ipv6 verify { length { consistent | maximum { max-frag | udp | max-tcp } } | tcp
{ tiny-frag } | version }
```

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
ipv6	IPv6
verify	Enable IPv6 packet validation checks in hardware
length	Validate IPv6 packet header and payload length
consistent	Actual frame size is equal to or more than IPv6 length plus ethernet header
maximum	Check max fragment offset and payload length
max-frag	Fragment offset field value
udp	Maximum UDP length has to be less than IPv6 payload length
max-tcp	Maximum TCP length has to be less than IPv6 payload length
tcp	Validate TCP packet header
tiny-frag	Check TCP tiny fragment
version	Must be 6 for an ethertype of IPv6 (0x86DD)

Command Mode

- /exec/configure

platform qos

```
[no] { platform | hardware } qos { afd profile <prof-opts> [ module <module> ] }
```

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
qos	Configure qos related configuration
afd	Approximate Fair Dropping
profile	AFD profiles
<i>prof-opts</i>	
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number

Command Mode

- /exec/configure

platform qos

[no] { platform | hardware } qos { min-buffer qos-group <buff-prof-opts> [module <module>] }

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
platform	Platform configuration commands	
hardware	Hardware Internal Information	
qos	Configure qos related configuration	
min-buffer	minimum/reserved buffer selection	
qos-group	Qos Group	
<i>buff-prof-opts</i>		
module	(Optional) Specify a module number	
<i>module</i>	(Optional) Specify a module number	

Command Mode

- /exec/configure

platform qos

```
[no] { platform | hardware } qos { ns-mcq3-alias qos-group <qos-grp-val> [ module <module> ] }
```

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
platform	Platform configuration commands	
hardware	Hardware Internal Information	
qos	Configure QoS related configuration	
ns-mcq3-alias	Select qos-group to which to divert qos-group-3 Multicast traffic	
qos-group	Qos Group	
<i>qos-grp-val</i>	QoS group value	
module	(Optional) Specify a module number	
<i>module</i>	(Optional) Specify a module number	

Command Mode

- /exec/configure

platform qos

```
[no] { platform | hardware } qos { ing-pg-hdrm-reserve percent <percent-val> [ module <module> ] }
```

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
platform		Platform configuration commands
hardware		Hardware Internal Information
qos		Configure qos related configuration
ing-pg-hdrm-reserve		Set Ingress PG Headroom reservation
percent		PG Headroom reservation percent
<i>percent-val</i>		percent of PG Headroom to reserve
module	(Optional)	Specify a module number
<i>module</i>	(Optional)	Specify a module number

Command Mode

- /exec/configure

platform qos

[no] { platform | hardware } qos { burst-detect max-records <val> }

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
platform		Platform configuration commands
hardware		Hardware Internal Information
qos		Configure qos related configuration
burst-detect		Set OOBST burst monitor configs
max-records		Set OOBST burst monitor max records
<i>val</i>		maximum number of records to monitor

Command Mode

- /exec/configure

platform qos

[no] { platform | hardware } qos { oq-drops type <sel> [module <module>] }

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
qos	Configure qos related configuration
oq-drops	per output queue drops
type	type of drops - occ/wred/both
<i>sel</i>	
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number

Command Mode

- /exec/configure

platform qos

```
[no] { platform | hardware } qos { dynamic-packet-prioritization age-period <period> usec [ module <module> ] }
```

Syntax Description

Syntax Description		
	no	(Optional) Negate a command or set its defaults
	platform	Platform configuration commands
	hardware	Hardware Internal Information
	qos	Configure qos related configuration
	dynamic-packet-prioritization	Dynamic Packet Prioritization
	age-period	Aging Period
	<i>period</i>	Aging Period
	usec	micro seconds
	module	(Optional) Specify a module number
	<i>module</i>	(Optional) Specify a module number

Command Mode

- /exec/configure

platform qos

```
[no] { platform | hardware } qos { dynamic-packet-prioritization max-num-pkts <pkts> [ module <module> ] }
```

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
platform		Platform configuration commands
hardware		Hardware Internal Information
qos		Configure qos related configuration
dynamic-packet-prioritization		Dynamic Packet Prioritization
max-num-pkts		Maximum number of packets prioritized
<i>pkts</i>		Number of packets
module	(Optional)	Specify a module number
<i>module</i>	(Optional)	Specify a module number

Command Mode

- /exec/configure

platform qos

```
[no] { platform | hardware } qos { etrap age-period <period> usec [ module <module> ] }
```

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
qos	Configure qos related configuration
etrap	Elephant Trap
age-period	Aging Period
<i>period</i>	Aging Period
usec	micro seconds
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number

Command Mode

- /exec/configure

platform qos

[no] { platform | hardware } qos { etrap byte-count <count> [module <module>] }

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
qos	Configure qos related configuration
etrap	Elephant Trap
byte-count	Number of bytes to become elephant flow
<i>count</i>	Number of bytes
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number

Command Mode

- /exec/configure

platform qos

```
[no] { platform | hardware } qos { etrap bandwidth-threshold <bw> bytes [ module <module> ] }
```

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
platform		Platform configuration commands
hardware		Hardware Internal Information
qos		Configure qos related configuration
etrap		Elephant Trap
bandwidth-threshold		Bandwidth threshold for elephant flow
<i>bw</i>		Number of bytes
bytes		Bytes
module	(Optional)	Specify a module number
<i>module</i>	(Optional)	Specify a module number

Command Mode

- /exec/configure

platform qos

[no] { platform | hardware } qos { buffer input peak <sel> [module <module>] }

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
qos	Configure qos related configuration
buffer	buffer config
input	input buffer
peak	peak counter type
<i>sel</i>	
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number

Command Mode

- /exec/configure

platform qos buffer peak monitor counter0 class

[no] { platform | hardware } qos buffer peak monitor counter0 class <classes>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
qos	Configure qos related configuration
buffer	buffer config
peak	Configure peak control
monitor	monitor peak
counter0	selecting counter 0 for assigning classes
class	class(es) to monitor
<i>classes</i>	qos-group

Command Mode

- /exec/configure

platform qos buffer peak monitor counter1 class

[no] { platform | hardware } qos buffer peak monitor counter1 class { <classes> | none }

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
qos	Configure qos related configuration
buffer	buffer config
peak	Configure peak control
monitor	monitor peak
counter1	selecting counter 1 for assigning classes
class	class(es) to monitor
<i>classes</i>	qos-group
none	none

Command Mode

- /exec/configure

platform qos eoq

```
[no] { platform | hardware } qos eoq { stats-class qos-group { all | <qos-grp-val> } [ module <module> ] }
```

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
platform	Platform configuration commands	
hardware	Hardware Internal Information	
qos	Configure QoS related configuration	
eoq	Extended Output Queue(EOQ) related configuration	
stats-class	Select class for which to report the statistics	
qos-group	Qos Group	
<i>qos-grp-val</i>	QoS group value	
all	all Qos Groups	
module	(Optional) Specify a module number	
<i>module</i>	(Optional) Specify a module number	

Command Mode

- /exec/configure

platform qos include ipg

[no] { platform | hardware } qos include { ipg [module <module>] }

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
qos	Configure qos related configuration
include	include specific configuration param
ipg	Select whether to include IPG in Shaping/Policing
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number

Command Mode

- /exec/configure

platform qos ing

```
[no] { platform | hardware } qos { ing-pg-share [ module <module> ] }
```

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
platform		Platform configuration commands
hardware		Hardware Internal Information
qos		Configure qos related configuration
ing-pg-share		Select Ingress PG Shared Buffer Usage
module	(Optional)	Specify a module number
<i>module</i>	(Optional)	Specify a module number

Command Mode

- /exec/configure

platform qos ing

```
[no] { platform | hardware } qos { ing-pg-no-min [ pgmin <pgmin> ] [ module <module> ] }
```

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
platform		Platform configuration commands
hardware		Hardware Internal Information
qos		Configure qos related configuration
ing-pg-no-min		Enable PG Min
pgmin	(Optional)	Set PG Min Value
<i>pgmin</i>	(Optional)	PG Min Value
module	(Optional)	Specify a module number
<i>module</i>	(Optional)	Specify a module number

Command Mode

- /exec/configure

platform qos mac ipg

{ platform | hardware } qos mac ipg <val> | no { platform | hardware } qos mac ipg [<val>]

Syntax Description

Syntax Description		
no	Negate a command or set its defaults	
platform	Platform configuration commands	
hardware	Hardware Internal Information	
qos	Configure qos related configuration	
mac	MAC	
ipg	Mac IPG Value	
<i>val</i>	new Mac IPG value in byte	

Command Mode

- /exec/configure

platform qos ns

```
[no] { platform | hardware } qos { ns-buffer-profile <buff-prof-opts> [ module <module> ] }
```

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
platform		Platform configuration commands
hardware		Hardware Internal Information
qos		Configure qos related configuration
ns-buffer-profile		NorthStar buffer absorption profiles
<i>buff-prof-opts</i>		
module	(Optional)	Specify a module number
<i>module</i>	(Optional)	Specify a module number

Command Mode

- /exec/configure

platform qos q-noise percent

[no] { platform | hardware } qos q-noise percent <noise>

Syntax Description

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
qos	Configure qos related configuration
q-noise	Configure noise thresholds
percent	Noise threshold in percentage of dynamic/static queue_max
noise	Noise percent

Command Mode

- /exec/configure

platform rate-limiter

```
{ platform | hardware } rate-limiter { layer-3 { <l3-opts> | multicast <mcast-opts> } | layer-2 { <l2-opts> } | <opts> | fl <fl-opts> } { <pps> [ burst <burst> ] | disable } [ module <module> [ port <start> <end> ] ] | no { platform | hardware } rate-limiter { layer-3 { <l3-opts> | multicast <mcast-opts> } | layer-2 { <l2-opts> } | <opts> | fl <fl-opts> } [ disable ] [ <pps> ] [ burst <burst> ] [ module <module> [ port <start> <end> ] ]
```

Syntax Description

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 to supervisor
layer-3	Layer-3 control and Routed packets
<i>l3-opts</i>	
multicast	Multicast data packets
<i>mcast-opts</i>	
layer-2	Layer-2 control and Bridged packets
<i>l2-opts</i>	
<i>opts</i>	
<i>pps</i>	value in packets per sec
fl	Control packets from F1 modules to supervisor
<i>fl-opts</i>	
disable	Disable the rate-limiter
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number
port	(Optional) Port range
<i>start</i>	(Optional) Port start index
<i>end</i>	(Optional) Port end index
burst	(Optional) Modify burst parameter
<i>burst</i>	(Optional) value of burst size

Command Mode

- /exec/configure

platform rate-limiter

```
{ platform | hardware } rate-limiter { layer-3 { <l3-opts> | multicast <mcast-opts> } | layer-2 { <l2-opts> } |
<opts> | fl <fl-opts> } { <pps> [ burst <burst> ] | disable } [ module <module> [ port <start> <end> ] ] | no
{ platform | hardware } rate-limiter { layer-3 { <l3-opts> | multicast <mcast-opts> } | layer-2 { <l2-opts> } |
<opts> | fl <fl-opts> } [ disable ] [ <pps> ] [ burst <burst> ] [ module <module> [ port <start> <end> ] ]
```

Syntax Description

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 to supervisor
layer-3	Layer-3 control and Routed packets
<i>l3-opts</i>	
multicast	Multicast data packets
<i>mcast-opts</i>	
layer-2	Layer-2 control and Bridged packets
<i>l2-opts</i>	
<i>opts</i>	
<i>pps</i>	value in kbits per sec
fl	Control packets from F1 modules to supervisor
<i>fl-opts</i>	
disable	Disable the rate-limiter
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number
port	(Optional) Port range
<i>start</i>	(Optional) Port start index
<i>end</i>	(Optional) Port end index
burst	(Optional) Modify burst parameter
<i>burst</i>	(Optional) value of burst size

Command Mode

- /exec/configure

platform rate-limiter access-list-log

```
{ platform | hardware } rate-limiter access-list-log { <pps> [ burst <burst> ] | disable } [ module <module> [
port <start> <end> ] ] | no { platform | hardware } rate-limiter access-list-log [ disable ] [ <pps> ] [ burst
<burst> ] [ module <module> [ port <start> <end> ] ]
```

Syntax Description

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 to supervisor
access-list-log	Packets copied to supervisor for access-list logging
<i>pps</i>	value in packets per sec
disable	Disable the rate-limiter
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number
port	(Optional) Port range
<i>start</i>	(Optional) Port start index
<i>end</i>	(Optional) Port end index
burst	(Optional) Modify burst parameter
<i>burst</i>	(Optional) value of burst size

Command Mode

- /exec/configure

plugin-test load

```
plugin-test load <uri0> [ [ <uri1> ] [ <uri2> ] ]
```

Syntax Description

Syntax Description	
plugin-test	PLUGIN test
load	PLUGIN test load
<i>uri0</i>	Enter image name
<i>uri1</i>	(Optional) Enter image name
<i>uri2</i>	(Optional) Enter image name

Command Mode

- /exec

plugin-test unload

plugin-test unload <s0> [[<s1>] [<s2>]]

Syntax Description

Syntax Description	
plugin-test	PLUGIN test
unload	plugin test unload
<i>s0</i>	Enter swid
<i>s1</i>	(Optional) Enter swid
<i>s2</i>	(Optional) Enter swid

Command Mode

- /exec

police

```
[no] police [ { [ cir ] { <cir-val> [ <opt_kbps_mbps_gbps_pps_cir> ] | percent <cir-perc> } } { [ [ bc ]
<bc-val> [ <opt_kbytes_mbytes_gbytes_bc> ] ] } } { [ { pir { <pir> [ <opt_kbps_mbps_gbps_pps_pir> ] |
percent1 <pir-perc> } } [ [ be ] <be-val> [ <opt_kbytes_mbytes_gbytes_be> ] ] ] } } { [ { conform {
<opt_drop_transmit_conform> | { set-cos-transmit <set-cos-val> } | { set-dscp-transmit { <set-dscp-val> |
<opt_set_dscp> } } | { set-prec-transmit { <set-prec-val> | <opt_set_prec> } } } } [ { exceed {
<opt_drop_transmit_exceed> | { set dscp1 dscp2 table cir-markdown-map } } } ] [ { violate {
<opt_drop_transmit_violate> | { set1 dscp3 dscp4 table1 pir-markdown-map } } } ] ] ] ] }
```

Syntax Description

Syntax Description

no	Negate a command or set its defaults
police	Police
cir	(Optional) Specify committed information rate
<i>opt_kbps_mbps_gbps_pps_cir</i>	(Optional) Units
percent	(Optional) Specify rate as percentage of interface data-rate
pir	(Optional) Specify peak information rate
<i>opt_kbps_mbps_gbps_pps_pir</i>	(Optional) Units
percent1	(Optional) Specify rate as percentage of interface data-rate
be	(Optional) Specify extended burst
<i>opt_kbytes_mbytes_gbytes_be</i>	(Optional) Units
bc	(Optional) Specify committed burst
<i>opt_kbytes_mbytes_gbytes_bc</i>	(Optional) Units
conform	(Optional) Specify a conform action
<i>opt_drop_transmit_conform</i>	(Optional) Set the action
set-cos-transmit	(Optional) Set conform action cos val
<i>set-cos-val</i>	(Optional) 802.1Q Class of Service value
set-dscp-transmit	(Optional) Set conform action dscp val
<i>set-dscp-val</i>	(Optional) DSCP value
<i>opt_set_dscp</i>	(Optional)
set-prec-transmit	(Optional) Set conform action precedence val
<i>set-prec-val</i>	(Optional) IP Precedence value

<i>opt_set_prec</i>	(Optional)
exceed	(Optional) Specify a exceed action
<i>opt_drop_transmit_exceed</i>	(Optional) Set the action
set	(Optional) Set exceed action to cir-markdown-map
dscp1	(Optional) Exceed from field
dscp2	(Optional) Exceed to field
table	(Optional) To specify table name
cir-markdown-map	(Optional) Well known markdown map
violate	(Optional) Specify a violate action
<i>opt_drop_transmit_violate</i>	(Optional) Set the action
set1	(Optional) Set violate action to pir-markdown-map
dscp3	(Optional) Violate from field
dscp4	(Optional) Violate to field
table1	(Optional) To specify table name
pir-markdown-map	(Optional) Well known markdown map

Command Mode

- /exec/configure/pmap/class

police

```
[no] police [ { [ cir ] { <cir-val> [ <opt_kbps_mbps_gbps_pps_cir> ] | percent <cir-perc> } } { [ [ bc ]
<bc-val> [ <opt_kbytes_mbytes_gbytes_bc> ] ] } } { [ { pir { <pir> [ <opt_kbps_mbps_gbps_pps_pir> ] |
percent1 <pir-perc> } } [ [ be ] <be-val> [ <opt_kbytes_mbytes_gbytes_be> ] ] ] } } { [ { conform {
<opt_drop_transmit_conform> | { set-cos-transmit <set-cos-val> } | { set-dscp-transmit { <set-dscp-val> |
<opt_set_dscp> } } | { set-prec-transmit { <set-prec-val> | <opt_set_prec> } } } } [ { exceed {
<opt_drop_transmit_exceed> | { set dscp1 dscp2 table cir-markdown-map } } } ] [ { violate {
<opt_drop_transmit_violate> | { set1 dscp3 dscp4 table1 pir-markdown-map } } } ] ] ] ] }
```

Syntax Description

Syntax Description

no	Negate a command or set its defaults
police	Police
cir	(Optional) Specify committed information rate
<i>opt_kbps_mbps_gbps_pps_cir</i>	(Optional) Units
percent	(Optional) Specify rate as percentage of interface data-rate
pir	(Optional) Specify peak information rate
<i>opt_kbps_mbps_gbps_pps_pir</i>	(Optional) Units
percent1	(Optional) Specify rate as percentage of interface data-rate
be	(Optional) Specify extended burst
<i>opt_kbytes_mbytes_gbytes_be</i>	(Optional) Units
bc	(Optional) Specify committed burst
<i>opt_kbytes_mbytes_gbytes_bc</i>	(Optional) Units
conform	(Optional) Specify a conform action
<i>opt_drop_transmit_conform</i>	(Optional) Set the action
set-cos-transmit	(Optional) Set conform action cos val
<i>set-cos-val</i>	(Optional) 802.1Q Class of Service value
set-dscp-transmit	(Optional) Set conform action dscp val
<i>set-dscp-val</i>	(Optional) DSCP value
<i>opt_set_dscp</i>	(Optional)
set-prec-transmit	(Optional) Set conform action precedence val
<i>set-prec-val</i>	(Optional) IP Precedence value

<i>opt_set_prec</i>	(Optional)
exceed	(Optional) Specify a exceed action
<i>opt_drop_transmit_exceed</i>	(Optional) Set the action
set	(Optional) Set exceed action to cir-markdown-map
dscp1	(Optional) Exceed from field
dscp2	(Optional) Exceed to field
table	(Optional) To specify table name
cir-markdown-map	(Optional) Well known markdown map
violate	(Optional) Specify a violate action
<i>opt_drop_transmit_violate</i>	(Optional) Set the action
set1	(Optional) Set violate action to pir-markdown-map
dscp3	(Optional) Violate from field
dscp4	(Optional) Violate to field
table1	(Optional) To specify table name
pir-markdown-map	(Optional) Well known markdown map

Command Mode

- /exec/configure/pmap/class

police

```
[no] police { { [ cir ] { <cir-val> [ bps | kbps | mbps | gbps | pps ] | percent <cir-perc> } [ [ bc ] {
<committed-burst> [ bytes | kbytes | mbytes | ms | us | packets ] } ] [ pir { <pir-val> [ bps2 | kbps2 | mbps2 |
gbps2 | pps2 ] | percent <pir-perc> } [ [ be ] { <extended-burst> [ bytes2 | kbytes2 | mbytes2 | ms2 | us2 |
packets2 ] } ] } ] [ conform { transmit | set-prec-transmit { <prec-val> | <prec-enum> } | set-dscp-transmit {
<dscp-val> | <dscp-enum> } | set-cos-transmit <cos-val> | set-discard-class-transmit <disc-class-val> |
set-qos-transmit <qos-grp-val> | set-mpls-exp-imposition-transmit <exp-value-imp> |
set-mpls-exp-topmost-transmit <exp-value-top> } [ exceed { transmit1 | drop1 | set <exc-frm-field>
<exc-to-field> table cir-markdown-map | set-prec-transmit1 { <prec-val1> | <prec-enum1> } | set-dscp-transmit1
{ <dscp-val1> | <dscp-enum1> } | set-cos-transmit1 <cos-val1> | set-discard-class-transmit1 <disc-class-val1>
| set-qos-transmit1 <qos-grp-val1> | set-mpls-exp-imposition-transmit1 <exp-value-imp1> |
set-mpls-exp-topmost-transmit1 <exp-value-top1> } ] [ violate { drop2 | set <vio-frm-field> <vio-to-field>
table2 pir-markdown-map | set-prec-transmit2 { <prec-val2> | <prec-enum2> } | set-dscp-transmit2 {
<dscp-val2> | <dscp-enum2> } | set-cos-transmit2 <cos-val2> | set-discard-class-transmit2 <disc-class-val2>
| set-qos-transmit2 <qos-grp-val2> | set-mpls-exp-imposition-transmit2 <exp-value-imp2> |
set-mpls-exp-topmost-transmit2 <exp-value-top2> } ] } ] | aggregate <policer-name> }
```

Syntax Description

Syntax Description

no	(Optional) Negate a command or set its defaults
police	police
cir	(Optional) Specify committed information rate
bc	(Optional) Specify committed burst
percent	Specify rate as percentage of interface data-rate
<i>cir-perc</i>	Percentage
<i>pir-perc</i>	(Optional) Percentage
pir	(Optional) Specify peak information rate
be	(Optional) Specify extended burst (for 1R3C meter)
bps	(Optional) Bits per second
kbps	(Optional) Kilo bits per second
mbps	(Optional) Mega bits per second
gbps	(Optional) Giga bits per second
pps	(Optional) Packets per second
bps2	(Optional) Bits per second
kbps2	(Optional) Kilo Bits per second
mbps2	(Optional) Mega Bits per second

gbps2	(Optional) Giga Bits per second
pps2	(Optional) Packets per second
bytes	(Optional) Bytes
kbytes	(Optional) Kilo bytes
mbytes	(Optional) Mega bytes
us	(Optional) Micro second(s)
ms	(Optional) Milli second(s)
packets	(Optional) Packets
bytes2	(Optional) Bytes
kbytes2	(Optional) Kilo Bytes
mbytes2	(Optional) Mega Bytes
ms2	(Optional) Milli seconds
us2	(Optional) Micro seconds
packets2	(Optional) Packets
conform	(Optional) Specify a conform action
exceed	(Optional) Specify a exceed action
violate	(Optional) Specify a violate action
transmit	(Optional) Transmit packet
transmit1	(Optional) Transmit packet
drop1	(Optional) Drop packet
drop2	(Optional) Drop packet
set-prec-transmit	(Optional) Set precedence and send it
set-prec-transmit1	(Optional) Set precedence and send it
set-prec-transmit2	(Optional) Set precedence and send it
<i>prec-val</i>	(Optional) Precedence value
<i>prec-val1</i>	(Optional) Precedence value
<i>prec-val2</i>	(Optional) Precedence value
<i>prec-enum</i>	(Optional)
<i>prec-enum1</i>	(Optional)

<i>prec-enum2</i>	(Optional)
set-dscp-transmit	(Optional) Set dscp and send it
set-dscp-transmit1	(Optional) Set dscp and send it
set-dscp-transmit2	(Optional) Set dscp and send it
<i>dscp-val</i>	(Optional) DSCP value
<i>dscp-val1</i>	(Optional) DSCP value
<i>dscp-val2</i>	(Optional) DSCP value
<i>dscp-enum</i>	(Optional)
<i>dscp-enum1</i>	(Optional)
<i>dscp-enum2</i>	(Optional)
set-cos-transmit	(Optional) Set cos and send it
set-cos-transmit1	(Optional) Set cos and send it
set-cos-transmit2	(Optional) Set cos and send it
<i>cos-val</i>	(Optional) new cos value
<i>cos-val1</i>	(Optional) new cos value
<i>cos-val2</i>	(Optional) new cos value
set-discard-class-transmit	(Optional) Set discard class and send it
set-discard-class-transmit1	(Optional) Set discard class and send it
set-discard-class-transmit2	(Optional) Set discard class and send it
<i>disc-class-val</i>	(Optional) new discard-class value
<i>disc-class-val1</i>	(Optional) new discard-class value
<i>disc-class-val2</i>	(Optional) new discard-class value
set-qos-transmit	(Optional) Set qos-group and send it
set-qos-transmit1	(Optional) Set qos-group and send it
set-qos-transmit2	(Optional) Set qos-group and send it
<i>qos-grp-val</i>	(Optional) QoS group value
<i>qos-grp-val1</i>	(Optional) QoS group value
<i>qos-grp-val2</i>	(Optional) QoS group value
set-mpls-exp-imposition-transmit	(Optional) set-mpls-exp-imposition-transmit

set-mpls-exp-imposition-transmit1	(Optional) set-mpls-exp-imposition-transmit
set-mpls-exp-imposition-transmit2	(Optional) set-mpls-exp-imposition-transmit
<i>exp-value-imp</i>	(Optional) MPLS imposition value
<i>exp-value-imp1</i>	(Optional) MPLS imposition value
<i>exp-value-imp2</i>	(Optional) MPLS imposition value
set-mpls-exp-topmost-transmit	(Optional) Set MPLS topmost label
set-mpls-exp-topmost-transmit1	(Optional) Set MPLS topmost label
set-mpls-exp-topmost-transmit2	(Optional) Set MPLS topmost label
<i>exp-value-top</i>	(Optional) MPLS topmost value
<i>exp-value-top1</i>	(Optional) MPLS topmost value
<i>exp-value-top2</i>	(Optional) MPLS topmost value
set	(Optional) Set a particular value using table or markdown map
<i>exc-frm-field</i>	(Optional)
<i>exc-to-field</i>	(Optional)
<i>vio-frm-field</i>	(Optional)
<i>vio-to-field</i>	(Optional)
table	(Optional) Set using the table-map
table2	(Optional) Set using the table-map
cir-markdown-map	(Optional) Markdown map table name for exceed action
pir-markdown-map	(Optional) Markdown map table name for violate action
aggregate	Choose aggregate policer for current class
<i>policer-name</i>	Enter aggregate-policer name

Command Mode

- /exec/configure/policy-map/class

police

```
[no] police { { [ cir ] { <cir-val> [ bps | kbps | mbps | gbps ] | percent <cir-perc> } [ [ bc ] { <committed-burst>
[ bytes | kbytes | mbytes | ms | us ] } ] [ pir { <pir-val> [ bps2 | kbps2 | mbps2 | gbps2 | pps2 ] | percent <pir-perc>
} [ [ be ] { <extended-burst> [ bytes2 | kbytes2 | mbytes2 | ms2 | us2 | packets2 ] } ] ] [ conform { transmit |
set-prec-transmit { <prec-val> | <prec-enum> } | set-dscp-transmit { <dscp-val> | <dscp-enum> } |
set-cos-transmit <cos-val> | set-discard-class-transmit <disc-class-val> | set-qos-transmit <qos-grp-val> |
set-mpls-exp-imposition-transmit <exp-value-imp> | set-mpls-exp-topmost-transmit <exp-value-top> } [
exceed { drop1 | set <exc-frm-field> <exc-to-field> table cir-markdown-map | set-prec-transmit1 { <prec-val1>
| <prec-enum1> } | set-dscp-transmit1 { <dscp-val1> | <dscp-enum1> } | set-cos-transmit1 <cos-val1> |
set-discard-class-transmit1 <disc-class-val1> | set-qos-transmit1 <qos-grp-val1> |
set-mpls-exp-imposition-transmit1 <exp-value-imp1> | set-mpls-exp-topmost-transmit1 <exp-value-top1> }
] [ violate { drop2 | set <vio-frm-field> <vio-to-field> table2 pir-markdown-map | set-prec-transmit2 {
<prec-val2> | <prec-enum2> } | set-dscp-transmit2 { <dscp-val2> | <dscp-enum2> } | set-cos-transmit2
<cos-val2> | set-discard-class-transmit2 <disc-class-val2> | set-qos-transmit2 <qos-grp-val2> |
set-mpls-exp-imposition-transmit2 <exp-value-imp2> | set-mpls-exp-topmost-transmit2 <exp-value-top2> }
] ] } | aggregate <policer-name> }
```

Syntax Description

Syntax Description

no	(Optional) Negate a command or set its defaults
police	police
cir	(Optional) Specify committed information rate
bc	(Optional) Specify committed burst
percent	Specify rate as percentage of interface data-rate
<i>cir-perc</i>	Percentage
<i>pir-perc</i>	(Optional) Percentage
pir	(Optional) Specify peak information rate
be	(Optional) Specify extended burst (for 1R3C meter)
bps	(Optional) Bits per second
kbps	(Optional) Kilo bits per second
mbps	(Optional) Mega bits per second
gbps	(Optional) Giga bits per second
bps2	(Optional) Bits per second
kbps2	(Optional) Kilo Bits per second
mbps2	(Optional) Mega Bits per second
gbps2	(Optional) Giga Bits per second

pps2	(Optional) Packets per second
bytes	(Optional) Bytes
kbytes	(Optional) Kilo bytes
mbytes	(Optional) Mega bytes
us	(Optional) Micro second(s)
ms	(Optional) Milli second(s)
bytes2	(Optional) Bytes
kbytes2	(Optional) Kilo Bytes
mbytes2	(Optional) Mega Bytes
ms2	(Optional) Milli seconds
us2	(Optional) Micro seconds
packets2	(Optional) Packets
conform	(Optional) Specify a conform action
exceed	(Optional) Specify a exceed action
violate	(Optional) Specify a violate action
transmit	(Optional) Transmit packet
drop1	(Optional) Drop packet
drop2	(Optional) Drop packet
set-prec-transmit	(Optional) Set precedence and send it
set-prec-transmit1	(Optional) Set precedence and send it
set-prec-transmit2	(Optional) Set precedence and send it
<i>prec-val</i>	(Optional) Precedence value
<i>prec-val1</i>	(Optional) Precedence value
<i>prec-val2</i>	(Optional) Precedence value
<i>prec-enum</i>	(Optional)
<i>prec-enum1</i>	(Optional)
<i>prec-enum2</i>	(Optional)
set-dscp-transmit	(Optional) Set dscp and send it
set-dscp-transmit1	(Optional) Set dscp and send it

<i>set-dscp-transmit2</i>	(Optional) Set dscp and send it
<i>dscp-val</i>	(Optional) DSCP value
<i>dscp-val1</i>	(Optional) DSCP value
<i>dscp-val2</i>	(Optional) DSCP value
<i>dscp-enum</i>	(Optional)
<i>dscp-enum1</i>	(Optional)
<i>dscp-enum2</i>	(Optional)
<i>set-cos-transmit</i>	(Optional) Set cos and send it
<i>set-cos-transmit1</i>	(Optional) Set cos and send it
<i>set-cos-transmit2</i>	(Optional) Set cos and send it
<i>cos-val</i>	(Optional) new cos value
<i>cos-val1</i>	(Optional) new cos value
<i>cos-val2</i>	(Optional) new cos value
<i>set-discard-class-transmit</i>	(Optional) Set discard class and send it
<i>set-discard-class-transmit1</i>	(Optional) Set discard class and send it
<i>set-discard-class-transmit2</i>	(Optional) Set discard class and send it
<i>disc-class-val</i>	(Optional) new discard-class value
<i>disc-class-val1</i>	(Optional) new discard-class value
<i>disc-class-val2</i>	(Optional) new discard-class value
<i>set-qos-transmit</i>	(Optional) Set qos-group and send it
<i>set-qos-transmit1</i>	(Optional) Set qos-group and send it
<i>set-qos-transmit2</i>	(Optional) Set qos-group and send it
<i>qos-grp-val</i>	(Optional) QoS group value
<i>qos-grp-val1</i>	(Optional) QoS group value
<i>qos-grp-val2</i>	(Optional) QoS group value
<i>set-mpls-exp-imposition-transmit</i>	(Optional) set-mpls-exp-imposition-transmit
<i>set-mpls-exp-imposition-transmit1</i>	(Optional) set-mpls-exp-imposition-transmit
<i>set-mpls-exp-imposition-transmit2</i>	(Optional) set-mpls-exp-imposition-transmit
<i>exp-value-imp</i>	(Optional) MPLS imposition value

<i>exp-value-imp1</i>	(Optional) MPLS imposition value
<i>exp-value-imp2</i>	(Optional) MPLS imposition value
set-mpls-exp-topmost-transmit	(Optional) Set MPLS topmost label
set-mpls-exp-topmost-transmit1	(Optional) Set MPLS topmost label
set-mpls-exp-topmost-transmit2	(Optional) Set MPLS topmost label
<i>exp-value-top</i>	(Optional) MPLS topmost value
<i>exp-value-top1</i>	(Optional) MPLS topmost value
<i>exp-value-top2</i>	(Optional) MPLS topmost value
set	(Optional) Set a particular value using table or markdown map
<i>exc-frm-field</i>	(Optional)
<i>exc-to-field</i>	(Optional)
<i>vio-frm-field</i>	(Optional)
<i>vio-to-field</i>	(Optional)
table	(Optional) Set using the table-map
table2	(Optional) Set using the table-map
cir-markdown-map	(Optional) Markdown map table name for exceed action
pir-markdown-map	(Optional) Markdown map table name for violate action
aggregate	Choose aggregate policer for current class
<i>policer-name</i>	Enter aggregate-policer name

Command Mode

- /exec/configure/policy-map/class

police police pps

```

police { [ cir ] { <cir-val> [ <opt_kbps_mbps_gbps_pps_cir> ] | percent <cir-perc> } } { [ [ bc ] <bc-val>
[ <opt_kbytes_mbytes_gbytes_bc> ] ] } { [ { pir { <pir> [ <opt_kbps_mbps_gbps_pps_pir> ] | percent1
<pir-perc> } } [ [ be ] <be-val> [ <opt_kbytes_mbytes_gbytes_be> ] ] ] } { [ { conform {
<opt_drop_transmit_conform> | { set-cos-transmit <set-cos-val> } | { set-dscp-transmit { <set-dscp-val> |
<opt_set_dscp> } } | { set-prec-transmit { <set-prec-val> | <opt_set_prec> } } } ] [ { exceed {
<opt_drop_transmit_exceed> | { set dscp1 dscp2 table cir-markdown-map } } } ] [ { violate {
<opt_drop_transmit_violate> | { set1 dscp3 dscp4 table1 pir-markdown-map } } } ] ] } | police { pps {
<pps-val> } }

```

Syntax Description

Syntax Description

police	Police
cir	(Optional) Specify committed information rate
<i>opt_kbps_mbps_gbps_pps_cir</i>	(Optional) Units
percent	Specify rate as percentage of interface data-rate
pir	(Optional) Specify peak information rate
<i>opt_kbps_mbps_gbps_pps_pir</i>	(Optional) Units
percent1	(Optional) Specify rate as percentage of interface data-rate
be	(Optional) Specify extended burst
<i>opt_kbytes_mbytes_gbytes_be</i>	(Optional) Units
bc	(Optional) Specify committed burst
<i>opt_kbytes_mbytes_gbytes_bc</i>	(Optional) Units
conform	(Optional) Specify a conform action
<i>opt_drop_transmit_conform</i>	(Optional) Set the action
set-cos-transmit	(Optional) Set conform action cos val
<i>set-cos-val</i>	(Optional) 802.1Q Class of Service value
set-dscp-transmit	(Optional) Set conform action dscp val
<i>set-dscp-val</i>	(Optional) DSCP value
<i>opt_set_dscp</i>	(Optional)
set-prec-transmit	(Optional) Set conform action precedence val
<i>set-prec-val</i>	(Optional) IP Precedence value
<i>opt_set_prec</i>	(Optional)

exceed	(Optional) Specify a exceed action
<i>opt_drop_transmit_exceed</i>	(Optional) Set the action
set	(Optional) Set exceed action to cir-markdown-map
dscp1	(Optional) Exceed from field
dscp2	(Optional) Exceed to field
table	(Optional) To specify table name
cir-markdown-map	(Optional) Well known markdown map
violate	(Optional) Specify a violate action
<i>opt_drop_transmit_violate</i>	(Optional) Set the action
set1	(Optional) Set violate action to pir-markdown-map
dscp3	(Optional) Violate from field
dscp4	(Optional) Violate to field
table1	(Optional) To specify table name
pir-markdown-map	(Optional) Well known markdown map
pps	Specify PPS rate limit

Command Mode

- /exec/configure/pmap/class

police police pps

```

police { [ cir ] { <cir-val> [ <opt_kbps_mbps_gbps_pps_cir> ] | percent <cir-perc> } } { [ [ bc ] <bc-val>
[ <opt_kbytes_mbytes_gbytes_bc> ] ] } { [ { pir { <pir> [ <opt_kbps_mbps_gbps_pps_pir> ] | percent1
<pir-perc> } } [ [ be ] <be-val> [ <opt_kbytes_mbytes_gbytes_be> ] ] ] } { [ { conform {
<opt_drop_transmit_conform> | { set-cos-transmit <set-cos-val> } | { set-dscp-transmit { <set-dscp-val> |
<opt_set_dscp> } } | { set-prec-transmit { <set-prec-val> | <opt_set_prec> } } } ] [ { exceed {
<opt_drop_transmit_exceed> | { set dscp1 dscp2 table cir-markdown-map } } } ] [ { violate {
<opt_drop_transmit_violate> | { set1 dscp3 dscp4 table1 pir-markdown-map } } } ] ] } | police { pps {
<pps-val> } }

```

Syntax Description

Syntax Description

police	Police
cir	(Optional) Specify committed information rate
<i>opt_kbps_mbps_gbps_pps_cir</i>	(Optional) Units
percent	Specify rate as percentage of interface data-rate
pir	(Optional) Specify peak information rate
<i>opt_kbps_mbps_gbps_pps_pir</i>	(Optional) Units
percent1	(Optional) Specify rate as percentage of interface data-rate
be	(Optional) Specify extended burst
<i>opt_kbytes_mbytes_gbytes_be</i>	(Optional) Units
bc	(Optional) Specify committed burst
<i>opt_kbytes_mbytes_gbytes_bc</i>	(Optional) Units
conform	(Optional) Specify a conform action
<i>opt_drop_transmit_conform</i>	(Optional) Set the action
set-cos-transmit	(Optional) Set conform action cos val
<i>set-cos-val</i>	(Optional) 802.1Q Class of Service value
set-dscp-transmit	(Optional) Set conform action dscp val
<i>set-dscp-val</i>	(Optional) DSCP value
<i>opt_set_dscp</i>	(Optional)
set-prec-transmit	(Optional) Set conform action precedence val
<i>set-prec-val</i>	(Optional) IP Precedence value
<i>opt_set_prec</i>	(Optional)

exceed	(Optional) Specify a exceed action
<i>opt_drop_transmit_exceed</i>	(Optional) Set the action
set	(Optional) Set exceed action to cir-markdown-map
dscp1	(Optional) Exceed from field
dscp2	(Optional) Exceed to field
table	(Optional) To specify table name
cir-markdown-map	(Optional) Well known markdown map
violate	(Optional) Specify a violate action
<i>opt_drop_transmit_violate</i>	(Optional) Set the action
set1	(Optional) Set violate action to pir-markdown-map
dscp3	(Optional) Violate from field
dscp4	(Optional) Violate to field
table1	(Optional) To specify table name
pir-markdown-map	(Optional) Well known markdown map
pps	Specify PPS rate limit

Command Mode

- /exec/configure/pmap/class

policy-map

[no] policy-map [type qos] [match-first] <pmap-name-qos>

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
policy-map		Configure a policy map
type	(Optional)	Specify the type of this policy-map
qos	(Optional)	Qos policy
match-first	(Optional)	Take the action for the first class that matches
<i>pmap-name-qos</i>		Policy-map name (alphanumeric)

Command Mode

- /exec/configure

policy-map type control-plane

[no] policy-map type control-plane <pmap-name>

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	policy-map	Configure a policy map
	type	Specify the type of this policy-map
	control-plane	Control-Plane
	<i>pmap-name</i>	Policy-map name (alphanumeric)

Command Mode

- /exec/configure

policy-map type network-qos

[no] policy-map type network-qos <pmap-name-nq>

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
policy-map	Configure a policy map	
type	Specify the type of this policy-map	
network-qos	Network QoS policy	
<i>pmap-name-nq</i>	Policy-map name	

Command Mode

- /exec/configure

policy-map type psp

```
[no] policy-map type psp { <pmap-name-plc> | { handle <ppf_id> } } [ table <table_type> ] [ client <clienttype> <clientID> ]
```

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
policy-map		Configure a policy map
type		Specify the type of this policy-map
psp		PSP policy
<i>pmap-name-plc</i>		Policy-map name (alphanumeric)
handle		Handle
<i>ppf_id</i>		PPF ID
table	(Optional)	table
<i>table_type</i>	(Optional)	Table Type
client	(Optional)	set client type
<i>clienttype</i>	(Optional)	cli/onep
<i>clientID</i>	(Optional)	client appID

Command Mode

- /exec/configure

policy-map type queuing

[no] policy-map type queuing [match-first] <pmap-name-que>

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
policy-map		Configure a policy map
type		Specify the type of this policy-map
queuing		Queuing policy
match-first	(Optional)	Take the action for the first class that matches
<i>pmap-name-que</i>		Policy-map name (alphanumeric)

Command Mode

- /exec/configure

policy

policy { { dynamic identity <device-id> } | { static sgt <sgt> [trusted] } } | no policy static | no policy dynamic

Syntax Description

Syntax Description

policy	Enable and define policy to be applied
dynamic	apply to authorization server for policy
identity	specify identity of peer for authorization request
<i>device-id</i>	peer's device-id
static	configure static policy
sgt	SGT tag for pkts from this device
<i>sgt</i>	sgt value
trusted	(Optional) specify trust state of the link

Command Mode

- /exec/configure/cts-manual

pop

pop [<name>]

Syntax Description

Syntax Description

pop pop mode from stack or restore from name

name (Optional) name

Command Mode

- /global

port-channel limit

port-channel limit | no port-channel limit

Syntax Description

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

Syntax Description

no	Negate a command or set its defaults
port-channel	Configure port channel parameters
load-balance	Configure port-channel load balance
<i>bndl_hash</i>	bundle hash
<i>bndl_sel</i>	bundle select
rotate	(Optional) offset the hash-input
<i>po-lb-rotate-range</i>	(Optional) offset the hash-input
concatenation	(Optional) enable/disable concatenation
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number
fex	(Optional) FEX devices
all	(Optional) Permit all FEX to configure port-channel LB
symmetric	(Optional) symmetric load balancing

Command Mode

- /exec/configure

port-channel load-balance1 ethernet

port-channel load-balance1 ethernet <algorithm> [symmetric] | no port-channel load-balance1 ethernet [<algorithm> [symmetric]]

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
port-channel		Configure port channel parameters
load-balance1		Configure port-channel load balance
ethernet		Ethernet port-channel
<i>algorithm</i>		Configure port-channel load balance
symmetric		(Optional) symmetric load balancing

Command Mode

- /exec/configure

port-channel load-balance2 resilient

port-channel load-balance2 resilient | no port-channel load-balance2 resilient

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
port-channel		Configure port channel parameters
load-balance2		Configure port-channel load balance
resilient		Configure port-channel load balance resilient mode

Command Mode

- /exec/configure

port-channel load-balance ethernet

port-channel load-balance ethernet <algorithm> [module <module>] | no port-channel load-balance ethernet [<algorithm> [module <module>]]

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
port-channel	Configure port channel parameters
load-balance	Configure port-channel load balance
ethernet	Ethernet port-channel
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number
<i>algorithm</i>	Configure port-channel load balance

Command Mode

- /exec/configure

port-channel load-balance hash-modulo-f2

[no] port-channel load-balance hash-modulo-f2

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
port-channel	Configure port channel parameters
load-balance	Configure port-channel load balance
hash-modulo-f2	Enable/disable modulo hash for N7K-F248XP cards

Command Mode

- /exec/configure

port-channel load-balance hash enable

[no] port-channel load-balance hash enable

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	port-channel	Configure port channel parameters
	load-balance	Configure port-channel load balance
	hash	hash enhancement
	enable	enable

Command Mode

- /exec/configure

port-channel load-balance internal

port-channel load-balance internal <algorithm> | no port-channel load-balance internal <algorithm>

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
port-channel		Configure port channel parameters
load-balance		Configure port-channel load balance
internal		Configure port-channel load balance internal commands
<i>algorithm</i>		Configure port-channel load balance internal mode

Command Mode

- /exec/configure

port-channel load-balance internal rtag7

port-channel load-balance internal rtag7 <algorithm> | no port-channel load-balance internal rtag7 <algorithm>

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
port-channel	Configure port channel parameters
load-balance	Configure port-channel load balance
internal	Configure port-channel load balance internal commands
rtag7	Configure port-channel load balance internal commands
<i>algorithm</i>	Configure port-channel load balance internal mode

Command Mode

- /exec/configure

port-profile

```
[no] port-profile [ type <typeval> ] { <profilename> | <s0> }
```

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
port-profile	Configure a port-profile
<i>profilename</i>	Enter the name of the profile
<i>s0</i>	Enter the name of the profile
type	(Optional) configure type of the profile
<i>typeval</i>	(Optional)

Command Mode

- /exec/configure

port-profile dump

[no] port-profile dump

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
port-profile	Dump port-profile
dump	Dump all additional information from database

Command Mode

- /exec

port-profile no-redirect

[no] port-profile no-redirect

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
port-profile	Show port-profile information
no-redirect	Disable port-profile redirection

Command Mode

- /exec

port-security stop learning

[no] port-security stop learning

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	port-security	Port security related command
	stop	stop
	learning	learning

Command Mode

- /exec

port

```
{ port <tpportnum> } | { no port [ <tpportnum-ignore> ] }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
port		Port number
<i>tpportnum</i>		Port number, default: 15002
<i>tpportnum-ignore</i>	(Optional)	Port number, default: 15002

Command Mode

- /exe/configure/onep/tls

port control

[no] port control <port-control-name>

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
port		ITD port
control		control
<i>port-control-name</i>		Port control name

Command Mode

- /exec/configure/itd-inout

port control

[no] port control <port-control-name>

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
port		ITD port
control		control
<i>port-control-name</i>		Port control name

Command Mode

- /exec/configure/itd-inout

port destination

{ port { destination | source } <port> } | { no port { destination | source } }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
port		specify flow port address
source		specify flow source port address
destination		specify flow destination port address
<i>port</i>		port number

Command Mode

- /exec/configure/configngoamprofileflow

power efficient-ethernet auto

[no] power efficient-ethernet auto

Syntax Description

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

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 redundancy-mode combined

[no] power redundancy-mode combined

Syntax Description

Syntax Description		
	no	(Optional) Negate a command or set its defaults
	power	Configure power supply
	redundancy-mode	Configure power supply redundancy mode
	combined	Configure power supply redundancy mode as combined

Command Mode

- /exec/configure

power redundancy-mode combined force

[no] power redundancy-mode combined force

Syntax Description

Syntax Description		
	no	(Optional) Negate a command or set its defaults
	power	Configure power supply
	redundancy-mode	Configure power supply redundancy mode
	combined	Configure power supply redundancy mode as combined
	force	Force combined mode without prompting

Command Mode

- /exec/configure

power redundancy-mode insrc-redundant

[no] power redundancy-mode insrc-redundant

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
power	Configure power supply
redundancy-mode	Configure power supply redundancy mode
insrc-redundant	Configure power supply redundancy mode as grid/AC input source redundant

Command Mode

- /exec/configure

power redundancy-mode ps-redundant

[no] power redundancy-mode ps-redundant

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
power	Configure power supply	
redundancy-mode	Configure power supply redundancy mode	
ps-redundant	Configure power supply redundancy mode as PS redundant	

Command Mode

- /exec/configure

power reserve

[no] power reserve <percentage>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
power	Configure power supply
reserve	Override default power reservation
<i>percentage</i>	please enter a percentage

Command Mode

- /exec/configure

poweroff

```
[no] poweroff { module <module> | <s0> <santa-cruz-range> }
```

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
poweroff	Power off a module in the switch	
module	enter a module number	
<i>module</i>	please enter the module number	
<i>s0</i>	Power off a specific xbar	
<i>santa-cruz-range</i>	please enter the xbar number	

Command Mode

- /exec/configure

pps

pps <pps> <burst> | no pps [<pps>] [<burst>]

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	pps	OSPF packets per second
	<i>pps</i>	Packets per second value
	<i>burst</i>	Burst value

Command Mode

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

pps

pps <pps> <burst> | no pps [<pps>] [<burst>]

Syntax Description

Syntax Description	<i>no</i>	Negate a command or set its defaults
	<i>pps</i>	OSPFv3 packets per second
	<i>pps</i>	Packets per second value
	<i>burst</i>	Burst value

Command Mode

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

precision milliseconds

```
{ { no | default } precision | precision { milliseconds | microseconds } }
```

Syntax Description

Syntax Description	
no	
<i>precision</i>	milliseconds
default	Set a command to its defaults
precision	Set precision of measurement
microseconds	Precision microseconds
milliseconds	Precision milliseconds

Command Mode

- /exec/configure/ip-sla/jitter

preempt

[no] preempt [delay { minimum <min-delay> }]

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
preempt	Overthrow lower priority designated routers
delay	(Optional) Wait before preempting
minimum	(Optional) Delay atleast this long
<i>min-delay</i>	(Optional) Number of seconds for minimum delay

Command Mode

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

preempt

[no] preempt | preempt

Syntax Description

Syntax Description

no Negate a command or set its defaults

preempt Enable preemption of lower priority Master

Command Mode

- /exec/configure/if-eth-any/vrrpv3

preempt

[no] preempt

Syntax Description

Syntax Description

no (Optional) Negate a command or set its defaults

preempt Enable preemption of lower priority master

Command Mode

- /exec/configure/if-eth-any/vrrp

preempt delay minimum

[no] preempt delay | preempt delay minimum <secs>

Syntax Description

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 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> reload <rel-delay> | preempt delay reload <rel-delay> minimum <min-delay> | preempt delay minimum <min-delay> reload <rel-delay> | preempt delay reload <rel-delay> minimum <min-delay> | preempt delay minimum <min-delay> | preempt delay reload <rel-delay> | preempt delay sync <sync-delay> | preempt | no preempt delay [{ minimum [<min-delay>] [[reload [<rel-delay>]] [sync [<sync-delay>]]] [sync [<sync-delay>]] [reload [<rel-delay>]]] | reload [<rel-delay>] [[minimum [<min-delay>]] [sync [<sync-delay>]]] [sync [<sync-delay>]] [minimum [<min-delay>]]] | sync [<sync-delay>] [[reload [<rel-delay>]] [minimum [<min-delay>]]] [[minimum [<min-delay>]] [reload [<rel-delay>]]] }]

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
preempt	Overthrow lower priority Active routers
delay	Wait before preempting
minimum	Delay at least this long
<i>min-delay</i>	Number of seconds for minimum delay
reload	Delay after reload
<i>rel-delay</i>	Number of seconds for reload delay
sync	Wait for IP redundancy clients
<i>sync-delay</i>	Number of seconds for sync delay
<i>minimum reload</i>	

preempt delay minimum reload sync preempt delay reload minimum sync preempt delay sync minimum reload preempt delay reload sync minimum preempt
delay sync reload minimum preempt delay minimum sync reload preempt delay reload sync preempt delay sync reload preempt delay minimum sync preempt
delay sync minimum preempt delay minimum reload preempt delay reload minimum preempt delay minimum preempt delay reload preempt delay sync preempt

Command Mode

- /exec/configure/if-eth-any/hsrp_ipv4 /exec/configure/if-eth-any/hsrp_ipv6

prefix out

[no | default] { prefix-list <prfxlist-name> } { out | in }

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
default	(Optional)	Inherit values from a peer template
prefix-list		Apply prefix-list
<i>prfxlist-name</i>		Name of prefix-list
out		Apply policy to outgoing routes
in		Apply policy to incoming routes

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv4
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-mdt
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv6
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-link-state
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-l2vpn-vpls
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-mvpn
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv6-mvpn
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-l2vpn-evpn
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-label
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv6-label

priority-flow-control auto-restore multiplier

[no] priority-flow-control auto-restore multiplier { <val> }

Syntax Description

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

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 | off } [force]

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
priority-flow-control	Enable/Disable	PFC
mode		PFC Mode
auto		Set Auto Mode
on		Force PFC to On
off		Force PFC to Off
force	(Optional)	Force apply PFC config

Command Mode

- /exec/configure/if-switching /exec/configure/if-routing /exec/configure/if-port-channel /exec/configure/if-port-channel-sub

priority-flow-control override-interface mode off

[no] priority-flow-control override-interface mode off

Syntax Description

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

Syntax Description	
priority-flow-control	Change PFC settings
recover	Recover PFC queue from stuck state
interface	Interface
<i>if_list</i>	List of interfaces
qos-group	(Optional) No-drop class to be recovered
<i>qgrp-num</i>	(Optional) qos-group number of the no-drop class
module	(Optional) Slot/module
<i>module_idx</i>	(Optional) Slot/module number
instance	(Optional) ASIC Instance Number
<i>inst</i>	(Optional) ASIC Instance Number in Decimal

Command Mode

- /exec

priority-flow-control tah-recover interface

```
priority-flow-control tah-recover interface <if_list> [ qos-group <qos> ] [ module <module> ]
```

Syntax Description

Syntax Description

priority-flow-control	Change PFC settings
tah-recover	Recover PFC queue from stuck state
interface	Interface
<i>if_list</i>	List of interfaces
qos-group	(Optional) No-drop class to be recovered
<i>qos</i>	(Optional) qos-group number of the no-drop class
module	(Optional) Slot/module
<i>module</i>	(Optional) Slot/module number

Command Mode

- /exec

priority-flow-control watch-dog-interval on

[no] priority-flow-control watch-dog-interval { on | off }

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
priority-flow-control	Enable/Disable PFC
watch-dog-interval	Watch dog interval
on	PFC watch-dog interval to On
off	PFC watch-dog interval to Off

Command Mode

- /exec/configure/if-switching /exec/configure/if-routing /exec/configure/if-port-channel /exec/configure/if-port-channel-sub

priority-flow-control watch-dog-interval on

[no] priority-flow-control watch-dog-interval { on | off }

Syntax Description

Syntax Description	
no	(Optional) Negate the command
priority-flow-control	Enable/Disable PFC
watch-dog-interval	Watch dog interval
on	Enable PFC watch-dog interval globally
off	Disable PFC watch-dog interval globally

Command Mode

- /exec/configure

priority-flow-control watch-dog internal-interface-multiplier

[no] priority-flow-control watch-dog internal-interface-multiplier { <val> }

Syntax Description

Syntax Description		
no	(Optional)	Negate the command
priority-flow-control	pfc	related commands
watch-dog	watch dog	interval
internal-interface-multiplier	Internal Interface	Multiplier
<i>val</i>	Multiplier value for internal interfaces, 0 to disable the feature on internal interfaces	

Command Mode

- /exec/configure

priority-flow-control watch-dog shutdown-multiplier

[no] priority-flow-control watch-dog shutdown-multiplier { <val> }

Syntax Description

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-flow-control watch-dog timer

[no] priority-flow-control watch-dog { timer <val> | interval <interval-val> }

Syntax Description

Syntax Description		
no	(Optional)	Negate the command
priority-flow-control	pfc	related commands
watch-dog	watch dog	interval
timer	Poll	timer
<i>val</i>	Watch dog	timer value in ms
interval	Poll	interval
<i>interval-val</i>	Watch dog	interval value in ms

Command Mode

- /exec/configure

priority

[no] priority | priority <setup_prio> [<hold_prio>]

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
priority	Specify LSP priority
<i>setup_prio</i>	setup priority
<i>hold_prio</i>	(Optional) hold priority

Command Mode

- /exec/configure/te/lsp-attr

priority2

[no] priority2 [level2 <value>]

Syntax Description

Syntax Description	<i>no</i> (Optional) Negate a command or set its defaults
	<i>priority2</i> Configure traffic class priority
	<i>level2</i> (Optional) Specify level of priority
	<i>value</i> (Optional) Strict-priority level (1=hi 2=med 3=lo)

Command Mode

- /exec/configure/policy-map/type/queuing/class

priority

[no] priority | priority <setup_pri> [<hold_pri>]

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
priority	tunnel priority
<i>setup_pri</i>	setup priority
<i>hold_pri</i>	(Optional) hold priority

Command Mode

- /exec/configure/if-te /exec/configure/tunnel-te/cbts-member

priority

{ priority <pri-value> } | { no priority }

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	priority	Priority level
	<i>pri-value</i>	Priority Value

Command Mode

- /exec/configure/if-eth-any/glbp

priority

priority <priority> [forwarding-threshold lower <lower-value> upper <upper-value>] | no priority [forwarding-threshold]

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
priority		Priority level
<i>priority</i>		Priority value
forwarding-threshold	(Optional)	Set forwarding threshold
lower	(Optional)	Set lower threshold value
<i>lower-value</i>	(Optional)	Lower threshold value
upper	(Optional)	Set upper threshold value
<i>upper-value</i>	(Optional)	Upper threshold value

Command Mode

- /exec/configure/if-eth-any/hsrp_ipv4 /exec/configure/if-eth-any/hsrp_ipv6

priority

priority <value> | no priority

Syntax Description

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

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

[no] priority | priority <val>

Syntax Description

Syntax Description	<i>no</i>	Negate a command or set its defaults
	<i>priority</i>	Priority of this VRRP group
	<i>val</i>	Priority level

Command Mode

- /exec/configure/if-eth-any/vrrpv3

priority

```
{ priority <priority_value> [ forwarding-threshold lower <lower-value> upper <upper-value> ] | no priority
[ forwarding-threshold ] }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
priority		Configure the vr priority
<i>priority_value</i>		Configure the vr priority
forwarding-threshold	(Optional)	Set forwarding threshold
lower	(Optional)	Set lower threshold value
<i>lower-value</i>	(Optional)	Lower threshold value
upper	(Optional)	Set upper threshold value
<i>upper-value</i>	(Optional)	Upper threshold value

Command Mode

- /exec/configure/if-eth-any/vrrp

private-vlan

[no] private-vlan <pvlan-type>

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	private-vlan	Configure a private VLAN
	<i>pvlan-type</i>	PVLAN Type

Command Mode

- /exec/configure/vlan

private-vlan association

```
{ private-vlan association [ { add | remove } ] <secondary_vlans> } | { no private-vlan association [ <secondary_vlans> ] }
```

Syntax Description

Syntax Description

private-vlan	Configure a private VLAN
association	Add association between private VLANs
add	(Optional) Add a VLAN to private VLAN list
remove	(Optional) Remove a VLAN from private VLAN list
no	Negate a command or set its defaults
<i>secondary_vlans</i>	VLAN IDs of the private VLANs to be configured

Command Mode

- /exec/configure/vlan

private-vlan mapping

```
{ private-vlan mapping [ { add | remove } ] <secondary_vlans> } | { no private-vlan mapping [ <secondary_vlans> ] }
```

Syntax Description

Syntax Description		
private-vlan		Configure a private VLAN
mapping		Set the private VLAN interface mapping
add	(Optional)	Add a VLAN to private VLAN list
remove	(Optional)	Remove a VLAN from private VLAN list
no		Negate a command or set its defaults
<i>secondary_vlans</i>		Secondary VLAN IDs of the private VLAN interface mapping

Command Mode

- /exec/configure/if-vlan

private-vlan release resource

```
private-vlan release resource { [ vlan <vlan-id> ] | global }
```

Syntax Description

Syntax Description

private-vlan	Show information about private VLAN
release	release
resource	resource
vlan	(Optional) VLAN status
global	global rid
<i>vlan-id</i>	(Optional) VLAN IDs of the private VLANs to be configured

Command Mode

- /exec

private-vlan synchronize

private-vlan synchronize

Syntax Description

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

Syntax Description	
no	Negate a command or set its defaults
probe-interval	OpenFlow controller probe interval timer (default is 180 seconds)
<i>probeinterval-val</i>	probe interval timer value in secs

Command Mode

- /exec/configure/openflow/switch

probe-interval

probe-interval <probeinterval-val> | no probe-interval

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
probe-interval		OpenFlow controller probe interval timer (default is 180 seconds)
<i>probeinterval-val</i>		probe interval timer value in secs

Command Mode

- /exec/configure/openflow/switch/sub-switch

probe

[no] probe <probe-id-icmp> [frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count>] +

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
probe		ITD probe
<i>probe-id-icmp</i>		Service mode
frequency	(Optional)	Frequency
<i>freq-num</i>	(Optional)	Frequency
timeout	(Optional)	Timeout
<i>timeout</i>	(Optional)	Timeout
retry-down-count	(Optional)	Retry-count when node goes down
<i>count</i>	(Optional)	Count
retry-up-count	(Optional)	Retry-count when node comes back up
<i>up-count</i>	(Optional)	Count

Command Mode

- /exec/configure/itd-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

Syntax Description		
no	(Optional)	Negate a command or set its defaults
probe		ITD probe
<i>probe-id-icmp</i>		Service mode
frequency	(Optional)	Frequency
<i>freq-num</i>	(Optional)	Frequency
timeout	(Optional)	Timeout
<i>timeout</i>	(Optional)	Timeout
retry-down-count	(Optional)	Retry-count when node goes down
<i>count</i>	(Optional)	Count
retry-up-count	(Optional)	Retry-count when node comes back up
<i>up-count</i>	(Optional)	Count
ip	(Optional)	ip address for probe
<i>ip-addr</i>	(Optional)	IP4 prefix in format i.i.i.i

Command Mode

- /exec/configure/itd-dg-node-standby

probe

[no] probe <probe-id-icmp> [frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count>] +

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
probe		ITD probe
<i>probe-id-icmp</i>		Service mode
frequency	(Optional)	Frequency
<i>freq-num</i>	(Optional)	Frequency
timeout	(Optional)	Timeout
<i>timeout</i>	(Optional)	Timeout
retry-down-count	(Optional)	Retry-count when node goes down
<i>count</i>	(Optional)	Count
retry-up-count	(Optional)	Retry-count when node comes back up
<i>up-count</i>	(Optional)	Count

Command Mode

- /exec/configure/itd-device-group

probe

[no] probe <probe-id-icmp> [frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count> | ip <ip-addr>] +

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
probe		ITD probe
<i>probe-id-icmp</i>		Service mode
frequency	(Optional)	Frequency in seconds
<i>freq-num</i>	(Optional)	Frequency in seconds
timeout	(Optional)	Timeout in seconds
<i>timeout</i>	(Optional)	Timeout in seconds
retry-down-count	(Optional)	Retry-count when node goes down
<i>count</i>	(Optional)	Count
retry-up-count	(Optional)	Retry-count when node comes back up
<i>up-count</i>	(Optional)	Count
ip	(Optional)	ip address for probe
<i>ip-addr</i>	(Optional)	IP4 prefix in format i.i.i.i

Command Mode

- /exec/configure/itd-dg-node

probe

[no] probe <probe-id-icmp> [frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count> | ip <ip-addr>] +

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
probe		ITD probe
<i>probe-id-icmp</i>		Service mode
frequency	(Optional)	Frequency in seconds
<i>freq-num</i>	(Optional)	Frequency in seconds
timeout	(Optional)	Timeout in seconds
<i>timeout</i>	(Optional)	Timeout in seconds
retry-down-count	(Optional)	Retry-count when node goes down
<i>count</i>	(Optional)	Count
retry-up-count	(Optional)	Retry-count when node comes back up
<i>up-count</i>	(Optional)	Count
ip	(Optional)	ip address for probe
<i>ip-addr</i>	(Optional)	IP4 prefix in format i.i.i.i

Command Mode

- /exec/configure/itd-dg-node-standby

probe

[no] probe <probe-id-icmp> [frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count>] +

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
probe		ITD probe
<i>probe-id-icmp</i>		Service mode
frequency	(Optional)	Frequency in seconds
<i>freq-num</i>	(Optional)	Frequency in seconds
timeout	(Optional)	Timeout in seconds
<i>timeout</i>	(Optional)	Timeout in seconds
retry-down-count	(Optional)	Retry-count when node goes down
<i>count</i>	(Optional)	Count
retry-up-count	(Optional)	Retry-count when node comes back up
<i>up-count</i>	(Optional)	Count

Command Mode

- /exec/configure/itd-device-group

probe 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

Syntax Description		
no	(Optional)	Negate a command or set its defaults
probe		ITD probe
<i>probe-id-dns</i>		Service mode
host		Host name/Target address
<i>host-name</i>		DNS Target IP Address or Hostname
frequency	(Optional)	Frequency
<i>freq-num</i>	(Optional)	Frequency
timeout	(Optional)	Timeout
<i>timeout</i>	(Optional)	Timeout
retry-down-count	(Optional)	Retry-count when node goes down
<i>count</i>	(Optional)	Count
retry-up-count	(Optional)	Retry-count when node comes back up
<i>up-count</i>	(Optional)	Count
ip	(Optional)	ip address for probe
<i>ip-addr</i>	(Optional)	IP4 prefix in format i.i.i.i

Command Mode

- /exec/configure/itd-dg-node

probe host

[no] probe <probe-id-dns> host <host-name> [frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count> | ip <ip-addr>] +

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
probe		ITD probe
<i>probe-id-dns</i>		Service mode
host		Host name/Target address
<i>host-name</i>		DNS Target IP Address or Hostname
frequency	(Optional)	Frequency
<i>freq-num</i>	(Optional)	Frequency
timeout	(Optional)	Timeout
<i>timeout</i>	(Optional)	Timeout
retry-down-count	(Optional)	Retry-count when node goes down
<i>count</i>	(Optional)	Count
retry-up-count	(Optional)	Retry-count when node comes back up
<i>up-count</i>	(Optional)	Count
ip	(Optional)	ip address for probe
<i>ip-addr</i>	(Optional)	IP4 prefix in format i.i.i.i

Command Mode

- /exec/configure/itd-dg-node-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

Syntax Description		
no	(Optional)	Negate a command or set its defaults
probe		ITD probe
<i>probe-id-dns</i>		Service mode
host		Host name/Target address
<i>host-name</i>		DNS Target IP Address or Hostname
frequency	(Optional)	Frequency
<i>freq-num</i>	(Optional)	Frequency
timeout	(Optional)	Timeout
<i>timeout</i>	(Optional)	Timeout
retry-down-count	(Optional)	Retry-count when node goes down
<i>count</i>	(Optional)	Count
retry-up-count	(Optional)	Retry-count when node comes back up
<i>up-count</i>	(Optional)	Count

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

Syntax Description		
no	(Optional)	Negate a command or set its defaults
probe		ITD probe
<i>probe-id-dns</i>		Service mode
host		Host name/Target address
<i>host-name</i>		DNS Target IP Address or Hostname
frequency	(Optional)	Frequency
<i>freq-num</i>	(Optional)	Frequency
timeout	(Optional)	Timeout
<i>timeout</i>	(Optional)	Timeout
retry-down-count	(Optional)	Retry-count when node goes down
<i>count</i>	(Optional)	Count
retry-up-count	(Optional)	Retry-count when node comes back up
<i>up-count</i>	(Optional)	Count
ip	(Optional)	ip address for probe
<i>ip-addr</i>	(Optional)	IP4 prefix in format i.i.i.i

Command Mode

- /exec/configure/itd-dg-node

probe host

[no] probe <probe-id-dns> host <host-name> [frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count> | ip <ip-addr>] +

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
probe		ITD probe
<i>probe-id-dns</i>		Service mode
host		Host name/Target address
<i>host-name</i>		DNS Target IP Address or Hostname
frequency	(Optional)	Frequency in seconds
<i>freq-num</i>	(Optional)	Frequency in seconds
timeout	(Optional)	Timeout in seconds
<i>timeout</i>	(Optional)	Timeout in seconds
retry-down-count	(Optional)	Retry-count when node goes down
<i>count</i>	(Optional)	Count
retry-up-count	(Optional)	Retry-count when node comes back up
<i>up-count</i>	(Optional)	Count
ip	(Optional)	ip address for probe
<i>ip-addr</i>	(Optional)	IP4 prefix in format i.i.i.i

Command Mode

- /exec/configure/itd-dg-node-standby

probe host

[no] probe <probe-id-dns> host <host-name> [frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count>] +

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
probe		ITD probe
<i>probe-id-dns</i>		Service mode
host		Host name/Target address
<i>host-name</i>		DNS Target IP Address or Hostname
frequency	(Optional)	Frequency in seconds
<i>freq-num</i>	(Optional)	Frequency in seconds
timeout	(Optional)	Timeout in seconds
<i>timeout</i>	(Optional)	Timeout in seconds
retry-down-count	(Optional)	Retry-count when node goes down
<i>count</i>	(Optional)	Count
retry-up-count	(Optional)	Retry-count when node comes back up
<i>up-count</i>	(Optional)	Count

Command Mode

- /exec/configure/itd-device-group

probe 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

Syntax Description		
no	(Optional)	Negate a command or set its defaults
probe		ITD probe
<i>probe-id</i>		Service mode
port		Port
<i>port-num</i>		Port number
control	(Optional)	control protocol
<i>status</i>	(Optional)	control protocol status
frequency	(Optional)	Frequency
<i>freq-num</i>	(Optional)	Frequency
timeout	(Optional)	Timeout
<i>timeout</i>	(Optional)	Timeout
retry-down-count	(Optional)	Retry-count when node goes down
<i>count</i>	(Optional)	Count
retry-up-count	(Optional)	Retry-count when node comes back up
<i>up-count</i>	(Optional)	Count
ip	(Optional)	ip address for probe
<i>ip-addr</i>	(Optional)	IP4 prefix in format i.i.i.i

Command Mode

- /exec/configure/itd-dg-node

probe 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

Syntax Description

no	(Optional) Negate a command or set its defaults
probe	ITD probe
<i>probe-id</i>	Service mode
port	Port
<i>port-num</i>	Port number
control	(Optional) control protocol
<i>status</i>	(Optional) control protocol status
frequency	(Optional) Frequency
<i>freq-num</i>	(Optional) Frequency
timeout	(Optional) Timeout
<i>timeout</i>	(Optional) Timeout
retry-down-count	(Optional) Retry-count when node goes down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
<i>up-count</i>	(Optional) Count
ip	(Optional) ip address for probe
<i>ip-addr</i>	(Optional) IP4 prefix in format i.i.i.i

Command Mode

- /exec/configure/itd-dg-node-standby

probe 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

Syntax Description		
no	(Optional)	Negate a command or set its defaults
probe		ITD probe
<i>probe-id</i>		Service mode
port		Port
<i>port-num</i>		Port number
control	(Optional)	control protocol
<i>status</i>	(Optional)	control protocol status
frequency	(Optional)	Frequency
<i>freq-num</i>	(Optional)	Frequency
timeout	(Optional)	Timeout
<i>timeout</i>	(Optional)	Timeout
retry-down-count	(Optional)	Retry-count when node goes down
<i>count</i>	(Optional)	Count
retry-up-count	(Optional)	Retry-count when node comes back up
<i>up-count</i>	(Optional)	Count

Command Mode

- /exec/configure/itd-device-group

probe 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

Syntax Description

no	(Optional) Negate a command or set its defaults
probe	ITD probe
<i>probe-id</i>	Service mode
port	Port
<i>port-num</i>	Port number
control	(Optional) control protocol
<i>status</i>	(Optional) control protocol status
frequency	(Optional) Frequency in seconds
<i>freq-num</i>	(Optional) Frequency in seconds
timeout	(Optional) Timeout in seconds
<i>timeout</i>	(Optional) Timeout in seconds
retry-down-count	(Optional) Retry-count when node goes down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
<i>up-count</i>	(Optional) Count
ip	(Optional) ip address for probe
<i>ip-addr</i>	(Optional) IP4 prefix in format i.i.i.i

Command Mode

- /exec/configure/itd-dg-node

probe port

[no] probe <probe-id> port <port-num> [control <status>] [frequency <freq-num> | timeout <timeout> |
 retry-down-count <count> | retry-up-count <up-count> | ip <ip-addr>] +

Syntax Description

Syntax Description

no	(Optional) Negate a command or set its defaults
probe	ITD probe
<i>probe-id</i>	Service mode
port	Port
<i>port-num</i>	Port number
control	(Optional) control protocol
<i>status</i>	(Optional) control protocol status
frequency	(Optional) Frequency in seconds
<i>freq-num</i>	(Optional) Frequency in seconds
timeout	(Optional) Timeout in seconds
<i>timeout</i>	(Optional) Timeout in seconds
retry-down-count	(Optional) Retry-count when node goes down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
<i>up-count</i>	(Optional) Count
ip	(Optional) ip address for probe
<i>ip-addr</i>	(Optional) IP4 prefix in format i.i.i.i

Command Mode

- /exec/configure/itd-dg-node-standby

probe port

[no] probe <probe-id> port <port-num> [control <status>] [frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count>] +

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
probe		ITD probe
<i>probe-id</i>		Service mode
port		Port
<i>port-num</i>		Port number
control	(Optional)	control protocol
<i>status</i>	(Optional)	control protocol status
frequency	(Optional)	Frequency in seconds
<i>freq-num</i>	(Optional)	Frequency in seconds
timeout	(Optional)	Timeout in seconds
<i>timeout</i>	(Optional)	Timeout in seconds
retry-down-count	(Optional)	Retry-count when node goes down
<i>count</i>	(Optional)	Count
retry-up-count	(Optional)	Retry-count when node comes back up
<i>up-count</i>	(Optional)	Count

Command Mode

- /exec/configure/itd-device-group

promiscuous-mode off

promiscuous-mode { off | on } | no promiscuous-mode [{ off | on }]

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
promiscuous-mode		Configure promiscuous mode for the port
off		Disable promiscuous mode
on		Enable promiscuous mode

Command Mode

- /exec/configure/if-port-channel /exec/configure/if-ethernet-all /exec/configure/if-eth-base

propagate-sgt

[no] propagate-sgt

Syntax Description

Syntax Description

propagate-sgt Enable SGT propagation from this port (the default use the no form to disable)

Command Mode

- /exec/configure/cts-dot1x /exec/configure/cts-manual

protection

[no] protection | protection [fast-reroute [bw-protect]]

Syntax Description

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

protocol-version

protocol-version { <10> | <13> | negotiate } | no protocol-version

Syntax Description

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

Syntax Description

no	Negate a command or set its defaults
protocol-version	Set OpenFlow protocol version
10	Use only OF 1.0 protocol to connect to controller
13	Use only OF 1.3 protocol to connect to controller
negotiate	Negotiate protocol with controller

Command Mode

- /exec/configure/openflow/switch/sub-switch

protocol

{ protocol <num> } | { no protocol }

Syntax Description

Syntax Description	<i>no</i>	Negate a command or set its defaults
	<i>protocol</i>	specify flow protocol number
	<i>num</i>	flow protocol number

Command Mode

- /exec/configure/configngoamprofileflow

protocol shutdown

[no] protocol shutdown

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	protocol	OSPF protocol
	shutdown	Shutdown the OSPF protocol instance

Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

protocol shutdown

[no] protocol shutdown

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	protocol	OSPF protocol
	shutdown	shutdown the OSPF protocol instance

Command Mode

- /exec/configure/router-ospf3 /exec/configure/router-ospf3/vrf

ptp

[no] ptp

Syntax Description

Syntax Description

n (Optional) Negate a command or set its defaults

p Precision Time Protocol (IEEE 1588) Subsystem

Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

ptp announce interval

```
[no] ptp announce interval { <log-seconds> | smpte-2059-2 <smpte-log-seconds> | aes67 <aes-log-seconds>
}
```

Syntax Description

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
announce	announce
interval	interval
<i>log-seconds</i>	log seconds
smpte-2059-2	SMPTE-2059-2
<i>smpte-log-seconds</i>	SMPTE-2059-2 log seconds
aes67	AES67-2015
<i>aes-log-seconds</i>	AES67-2015 log seconds

Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

ptp announce timeout

[no] ptp announce timeout { <val> | smpte-2059-2 <smpte-val> | aes67 <aes-val> }

Syntax Description

Syntax Description		
ptp		Precision Time Protocol (IEEE 1588) Subsystem
announce	announce	
timeout	timeout	
smpte-2059-2		SMPTE-2059-2
aes67		AES67-2015
<i>val</i>		val
<i>smpte-val</i>		SMPTE-2059-2 val
<i>aes-val</i>		AES67-2015 val

Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

ptp delay-request minimum interval

[no] ptp delay-request minimum interval { <log-seconds> | smpte-2059-2 <smpte-log-seconds> | aes67 <aes-log-seconds> }

Syntax Description

Syntax Description		
ptp		Precision Time Protocol (IEEE 1588) Subsystem
delay-request		delay-request
minimum		minimum
interval		interval
smpte-2059-2		SMPTE-2059-2
aes67		AES67-2015
<i>log-seconds</i>		log seconds
<i>smpte-log-seconds</i>		SMPTE-2059-2 log seconds
<i>aes-log-seconds</i>		AES67-2015 log seconds

Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

ptp domain

[no] ptp domain <domain-val>

Syntax Description

Syntax Description	
ptp	Precision Time Protocol (IEEE 1588) Subsystem
domain	ptp clock domain
<i>domain-val</i>	Enter domain value

Command Mode

- /exec/configure

ptp priority1

[no] ptp priority1 <val>

Syntax Description

Syntax Description	<code>ptp</code>	Precision Time Protocol (IEEE 1588) Subsystem
	<code>priority1</code>	<code>priority1</code>
	<i>val</i>	<code>priority1</code>

Command Mode

- /exec/configure

ptp priority2

[no] ptp priority2 <val>

Syntax Description

Syntax Description	<i>ptp</i>	Precision Time Protocol (IEEE 1588) Subsystem
	<i>priority2</i>	<i>priority1</i>
	<i>val</i>	<i>priority2</i>

Command Mode

- /exec/configure

ptp source

```
[no] ptp source <src-ip> [ vrf { <vrf-name> | <vrf-cfg-name> } ]
```

Syntax Description

Syntax Description		
ptp		Precision Time Protocol (IEEE 1588) Subsystem
source		source IP address
<i>src-ip</i>		IPv4 address (A.B.C.D) of source
vrf		(Optional) vrf to be used for hello messages
<i>vrf-name</i>		(Optional) vrf to be used for hellos
<i>vrf-cfg-name</i>		(Optional) Configurable VRF name

Command Mode

- /exec/configure

ptp sync interval

[no] ptp sync interval { <log-seconds> | smpte-2059-2 <smpte-log-seconds> | aes67 <aes-log-seconds> }

Syntax Description

Syntax Description		
ptp		Precision Time Protocol (IEEE 1588) Subsystem
sync		sync
interval		interval
smpte-2059-2		SMPTE-2059-2
aes67		AES67-2015
<i>log-seconds</i>		log seconds
<i>smpte-log-seconds</i>		SMPTE-2059-2 log seconds
<i>aes-log-seconds</i>		AES67-2015 log seconds

Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

ptp vlan

[no] ptp vlan <vlan>

Syntax Description

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

publish-event sub-system type

```
publish-event sub-system <sub-system-id> type <event-type> { [ arg1 <data1> ] [ arg2 <data2> ] [ arg3
<data3> ] [ arg4 <data4> ] }
```

Syntax Description

Syntax Description

publish-event	Publish an application specific event
sub-system	Sub-system ID to which the application event belongs
<i>sub-system-id</i>	Sub-system ID value
type	Event type value
<i>event-type</i>	Event type value
arg1	(Optional) User specified data to be passed when the event is published
<i>data1</i>	(Optional) User specified data value
arg2	(Optional) User specified data to be passed when the event is published
<i>data2</i>	(Optional) User specified data value
arg3	(Optional) User specified data to be passed when the event is published
<i>data3</i>	(Optional) User specified data value
arg4	(Optional) User specified data to be passed when the event is published
<i>data4</i>	(Optional) User specified data value

Command Mode

- /exec

purge ip route

```
purge ip route [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] <all>
```

Syntax Description

Syntax Description		
purge		Purge
ip		IPv4
route		Purge routing information
vrf		(Optional) VRF
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name
vrf-all		(Optional) Display information for all VRFs
all		Purge all routes

Command Mode

- /exec

purge ipv6 route

```
purge ipv6 route [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] <all>
```

Syntax Description

Syntax Description		
purge		Purge
ipv6		IPv6
route		Purge routing information
vrf		(Optional) VRF
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name
vrf-all		(Optional) Display information for all VRFs
all		Purge all routes

Command Mode

- /exec

purge module running-config

purge module <module> running-config

Syntax Description

Syntax Description

purge	Deletes unused data
module	Purge configuration for non-existent modules
<i>module</i>	Enter module number
running-config	purge running configuration for non-existent modules

Command Mode

- /exec

push

push [<name>]

Syntax Description

Syntax Description

push push current mode to stack or save it under name

name (Optional) name

Command Mode

- /global

pwd

pwd

Syntax Description

Syntax Description

pwd View current directory

Command Mode

- /exec

python

python [<uri> [<pyargs>] +]

Syntax Description

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 execute virtual-service command

python execute virtual-service <service> command [<pyargs>] +

Syntax Description

Syntax Description		
python	run a python command/script, or enter python mode (if no arg)	
execute	execute a virtual service command	
virtual-service	virtual service to execute the command	
command	command to execute	
<i>service</i>	name of existing virtual service	
<i>pyargs</i>	(Optional) command and args (maximum 32)	

Command Mode

- /exec

python instance

[no] python instance <inst> [<uri> [<pyargs>] +] | python instance <inst> <uri> [<pyargs>] +

Syntax Description

Syntax Description

<i>no</i>	Negate a command or set its defaults
<i>python</i>	run a python command/script, or enter python mode (if no arg)
<i>instance</i>	label with an instance number
<i>inst</i>	instance number
<i>uri</i>	(Optional) path to a python file
<i>pyargs</i>	(Optional) python command line arguments (maximum 32)

Command Mode

- /exec/configure



Q Commands

- [qos copy policy-map type network-qos prefix, on page 3164](#)
- [qos copy policy-map type queuing prefix, on page 3165](#)
- [qos qos-policies statistics, on page 3166](#)
- [qos shared-policer, on page 3167](#)
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qos copy policy-map type network-qos prefix

qos copy policy-map type network-qos <pmap-nq-enum-name-dc3> { prefix | suffix } <ix-name>

Syntax Description

Syntax Description

copy	Copy (Clone) template
policy-map	Configure a policy map
type	Specify the type of this policy-map
network-qos	Network QoS policy
<i>pmap-nq-enum-name-dc3</i>	
prefix	Policy map name prefix
suffix	Policy map name suffix
<i>ix-name</i>	Suffix/Prefix name, max size counted together with policy name

Command Mode

- /exec

qos copy policy-map type queuing prefix

qos copy policy-map type queuing <pmap-name-que-temp> { prefix | suffix } <ix-name>

Syntax Description

Syntax Description		
copy		Copy (Clone) template
policy-map		Configure a policy map
type		Specify the type of this policy-map
queuing		Queuing policy
<i>pmap-name-que-temp</i>		Policy-map name
prefix		Policy map name prefix
suffix		Policy map name suffix
<i>ix-name</i>		Suffix/Prefix name, max size counted together with policy name

Command Mode

- /exec

qos qos-policies statistics

[no] qos qos-policies statistics

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
---------------------------	----	---

qos-policies	All qos type policies
--------------	-----------------------

statistics	statistics
------------	------------

Command Mode

- /exec/configure

qos shared-policer

```
{ qos shared-policer [ type qos ] <policer-name> { [ cir ] { <cir-val> [ bps | kbps | mbps | gbps | pps ] | percent
<cir-perc> } [ [ bc ] { <committed-burst> [ bytes | kbytes | mbytes | ms | us | packets ] } ] [ pir { <pir-val> [
bps2 | kbps2 | mbps2 | gbps2 | pps2 ] | percent <pir-perc> } [ [ be ] { <extended-burst> [ bytes2 | kbytes2 |
mbytes2 | ms2 | us2 | packets2 ] } ] ] [ conform { transmit | set-prec-transmit { <prec-val> | <prec-enum> } |
set-dscp-transmit { <dscp-val> | <dscp-enum> } | set-cos-transmit <cos-val> | set-discard-class-transmit
<disc-class-val> | set-qos-transmit <qos-grp-val> | set-mpls-exp-imposition-transmit <exp-value-imp> |
set-mpls-exp-topmost-transmit <exp-value-top> } [ exceed { transmit1 | drop1 | set <exc-frm-field>
<exc-to-field> table cir-markdown-map | set-prec-transmit1 { <prec-val1> | <prec-enum1> } | set-dscp-transmit1
{ <dscp-val1> | <dscp-enum1> } | set-cos-transmit1 <cos-val1> | set-discard-class-transmit1 <disc-class-val1>
| set-qos-transmit1 <qos-grp-val1> | set-mpls-exp-imposition-transmit1 <exp-value-imp1> |
set-mpls-exp-topmost-transmit1 <exp-value-top1> } ] [ violate { drop2 | set <vio-frm-field> <vio-to-field>
table2 pir-markdown-map | set-prec-transmit2 { <prec-val2> | <prec-enum2> } | set-dscp-transmit2 {
<dscp-val2> | <dscp-enum2> } | set-cos-transmit2 <cos-val2> | set-discard-class-transmit2 <disc-class-val2>
| set-qos-transmit2 <qos-grp-val2> | set-mpls-exp-imposition-transmit2 <exp-value-imp2> |
set-mpls-exp-topmost-transmit2 <exp-value-top2> } ] ] } | no qos shared-policer [ type qos ] <policer-name>
}
```

Syntax Description

Syntax Description

no	Negate a command or set its defaults
shared-policer	Shared policer
<i>policer-name</i>	Shared policer name
type	(Optional) Specify the type of shared-policer
qos	QoS Global Commands
cir	(Optional) Specify committed information rate
bc	(Optional) Specify committed burst
percent	Specify rate as percentage of interface data-rate
<i>cir-perc</i>	Percentage
<i>pir-perc</i>	(Optional) Percentage
pir	(Optional) Specify peak information rate
be	(Optional) Specify extended burst (for 1R3C meter)
bps	(Optional) Bits per second
kbps	(Optional) Kilo bits per second
mbps	(Optional) Mega bits per second
gbps	(Optional) Giga bits per second

pps	(Optional) Packets per second
bps2	(Optional) Bits per second
kbps2	(Optional) Kilo Bits per second
mbps2	(Optional) Mega Bits per second
gbps2	(Optional) Giga Bits per second
pps2	(Optional) Packets per second
bytes	(Optional) Bytes
kbytes	(Optional) Kilo bytes
mbytes	(Optional) Mega bytes
us	(Optional) Micro second(s)
ms	(Optional) Milli second(s)
packets	(Optional) Packets
bytes2	(Optional) Bytes
kbytes2	(Optional) Kilo Bytes
mbytes2	(Optional) Mega Bytes
ms2	(Optional) Milli seconds
us2	(Optional) Micro seconds
packets2	(Optional) Packets
conform	(Optional) Specify a conform action
exceed	(Optional) Specify a exceed action
violate	(Optional) Specify a violate action
transmit	(Optional) Transmit packet
transmit1	(Optional) Transmit packet
drop1	(Optional) Drop packet
drop2	(Optional) Drop packet
set-prec-transmit	(Optional) Set precedence and send it
set-prec-transmit1	(Optional) Set precedence and send it
set-prec-transmit2	(Optional) Set precedence and send it
<i>prec-val</i>	(Optional) Precedence value

<i>prec-val1</i>	(Optional) Precedence value
<i>prec-val2</i>	(Optional) Precedence value
<i>prec-enum</i>	(Optional)
<i>prec-enum1</i>	(Optional)
<i>prec-enum2</i>	(Optional)
set-dscp-transmit	(Optional) Set dscp and send it
set-dscp-transmit1	(Optional) Set dscp and send it
set-dscp-transmit2	(Optional) Set dscp and send it
<i>dscp-val</i>	(Optional) DSCP value
<i>dscp-val1</i>	(Optional) DSCP value
<i>dscp-val2</i>	(Optional) DSCP value
<i>dscp-enum</i>	(Optional)
<i>dscp-enum1</i>	(Optional)
<i>dscp-enum2</i>	(Optional)
set-cos-transmit	(Optional) Set cos and send it
set-cos-transmit1	(Optional) Set cos and send it
set-cos-transmit2	(Optional) Set cos and send it
<i>cos-val</i>	(Optional) new cos value
<i>cos-val1</i>	(Optional) new cos value
<i>cos-val2</i>	(Optional) new cos value
set-discard-class-transmit	(Optional) Set discard class and send it
set-discard-class-transmit1	(Optional) Set discard class and send it
set-discard-class-transmit2	(Optional) Set discard class and send it
<i>disc-class-val</i>	(Optional) new discard-class value
<i>disc-class-val1</i>	(Optional) new discard-class value
<i>disc-class-val2</i>	(Optional) new discard-class value
set-qos-transmit	(Optional) Set qos-group and send it
set-qos-transmit1	(Optional) Set qos-group and send it
set-qos-transmit2	(Optional) Set qos-group and send it

<i>qos-grp-val</i>	(Optional) QoS group value
<i>qos-grp-val1</i>	(Optional) QoS group value
<i>qos-grp-val2</i>	(Optional) QoS group value
set-mpls-exp-imposition-transmit	(Optional) set-mpls-exp-imposition-transmit
set-mpls-exp-imposition-transmit1	(Optional) set-mpls-exp-imposition-transmit
set-mpls-exp-imposition-transmit2	(Optional) set-mpls-exp-imposition-transmit
<i>exp-value-imp</i>	(Optional) MPLS imposition value
<i>exp-value-imp1</i>	(Optional) MPLS imposition value
<i>exp-value-imp2</i>	(Optional) MPLS imposition value
set-mpls-exp-topmost-transmit	(Optional) Set MPLS topmost label
set-mpls-exp-topmost-transmit1	(Optional) Set MPLS topmost label
set-mpls-exp-topmost-transmit2	(Optional) Set MPLS topmost label
<i>exp-value-top</i>	(Optional) MPLS topmost value
<i>exp-value-top1</i>	(Optional) MPLS topmost value
<i>exp-value-top2</i>	(Optional) MPLS topmost value
set	(Optional) Set a particular value using table or markdown map
<i>exc-frm-field</i>	(Optional)
<i>exc-to-field</i>	(Optional)
<i>vio-frm-field</i>	(Optional)
<i>vio-to-field</i>	(Optional)
table	(Optional) Set using the table-map
table2	(Optional) Set using the table-map
cir-markdown-map	(Optional) Markdown map table name for exceed action
pir-markdown-map	(Optional) Markdown map table name for violate action

Command Mode

- /exec/configure

qos statistics

[no] qos statistics

Syntax Description

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

Syntax Description		
	no	(Optional) Negate a command or set its defaults
	<i>udf_tcam_type</i>	Region type
	qualify	Configure UDFs to be qualified for span region
	udf	Configure UDF names
	<i>udf_name</i>	UDF name

Command Mode

- /exec/configure/tcam-templ

queue-limit

```
[no] queue-limit [ cos <cos-val> ] { <q-size> [ packets | bytes | kbytes | mbytes | ms | us ] | percent <perc-q-size>
| dynamic <alpha> }
```

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
queue-limit	Configure queue size for the class
cos	(Optional) IEEE 802.1Q Class of Service
cos-val	(Optional) 802.1Q Class of Service value
percent	Specify queue size in Percentage
perc-q-size	Queue size in percentage of total tx/rx buffer size
dynamic	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-limit2

```
[no] queue-limit2 [ cos2 <cos-val> ] { <q-size> [ packets | bytes | kbytes | mbytes | ms | us ] | percent2
<perc-q-size> | dynamic2 <alpha> }
```

Syntax Description

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



R Commands

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radius-server deadtime

[no] radius-server deadtime <i0>

Syntax Description

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
	<i>i0</i>	Length of time, in minutes

Command Mode

- /exec/configure

radius-server directed-request

[no] radius-server directed-request

Syntax Description

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

Syntax Description

<i>key</i>	0
no	(Optional) Negate a command or set its defaults
radius-server	Configure RADIUS related parameters
host	RADIUS server's DNS name or its IP address
<i>hostipname</i>	IPV4/IPV6 address or DNS name
key	RADIUS shared secret
pac	(Optional) Secure Radius Enable
0	RADIUS shared secret(clear text)
<i>s0</i>	RADIUS shared secret(clear text)
accounting	(Optional) Use for accounting
retransmit	(Optional) RADIUS server retransmit count
<i>i5</i>	(Optional) RADIUS server retransmit count
timeout	(Optional) RADIUS server timeout period in seconds
<i>i4</i>	(Optional) RADIUS server timeout period in seconds
retransmit1	(Optional) RADIUS server retransmit count
<i>i7</i>	(Optional) RADIUS server retransmit count
auth-port	(Optional) RADIUS server's port for authentication
<i>i0</i>	(Optional) port number
timeout1	(Optional) RADIUS server timeout period in seconds
<i>i6</i>	(Optional) RADIUS server timeout period in seconds
acct-port	(Optional) RADIUS server's port for accounting
<i>i1</i>	(Optional) port number
accounting1	(Optional) Use for accounting

authentication	(Optional) Use for authentication
6	Radius shared secret(type-6 encrypted)
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 { <hostipname> } test { { username <s0> { [ password <s1> [ idle-time <i1> ] ] | [ idle-time <i1> ] } } | { password <s1> [ idle-time <i1> ] } | { idle-time <i1> } }
```

Syntax Description

Syntax Description	
<i>username</i>	<s0>
no	(Optional) Negate a command or set its defaults
radius-server	Configure RADIUS related parameters
host	RADIUS server's DNS name or its IP address
<i>hostipname</i>	IPV4/IPV6 address or DNS name
test	Parameters to send test packets
<i>s0</i>	user name
password	(Optional) user password in test packets
<i>s1</i>	(Optional) user password
idle-time	(Optional) time interval for monitoring the server
<i>i1</i>	(Optional) time period in minutes

Command Mode

- /exec/configure

radius-server key 0 6 7

```
{ { [ no ] radius-server key { 0 <s0> | 6 <s6> | 7 <s1> | <s2> } } | { no radius-server key } }
```

Syntax Description

Syntax Description	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 pss-clean

[no] radius-server pss-clean

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
radius-server	Configure RADIUS related parameters
pss-clean	Erase PSS

Command Mode

- /exec/configure

radius-server retransmit

[no] radius-server retransmit <i0>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
radius-server	Configure RADIUS related parameters
retransmit	Global RADIUS server retransmit count
<i>i0</i>	Global RADIUS server retransmit count

Command Mode

- /exec/configure

radius-server test

```
[no] radius-server test { { username <s0> { [ password <s1> [ idle-time <i1> ] ] [ idle-time <i1> ] } } | { password <s1> [ idle-time <i1> ] } | { idle-time <i1> } }
```

Syntax Description

Syntax Description	
<i>username</i>	<s0>
<i>no</i>	(Optional) Negate a command or set its defaults
<i>radius-server</i>	Configure RADIUS related parameters
<i>test</i>	Parameters to send test packets
<i>s0</i>	user name
<i>password</i>	(Optional) user password in test packets
<i>s1</i>	(Optional) user password
<i>idle-time</i>	(Optional) time interval for monitoring the server
<i>i1</i>	(Optional) time period in minutes

Command Mode

- /exec/configure

radius-server timeout

[no] radius-server timeout <i0>

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	radius-server	Configure RADIUS related parameters
	timeout	Global RADIUS server timeout period in seconds
	<i>i0</i>	RADIUS server timeout period in seconds

Command Mode

- /exec/configure

random-detect

```
[no] random-detect [ { minimum-threshold <min-thresh> { packets | bytes | kbytes | mbytes }
maximum-threshold <max-thresh> { packets1 | bytes1 | kbytes1 | mbytes1 } drop-probability <drop-prob>
weight <weight> [ cap-average ] } | threshold { burst-optimized | mesh-optimized } ] [ ecn ]
```

Syntax Description

Syntax Description

no	(Optional) Negate a command or set its defaults
random-detect	Configure WRED parameters
threshold	(Optional) Threshold
burst-optimized	(Optional) Threshold optimized for bursty traffic
mesh-optimized	(Optional) Threshold optimized for mesh traffic
minimum-threshold	(Optional) Specify minimum threshold for WRED
maximum-threshold	(Optional) Specify maximum threshold for WRED
<i>max-thresh</i>	(Optional) Maximum threshold value
packets	(Optional) Packets
bytes	(Optional) Bytes
kbytes	(Optional) Kilo bytes
mbytes	(Optional) Mega bytes
packets1	(Optional) Packets
bytes1	(Optional) Bytes
kbytes1	(Optional) Kilo Bytes
mbytes1	(Optional) Mega Bytes
drop-probability	(Optional) Drop Probability at Maximum Threshold
<i>drop-prob</i>	(Optional) Drop Probability Value
weight	(Optional) Queue length weight
<i>weight</i>	(Optional) Queue length weight
cap-average	(Optional) If average queue length is more, replace average queue length with current queue length
ecn	(Optional) ECN

Command Mode

- /exec/configure/policy-map/type/queuing/class

random-detect2 minimum-threshold2 maximum-threshold2

```
[no] random-detect2 minimum-threshold2 <min-thresh2> { packets2 | bytes2 | kbytes2 | mbytes2 }
maximum-threshold2 <max-thresh2> { packets3 | bytes3 | kbytes3 | mbytes3 } [ drop-probability2 <drop-prob2>
weight2 <weight2> [ cap-average2 ] ]
```

Syntax Description

Syntax Description

no	(Optional) Negate a command or set its defaults
random-detect2	Configure WRED parameters
minimum-threshold2	Specify minimum threshold for WRED
maximum-threshold2	Specify maximum threshold for WRED
packets2	Packets
bytes2	Bytes
kbytes2	Kilo Bytes
mbytes2	Mega Bytes
packets3	Packets
bytes3	Bytes
kbytes3	Kilo Bytes
mbytes3	Mega Bytes
drop-probability2	(Optional) Drop Probability at Maximum Threshold
<i>drop-prob2</i>	(Optional) Drop Probability Value
weight2	(Optional) Queue length weight
<i>weight2</i>	(Optional) Queue length weight
cap-average2	(Optional) If average queue length is more, replace average queue length with current queue length

Command Mode

- /exec/configure/policy-map/type/queuing/class

random-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

Syntax Description

no	(Optional) Negate a command or set its defaults
random-detect	Configure WRED parameters
cos	Parameters for each cos value
<i>cos-list</i>	List of class-of-service values
minimum-threshold	(Optional) Specify minimum threshold for WRED
maximum-threshold	(Optional) Specify maximum threshold for WRED
<i>max-thresh</i>	Maximum threshold value
percent	Specify thresholds in percent
percent1	Specify thresholds in percent
<i>min-percent-of-qsize</i>	Minimum threshold percent of queue size
<i>max-percent-of-qsize</i>	Maximum threshold percent of queue size
packets	(Optional) Packets
bytes	(Optional) Bytes
kbytes	(Optional) Kilo bytes
mbytes	(Optional) Mega bytes
ms	(Optional) Milli second(s)
us	(Optional) Micro second(s)
packets1	(Optional) Packets
bytes1	(Optional) Bytes
kbytes1	(Optional) Kilo Bytes
mbytes1	(Optional) Mega Bytes
ms1	(Optional) Milli second(s)
us1	(Optional) Micro second(s)

Command Mode

- /exec/configure/policy-map/type/queuing/class

random-detect cos-based

```
[no] random-detect cos-based [ aggregate [ minimum-threshold ] { <min-thresh> [ packets | bytes | kbytes |
mbytes | ms | us ] | percent <min-percent-of-qsize> } [ maximum-threshold ] { <max-thresh> [ packets1 |
bytes1 | kbytes1 | mbytes1 | ms1 | us1 ] | percent1 <max-percent-of-qsize> } ]
```

Syntax Description

Syntax Description

no	(Optional) Negate a command or set its defaults
random-detect	Configure WRED parameters
cos-based	Configure WRED parameters for cos-based mode
aggregate	(Optional) Configure WRED parameters to same value for all sub-classes
minimum-threshold	(Optional) Specify minimum threshold for WRED
maximum-threshold	(Optional) Specify maximum threshold for WRED
<i>max-thresh</i>	(Optional) Maximum threshold value
percent	(Optional) Specify thresholds in percent
percent1	(Optional) Specify thresholds in percent
<i>min-percent-of-qsize</i>	(Optional) Minimum threshold percent of queue size
<i>max-percent-of-qsize</i>	(Optional) Maximum threshold percent of queue size
packets	(Optional) Packets
bytes	(Optional) Bytes
kbytes	(Optional) Kilo bytes
mbytes	(Optional) Mega bytes
ms	(Optional) Milli second(s)
us	(Optional) Micro second(s)
packets1	(Optional) Packets
bytes1	(Optional) Bytes
kbytes1	(Optional) Kilo Bytes
mbytes1	(Optional) Mega Bytes
ms1	(Optional) Milli second(s)
us1	(Optional) Micro second(s)

Command Mode

- /exec/configure/policy-map/type/queuing/class

rate-limit cpu direction pps action log

[no] rate-limit cpu direction { input | output | both } pps <pps-val> action log

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
rate-limit	set packet per second rate limit
cpu	Supervisor CPU limits
direction	input/output direction
input	set max input packet rate
output	set max output packet rate
both	set max input and output packet rate
pps	packet per second
<i>pps-val</i>	pps value
action	log action
log	write a syslog message if PPS hits rate-limit

Command Mode

- /exec/configure

rate-limit cpu direction pps action log

[no] rate-limit cpu direction { input | output | both } pps <pps-val> action log

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
rate-limit	set packet per second rate limit
cpu	Supervisor CPU limits
direction	input/output direction
input	set max input packet rate
output	set max output packet rate
both	set max input and output packet rate
pps	packet per second
<i>pps-val</i>	pps value
action	log action
log	write a syslog message if PPS hits rate-limit

Command Mode

- /exec/configure/if-eth-base /exec/configure/if-eth-any /exec/configure/if-mgmt-config

rate-limit packet_in burst

rate-limit packet_in <packetin-val> burst <burst-val> | no rate-limit

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
rate-limit		OpenFlow rate limit to controller
packet_in		packet in rate (pps)
<i>packetin-val</i>		packets per second
burst		Maximum number of packets to controller (pps)
<i>burst-val</i>		packets per second

Command Mode

- /exec/configure/openflow/switch

rate-limit packet_in burst

rate-limit packet_in <packetin-val> burst <burst-val> | no rate-limit

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
rate-limit		OpenFlow rate limit to controller
packet_in		packet in rate (pps)
<i>packetin-val</i>		packets per second
burst		Maximum number of packets to controller (pps)
<i>burst-val</i>		packets per second

Command Mode

- /exec/configure/openflow/switch/sub-switch

rate-mode

rate-mode <ratemode> [force] | no rate-mode [<ratemode>] [force]

Syntax Description

Syntax Description

no	Negate a command or set its defaults
rate-mode	Enter the rate mode
force	(Optional) This option will shutdown all ports in port-group momentarily
<i>ratemode</i>	Interface port speed

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-base

rd auto

```
{ rd { auto | <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } } | { no rd [ { auto | <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
rd		VPN Route Distinguisher
auto		Generate RD automatically
<i>ext-comm-rd-aa4nn2</i>		VPN route distinguisher in aa4:nn or ip:nn format
<i>ext-comm-rd-aa2nn4</i>		VPN route distinguisher in aa:nn format

Command Mode

- /exec/configure/vrf

rd auto

```
{ rd { auto | <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } } | { no rd [ { auto | <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] }
```

Syntax Description

Syntax Description

no	Negate a command or set its defaults
rd	VPN Route Distinguisher
auto	Generate RD automatically
<i>ext-comm-rd-aa2nn4</i>	VPN route distinguisher in aa:nn format
<i>ext-comm-rd-aa4nn2</i>	VPN route distinguisher in aa4:nn or ip:nn format

Command Mode

- /exec/configure/evpn/evi

reconnect-interval

reconnect-interval <interval> | no reconnect-interval [<interval>]

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	reconnect-interval	Configure connection reconnect interval
	<i>interval</i>	Interval in seconds

Command Mode

- /exec/configure/router-bgp/vrf-cmds

record-route

[no] record-route

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
record-route	Record the route used by the LSP

Command Mode

- /exec/configure/te/lsp-attr

record-route

[no] record-route

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	record-route	record the route used by the tunnel

Command Mode

- /exec/configure/if-te /exec/configure/tunnel-te/cbts-member

record

[no] record <recordname>

Syntax Description

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

Syntax Description

record	Specify Flow Record to use
--------	----------------------------

netflow-original	Traditional IPv4 input NetFlow with origin ASs
------------------	--

Command Mode

- /exec/configure/nfm-monitor

record netflow

```
[no] record netflow { ipv4 { original-input | original-output } }
```

Syntax Description

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
	original-output	Traditional IPv4 output NetFlow

Command Mode

- /exec/configure/nfm-monitor

record netflow

```
[no] record netflow { ipv6 { original-input | original-output } }
```

Syntax Description

Syntax Description		
record		Specify Flow Record to use
netflow		Traditional NetFlow collection schemes
ipv6		IPv6 collection schemes
original-input		Input NetFlow
original-output		Output NetFlow

Command Mode

- /exec/configure/nfm-monitor

record netflow

```
[no] record netflow { layer2-switched { input } }
```

Syntax Description

Syntax Description

record	Specify Flow Record to use
netflow	Traditional NetFlow collection schemes
layer2-switched	Traditional L2 NetFlow collection schemes
input	Input NetFlow

Command Mode

- /exec/configure/nfm-monitor

record netflow protocol-port

[no] record netflow protocol-port

Syntax Description

Syntax Description		
	record	Specify Flow Record to use
	netflow	Traditional NetFlow collection schemes
	protocol-port	Protocol and Ports aggregation scheme

Command Mode

- /exec/configure/nfm-monitor

redistribute-internal

[no] redistribute-internal

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	redistribute-internal	iBGP redistribution into an IGP

Command Mode

- /exec/configure/router-bgp/router-bgp-af-ipv4 /exec/configure/router-bgp/router-bgp-vrf-af-ipv4
/exec/configure/router-bgp/router-bgp-af-ipv6 /exec/configure/router-bgp/router-bgp-vrf-af-ipv6

redistribute bgp

```
{ redistribute { { bgp <as> } | { eigrp | isis | ospfv3 | rip } <ptag> | static | direct | amt | lisp } route-map {
<policy-name> | <rtr_pol_name> } } | { no redistribute { { bgp <as> } | { eigrp | isis | ospfv3 | rip } <ptag> |
static | direct | amt | lisp } [ route-map { <policy-name> | <rtr_pol_name> } ] }
```

Syntax Description

Syntax Description

no	Negate a command or set its defaults
redistribute	Redistribute information from another routing protocol
bgp	Border Gateway Protocol (BGP)
as	Autonomous system number
eigrp	Enhanced Interior Gateway Protocol (EIGRP)
isis	ISO Intermediate-to-Intermediate (IS-IS)
ospfv3	Open Shortest Path First (OSPFv3)
rip	Routing Information Protocol (RIP)
ptag	Process Tag
static	Static
direct	Directly connected
amt	AMT anycast prefix
lisp	LISP EID-prefixes
route-map	Policy to constrain redistribution
<i>policy-name</i>	Route-map name
<i>rtr_pol_name</i>	An existing routing-rules policy

Command Mode

- /exec/configure/router-ospf3/router-ospf3-af-ipv6 /exec/configure/router-ospf3/vrf/router-ospf3-af-ipv6

redistribute bgp eigrp isis ospf rip static direct amt lisp route-map

```
{ redistribute { bgp <as> | { eigrp | isis | ospf | rip } <ptag> | static | direct | amt | lisp } route-map {
<policy-name> | <rtr_pol_name> } } | { no redistribute { bgp <as> | { eigrp | isis | ospf | rip } <ptag> | static
| direct | amt | lisp } [ route-map { <policy-name> | <rtr_pol_name> } ] }
```

Syntax Description

Syntax Description

no	Negate a command or set its defaults
redistribute	Redistribute information from another routing protocol
bgp	Border Gateway Protocol (BGP)
as	Autonomous system number
isis	ISO Intermediate-to-Intermediate (IS-IS)
ospf	Open Shortest Path First (OSPFv2)
eigrp	Enhanced Interior Gateway Protocol (EIGRP)
rip	Routing Information Protocol (RIP)
ptag	Protocol Tag
static	Static
direct	Directly connected
amt	AMT anycast prefix
lisp	LISP EID-prefixes
route-map	Policy to constrain redistribution
policy-name	Route-map name
rtr_pol_name	An existing routing-rules policy

Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

redistribute filter route-map

[no] redistribute filter route-map { <map-name> | <rtr_pol_name> }

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
redistribute	Redistribute information from another routing protocol
filter	Filter redistributed routes
route-map	Route-map to constrain redistribution
<i>map-name</i>	A 'routing-rules' route-map name
<i>rtr_pol_name</i>	An existing routing-rules policy

Command Mode

- /exec/configure/otv-isis/otv-isis-vrf-common

redistribute maximum-prefix

```
{ redistribute maximum-prefix <maximum> [ <threshold> ] [ warning-only | withdraw [ <retries> <timeout> ] ] } | { no redistribute maximum-prefix <maximum> [ <threshold> ] [ warning-only | withdraw [ <retries> <timeout> ] ] }
```

Syntax Description

Syntax Description

<code>no</code>	Negate a command or set its defaults
<code>redistribute</code>	Redistribute information from another routing protocol
<code>maximum-prefix</code>	Maximum number of prefixes redistributed to protocol
<i>maximum</i>	Maximum number of IP prefixes redistributed
<i>threshold</i>	(Optional) Threshold value (%) at which to generate a warning message
<code>warning-only</code>	(Optional) Log a warning message when limit is exceeded
<code>withdraw</code>	(Optional) Withdraw all redistributed routes
<i>retries</i>	(Optional) Number of times to retry to get the redistributed routes again
<i>timeout</i>	(Optional) Timeout between each retries

Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

redistribute maximum-prefix

```
redistribute maximum-prefix <maximum> [ <threshold> ] [ warning-only | withdraw [ <retries> <timeout> ] ] | no redistribute maximum-prefix [ <maximum> [ <threshold> ] [ warning-only | withdraw [ <retries> <timeout> ] ] ]
```

Syntax Description

Syntax Description

<code>no</code>	Negate a command or set its defaults
<code>redistribute</code>	Redistribute information from another routing protocol
<code>maximum-prefix</code>	Max number of prefixes redistributed
<i>maximum</i>	max number
<i>threshold</i>	(Optional) Threshold in %, at which message is generated
<code>warning-only</code>	(Optional) Warning msg is logged when threshold is reached
<code>withdraw</code>	(Optional) Withdraw all redistributed routes
<i>retries</i>	(Optional) Number of attempts to receive redistributed routes after max is reached
<i>timeout</i>	(Optional) Retry interval

Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

redistribute maximum-prefix

```
redistribute maximum-prefix <maximum> [ <threshold> ] [ warning-only | withdraw [ <retries> <timeout> ] ] | no redistribute maximum-prefix [ <maximum> [ <threshold> ] [ warning-only | withdraw [ <retries> <timeout> ] ] ]
```

Syntax Description

Syntax Description

no	Negate a command or set its defaults
redistribute	Redistribute information from another routing protocol
maximum-prefix	Max number of prefixes redistributed
<i>maximum</i>	max number
<i>threshold</i>	(Optional) Threshold in %, at which message is generated
warning-only	(Optional) Warning msg is logged when max is reached
withdraw	(Optional) Withdraw all redistributed routes
<i>retries</i>	(Optional) No of times to retry to get redist routes again
<i>timeout</i>	(Optional) Time between the retries

Command Mode

- /exec/configure/router-isis/router-isis-vrf-common /exec/configure/router-isis/router-isis-af-ipv4

redistribute maximum-prefix

```
redistribute maximum-prefix <maximum> [ <threshold> ] [ warning-only | withdraw [ <retries> <timeout>
]] | no redistribute maximum-prefix [ <maximum> [ <threshold> ] [ warning-only | withdraw [ <retries>
<timeout> ] ] ]
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
redistribute		Redistribute information from another routing protocol
maximum-prefix		Max number of prefixes redistributed
<i>maximum</i>		max number
<i>threshold</i>	(Optional)	Threshold in %, at which message is generated
warning-only	(Optional)	Warning msg is logged when max is reached
withdraw	(Optional)	Withdraw all redistributed routes
<i>retries</i>	(Optional)	No of times to retry to get redistrib routes again
<i>timeout</i>	(Optional)	Time between the retries

Command Mode

- /exec/configure/router-isis/router-isis-af-ipv6

redistribute maximum-prefix

```
{ redistribute maximum-prefix <maximum> [ <threshold> ] [ warning-only | withdraw [ <retries> <timeout> ] ] } | { no redistribute maximum-prefix }
```

Syntax Description

Syntax Description		
<code>no</code>		Negate a command or set its defaults
<code>redistribute</code>		Redistribute information from another routing protocol
<code>maximum-prefix</code>		Maximum number of prefixes redistributed to protocol
<i>maximum</i>		Maximum number of IP prefixes redistributed
<i>threshold</i>	(Optional)	Threshold value (%) at which to generate a warning message
<code>warning-only</code>	(Optional)	Log a warning message when limit is exceeded
<code>withdraw</code>	(Optional)	Withdraw all redistributed routes
<i>retries</i>	(Optional)	Number of times to retry to get the redistributed routes again
<i>timeout</i>	(Optional)	Timeout between each retries

Command Mode

- /exec/configure/router-ospf3/router-ospf3-af-ipv6 /exec/configure/router-ospf3/vrf/router-ospf3-af-ipv6

redistribute route-map

[no] redistribute { static | direct | amt | lisp | hmm | { { eigrp | isis | ospf | rip } <tag> } } route-map <rmap-name>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
redistribute	Configure redistribution
static	Static routes
direct	Directly connected
isis	ISO IS-IS
ospf	Open Shortest Path First (OSPF)
rip	Routing Information Protocol (RIP)
eigrp	Enhanced Interior Gateway Protocol
amt	AMT anycast prefix
lisp	LISP EID-prefixes in the non-default VRF
hmm	HMM prefix
route-map	Route-map applied to redistributed routes
<i>rmap-name</i>	Route-map name
<i>tag</i>	Source protocol tag

Command Mode

- /exec/configure/router-bgp/router-bgp-af-ipv4 /exec/configure/router-bgp/router-bgp-vrf-af-ipv4

redistribute route-map

```
[no] redistribute { static | direct | amt | lisp | hmm | { { eigrp | isis | ospfv3 | rip } <tag> } } route-map
<rmap-name>
```

Syntax Description

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
route-map	Route-map applied to redistributed routes
<i>rmap-name</i>	Route-map name
<i>tag</i>	Source protocol tag

Command Mode

- /exec/configure/router-bgp/router-bgp-af-ipv6 /exec/configure/router-bgp/router-bgp-vrf-af-ipv6

redistribute route-map

[no] redistribute { bgp <as> | { eigrp | isis | ospfv3 | rip } <tag> | static | direct | amt | lisp } route-map <map-name>

Syntax Description

Syntax Description

no	(Optional) Negate a command or set its defaults
redistribute	RIP redistribute routes from other routing protocol
bgp	Border Gateway Protocol (BGP)
as	Autonomous system number
eigrp	Enhanced Interior Gateway Routing Protocol (EIGRP)
isis	Intermediate-to-intermediate (ISIS)
rip	Routing Information Protocol (RIP)
ospfv3	Open Shortest Path First (OSPFv3)
tag	Process tag
static	Static routes
direct	Directly connected routes
amt	AMT anycast prefix
lisp	LISP EID-prefixes
route-map	Policy to constrain redistribution
map-name	Route-map name

Command Mode

- /exec/configure/router-rip/router-rip-af-ipv6 /exec/configure/router-rip/router-rip-vrf-af-ipv6

redistribute route-map

[no] redistribute { bgp <as> | { eigrp | isis | ospf | rip } <tag> | static | direct | amt | lisp } route-map <map-name>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
redistribute	RIP redistribute routes from other routing protocol
bgp	Border Gateway Protocol (BGP)
eigrp	Enhanced Interior Gateway Routing Protocol (EIGRP)
as	Autonomous system number
isis	Intermediate-to-intermediate (ISIS)
rip	Routing Information Protocol (RIP)
ospf	Open Shortest Path First (OSPFv2)
tag	Process tag
static	Static routes
direct	Directly connected routes
amt	AMT anycast prefix
lisp	LISP EID-prefixes
route-map	Policy to constrain redistribution
map-name	Route-map name

Command Mode

- /exec/configure/router-rip/router-rip-af-ipv4 /exec/configure/router-rip/router-rip-vrf-af-ipv4

redistribute route-map

```
[no] redistribute { bgp <as> | { eigrp | isis | ospf | rip } <tag> | static | direct | amt | lisp } route-map {
<map-name> | <rtr_pol_name> }
```

Syntax Description

Syntax Description

<code>no</code>	(Optional) Negate a command or set its defaults
<code>redistribute</code>	Redistribute information from another routing protocol
<code>bgp</code>	Border Gateway Protocol (BGP)
<code>as</code>	Autonomous system number
<code>isis</code>	IS-IS Routing for IPv4
<code>ospf</code>	Open Shortest Path First (OSPF)
<code>rip</code>	Routing Information Protocol (RIP)
<code>eigrp</code>	Enhanced Interior Gateway Routing Protocol (EIGRP)
<code>tag</code>	Process tag
<code>static</code>	Static routes
<code>direct</code>	Directly connected
<code>lisp</code>	LISP EID-prefixes
<code>amt</code>	AMT Anycast prefix
<code>route-map</code>	Route-map to constrain redistribution
<code>map-name</code>	Route-map name
<code>rtr_pol_name</code>	An existing routing-rules policy

Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-ipv4

redistribute route-map

```
[no] redistribute { bgp <as> | { eigrp | isis | ospfv3 | rip } <tag> | static | direct | amt | lisp } route-map {
<map-name> | <rtr_pol_name> }
```

Syntax Description

Syntax Description

no	(Optional) Negate a command or set its defaults
redistribute	Redistribute information from another routing protocol
bgp	Border Gateway Protocol (BGP)
as	Autonomous system number
isis	IS-IS Routing for IPv4
ospfv3	Open Shortest Path First (OSPF) V3
rip	Routing Information Protocol (RIP)
eigrp	Enhanced Interior Gateway Routing Protocol (EIGRP)
tag	Process tag
static	Static routes
direct	Directly connected
amt	AMT Anycast prefix
lisp	LISP EID-prefixes
route-map	Route-map to constrain redistribution
map-name	Route-map name
rtr_pol_name	An existing routing-rules policy

Command Mode

- /exec/configuration/router-eigrp/router-eigrp-af-ipv6

redistribute route-map

```
[no] redistribute { bgp <as> | { eigrp | isis | ospf | rip } <tag> | static | direct | amt } route-map { <map-name>
| <rtr_pol_name> }
```

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
redistribute	Redistribute information from another routing protocol
bgp	Border Gateway Protocol (BGP)
as	Autonomous system number
isis	IS-IS Routing for IPv4
ospf	Open Shortest Path First (OSPF)
eigrp	Enhanced Interior Gateway Protocol
rip	RIP for IPv4
tag	Process tag
static	Static routes
direct	Directly connected
amt	AMT anycast prefix
route-map	Route-map to constrain redistribution
map-name	A 'routing-rules' route-map name
rtr_pol_name	An existing routing-rules policy

Command Mode

- /exec/configure/router-isis/router-isis-vrf-common /exec/configure/router-isis/router-isis-af-ipv4

redistribute route-map

```
[no] redistribute { bgp <as> | { eigrp | isis | ospfv3 | rip } <tag> | static | direct | amt } route-map { <map-name>
| <rtr_pol_name> }
```

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
redistribute	Redistribute information from another routing protocol	
bgp	Border Gateway Protocol (BGP)	
as	Autonomous system number	
isis	IS-IS Routing for IPv6	
ospfv3	Open Shortest Path First (OSPF) V3	
eigrp	Enhanced Interior Gateway Protocol	
rip	RIP for IPv6 (RIPNG)	
tag	Process tag	
static	Static routes	
direct	Directly connected	
amt	AMT anycast prefix	
route-map	Route-map to constrain redistribution	
map-name	A 'routing-rules' route-map name	
rtr_pol_name	An existing routing-rules policy	

Command Mode

- /exec/configure/router-isis/router-isis-af-ipv6

redundancy-group

[no] redundancy-group

Syntax Description

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

Syntax Description		
no	(Optional)	Negate a command or set its defaults
reference-bandwidth		Change reference bandwidth used for setting interface metric
<i>ref-bw-mbps</i>		Bandwidth in Mbps (Default)
Mbps	(Optional)	Specify in Mbps
<i>ref-bw-gbps</i>		Bandwidth in Gbps
Gbps		Specify in Gbps

Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

register-database-mapping

{ [no] register-database-mapping }

Syntax Description

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

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

Syntax Description

reload reboot the entire box

Command Mode

- /exec

reload ascii

reload ascii [vdc-all]

Syntax Description

Syntax Description

reload Power cycle

ascii Reload with ASCII startup-configuration

vdc-all (Optional) Perform for all vdc's

Command Mode

- /exec

reload force

reload force

Syntax Description

Syntax Description	reload	reboot the entire box
---------------------------	--------	-----------------------

	force	reload without prompting
--	-------	--------------------------

Command Mode

- /exec

reload kexec

reload kexec

Syntax Description

Syntax Description

reload reboot the entire
box

kexec reboot using kexec

Command Mode

- /exec

reload kexec

```
reload kexec <s0> <s1>
```

Syntax Description

Syntax Description

`reload` reboot the entire box

`kexec` reboot using kexec

s0 please enter the boot image name

s1 please enter the isan image name

Command Mode

- `/exec`

reload module

reload module <module>

Syntax Description

Syntax Description

reload reboot the entire box

module reboot a specific module

module please enter the module number

Command Mode

- /exec

reload module force-dnld

reload module <module> force-dnld

Syntax Description

Syntax Description

reload reboot the entire box

module reboot a specific module

module please enter the module number

force-dnld reboot a specific module to force NetBoot and image download

Command Mode

- /exec

reload module hard

reload module <module> hard

Syntax Description

Syntax Description

reload reboot the entire box

module reboot a specific module

module please enter the module number

hard hard reboot a specific module

Command Mode

- /exec

reload non-interruptive

reload non-interruptive

Syntax Description

Syntax Description		
	reload	reboot the entire box
	non-interruptive	Reboot without interruption

Command Mode

- /exec

reload power-cycle

reload power-cycle

Syntax Description

Syntax Description

reload	reboot the entire box
--------	-----------------------

power-cycle	Power cycle ADM
-------------	-----------------

Command Mode

- /exec

reload restore

reload restore [delay <time-out>] | no reload restore

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
reload	Settings for vpc action on reload with vpc configs
restore	restore vpcs assuming peer is not functional
delay	(Optional) Duration to wait before assuming peer dead and restoring vpcs
<i>time-out</i>	(Optional) Time-out for restoring vPC links (in seconds)

Command Mode

- /exec/configure/vpc-domain

reload sync-adjacency

reload sync-adjacency

Syntax Description

Syntax Description		
reload		reboot the entire box
sync-adjacency	Reload with sync adjacency	

Command Mode

- /exec

reload sync-adjacency

reload sync-adjacency

Syntax Description

Syntax Description	reload	reload with sync adjacency
	sync-adjacency	Reload with ARP/ND sync adjacency

Command Mode

- /exec

reload vdc

reload vdc <d-vdc>

Syntax Description

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

Syntax Description	vdc	Restart the current vdc
---------------------------	-----	-------------------------

	reload	Power cycle
--	--------	-------------

Command Mode

- /exec

remark

```
{ [ <seqno> ] | no } remark <comment>
```

Syntax Description

Syntax Description	
<code>no</code>	Negate a command or set its defaults
<code>seqno</code>	(Optional) Sequence number
<code>remark</code>	Access list entry comment
<code>comment</code>	Comment, up to 100 characters

Command Mode

- /exec/configure/macacl /exec/configure/arpacl /exec/configure/timerange

remark

{ [<seqno>] | no } remark <comment>

Syntax Description

Syntax Description	
<i>no</i>	Negate a command or set its defaults
<i>seqno</i>	(Optional) Sequence number
<i>remark</i>	Access list entry comment
<i>comment</i>	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

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

remote

```
remote { { ip address { <ipaddress> } | hostname <host_name> } [ port <port_no> ] [ vrf { <vrf-name> |
<vrf-known-name> } ] | port <port_no> | vrf { <vrf-name> | <vrf-known-name> } } | no remote { ip address
| hostname | port }
```

Syntax Description

Syntax Description

no	Negate a command or set its defaults
remote	Configure remote machine information
ip	Configure IP features
address	Configure IP address
<i>ipaddress</i>	Enter ipv4 address information
hostname	Configure remote host name
<i>host_name</i>	Enter name of the remote host
port	(Optional) Configure remote host tcp port
<i>port_no</i>	(Optional) Configure the host tcp port number
vrf	(Optional) vrf via which the vCenter Server is reachable
<i>vrf-name</i>	(Optional) Specify the vrf-name
<i>vrf-known-name</i>	(Optional) Known VRF name

Command Mode

- /exec/configure/vmt-conn

remove-private-as

[no | default] remove-private-as [all | replace-as]

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
default	(Optional)	Inherit values from a peer template
remove-private-as		Remove private AS number from outbound updates
all	(Optional)	All
replace-as	(Optional)	Replace

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor-sess

remove-routes vni

```
remove-routes vni <vni-id>
```

Syntax Description

Syntax Description

remove-routes NVE Peer

vni Virtual Network Identifier

vni-id VNI

Command Mode

- /exec/configure/if-nve

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

Syntax Description	
no	(Optional) Negate a command or set its defaults
reoptimize	Reoptimization parameters
events	Reoptimization triggers
link-up	Reoptimize tunnels on link up events
timers	Reoptimization timers
delay	Delay reoptimization action
cleanup	Delay cleanup of reoptimized LSP
<i>clean_sec</i>	seconds to delay cleanup of replaced tunnel LSP
installation	Delay replacement of current LSP by reoptimized LSP
<i>inst_sec</i>	seconds to delay replacement of tunnel LSP
frequency	Interval between reoptimization scans
<i>freq_sec</i>	seconds between reoptimizations (0 disables reoptimization)

Command Mode

- /exec/configure/te

replay-protection

[no] replay-protection

Syntax Description

Syntax Description

replay-protection Enable replay-protection (the default use the no form to disable)

Command Mode

- /exec/configure/cts-dot1x /exec/configure/cts-manual

replication-server

[no] replication-server <addr>

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	replication-server	Configure a replication server
	<i>addr</i>	Replication Server IP Address

Command Mode

- /exec/configure/if-nve

report

report

Syntax Description

Syntax Description

report Show trigger
report

Command Mode

- /exec/elanms/sel3

report

report

Syntax Description

Syntax Description

report Show trigger
report

Command Mode

- /exec/elanms/sel4

report

report

Syntax Description

Syntax Description

report Show trigger
report

Command Mode

- /exec/elanms/sel5

report

report

Syntax Description

Syntax Description

report Show trigger
report

Command Mode

- /exec/elanms/sel6

report

report

Syntax Description

Syntax Description

report Show trigger
report

Command Mode

- /exec/elanms/sel7

report

report

Syntax Description

Syntax Description

report Show trigger
report

Command Mode

- /exec/elanms/outsel0

report

report

Syntax Description

Syntax Description

report Show trigger
report

Command Mode

- /exec/elanms/outsel5

request-data-size

{ { no | default } request-data-size | request-data-size <bytes-in-payload> }

Syntax Description

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

Syntax Description	
no	
default	Set a command to its defaults
request-data-size	Request data size
<i>bytes-in-payload</i>	Number of bytes in payload

Command Mode

- /exec/configure/ip-sla/icmpEcho

request-data-size

{ { no | default } request-data-size | request-data-size <bytes-in-payload> }

Syntax Description

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

Syntax Description		
<code>resequence</code>		Resequence a list with sequence numbers
<code>ip_ipv6_mac_arp</code>		IP/IPv6/MAC/ARP
<code>access-list</code>		Resequence an access list
<code>time-range</code>		Resequence a time-range
<code>name</code>		List name
<code>number</code>		Starting sequence number
<code>increment</code>		Step to increment the sequence number

Command Mode

- /exec/configure

reset

reset

Syntax Description

Syntax Description

`reset` Reset Trigger conditions

Command Mode

- /exec/elanms/se13

reset

reset

Syntax Description

Syntax Description

`reset` Reset Trigger conditions

Command Mode

- /exec/elanms/sel4

reset

reset

Syntax Description

Syntax Description

`reset` Reset Trigger conditions

Command Mode

- /exec/elanms/se15

reset

reset

Syntax Description

Syntax Description

`reset` Reset Trigger conditions

Command Mode

- /exec/elanms/sel6

reset

reset

Syntax Description

Syntax Description

`reset` Reset Trigger conditions

Command Mode

- /exec/elanms/sel7

reset

reset

Syntax Description

Syntax Description

`reset` Reset Trigger conditions

Command Mode

- /exec/elanms/outsel0

reset

reset

Syntax Description

Syntax Description

`reset` Reset Trigger conditions

Command Mode

- /exec/elanms/outsel5

restart amt

restart amt

Syntax Description

Syntax Description

restart Manually restart a component

amt Restart the AMT multicast routing protocol

Command Mode

- /exec

restart bgp

```
restart bgp <as>
```

Syntax Description

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

Syntax Description		
restart		Manually restart a component
eigrp		Enhanced Interior Gateway Routing Protocol (EIGRP)
<i>eigrp-ptag</i>		Process tag

Command Mode

- /exec

restart igmp

restart igmp

Syntax Description

Syntax Description

restart Manually restart a component

igmp Restart the IGMP multicast routing protocol

Command Mode

- /exec

restart isis

restart isis <tag>

Syntax Description

Syntax Description

restart Manually restart a component

isis Intermediate System to Intermediate System (IS-IS)

tag Routing process tag

Command Mode

- /exec

restart l3vm

restart l3vm

Syntax Description

Syntax Description

restart Manually restart a component

l3vm Display VRF information

Command Mode

- /exec

restart lisp

restart lisp

Syntax Description

Syntax Description

restart Manually restart a component

lisp Restart the LISP Locator/ID Separation Protocol

Command Mode

- /exec

restart msdp

restart msdp

Syntax Description

Syntax Description

restart Manually restart a component

msdp Restart the MSDP multicast routing protocol

Command Mode

- /exec

restart orib

restart orib

Syntax Description

Syntax Description

restart Manually restart a component

orib OTV RIB (ORIB)

Command Mode

- /exec

restart ospf

restart ospf <tag>

Syntax Description

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

Syntax Description	<i>restart</i> Manually restart a component
	<i>ospfv3</i> Open Shortest Path First (OSPF) (Version 3)
	<i>tag</i> Process tag

Command Mode

- /exec

restart otv-isis

restart otv-isis <tag>

Syntax Description

Syntax Description

restart Manually restart a component

otv-isis Intermediate System to Intermediate System (IS-IS)

tag Routing process tag

Command Mode

- /exec

restart otv

restart otv

Syntax Description

Syntax Description

restart Manually restart a component

otv Overlay Transport Virtualization (OTV)

Command Mode

- /exec

restart pim

restart pim

Syntax Description

Syntax Description

restart Manually restart a component

pim Restart the PIM multicast routing protocol

Command Mode

- /exec

restart pim6

restart pim6

Syntax Description

Syntax Description

restart Manually restart a component

pim6 Restart the PIM6 multicast routing protocol

Command Mode

- /exec

restart pim stateless

restart pim stateless

Syntax Description

Syntax Description

restart Manually restart a component

pim Restart the PIM multicast routing protocol

stateless Restart PIM in stateless mode

Command Mode

- /exec

restart rip

restart rip <tag>

Syntax Description

Syntax Description

restart Manually restart a component

rip Routing Information Protocol (RIP)

tag Process ID

Command Mode

- /exec

restart rpm

restart rpm

Syntax Description

Syntax Description

restart Manually restart a component

rpm Route Policy Manager
(RPM)

Command Mode

- /exec

restart rsvp

restart rsvp

Syntax Description

Syntax Description

restart Manually restart a process

rsvp RSVP process

Command Mode

- /exec

resync-database

resync-database

Syntax Description

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

Syntax Description	
no	(Optional) Negate a command or set its defaults
retain	Retain the routes based on Target VPN Extended Communities
route-target	Specify Target VPN Extended Communities
all	All the routes regardless of Target-VPN community
route-map	Apply route-map to filter routes
<i>rmap-name</i>	Route-map name

Command Mode

- /exec/configure/router-bgp/router-bgp-af-vpnv4 /exec/configure/router-bgp/router-bgp-af-vpnv6
/exec/configure/router-bgp/router-bgp-af-l2vpn-evpn

retain route-target all

[no] retain route-target { all | route-map <rmap-name> }

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
retain	Retain the routes based on Target VPN Extended Communities
route-target	Specify Target VPN Extended Communities
all	All the routes regardless of Target-VPN community
route-map	Apply route-map to filter routes
<i>rmap-name</i>	Route-map name

Command Mode

- /exec/configure/router-bgp/router-bgp-af-l2vpn-vpls

retransmit-interval

```
{ { retransmit-interval <interval> } | { no retransmit-interval [ <interval> ] } }
```

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	retransmit-interval	Packet retransmission interval
	<i>interval</i>	(seconds)

Command Mode

- /exec/configure/router-ospf/router-ospf-vlink /exec/configure/router-ospf/vrf/router-ospf-vlink

retransmit-interval

```
{ { retransmit-interval <interval> } | { no retransmit-interval [ <interval> ] } }
```

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	retransmit-interval	Packet retransmission interval
	<i>interval</i>	(seconds)

Command Mode

- /exec/configure/router-ospf/vrf/router-ospf-slink

retransmit-interval

```
{ { retransmit-interval <interval> } | { no retransmit-interval [ <interval> ] } }
```

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	retransmit-interval	Packet retransmission interval
	<i>interval</i>	(seconds)

Command Mode

- /exec/configure/router-ospf3/router-ospf3-vlink /exec/configure/router-ospf3/vrf/router-ospf3-vlink

revision

revision <rev-id> | no revision [<rev-id>]

Syntax Description

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

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

Syntax Description	
no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
rewrite-evpn-rt-asn	Auto generate RTs for EBGP neighbor in EVPN AF

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-l2vpn-evpn

rfc1583compatibility

[no] rfc1583compatibility

Syntax Description

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

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

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

Syntax Description

no	Negate a command or set its defaults
rmon	Remote Monitoring
alarm	Configure an RMON alarm
<i>i0</i>	Alarm number
<i>s0</i>	MIB object to monitor
<i>i1</i>	Sample interval
absolute	Test each sample directly
delta	Test delta between samples
rising-threshold	Configure the rising threshold
<i>i2</i>	Rising threshold value
<i>i3</i>	(Optional) Event to fire on rising threshold crossing
falling-threshold	Configure the falling threshold
<i>i4</i>	Falling threshold value
<i>i5</i>	(Optional) Event to fire on falling threshold crossing
owner	(Optional) Specify an owner for the alarm
<i>s1</i>	(Optional) Alarm owner

Command Mode

- /exec/configure

rmon event

rmon event <i0> [log] [trap <s0>] [description <s1>] [owner <s2>] | no rmon event <i0>

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
rmon		Remote Monitoring
event		Configure an RMON event
<i>i0</i>		Event number
log	(Optional)	Generate RMON log when the event fires
trap	(Optional)	Generate SNMP trap when event fires
<i>s0</i>	(Optional)	SNMP community string
description	(Optional)	Specify a description of the event
<i>s1</i>	(Optional)	Event description
owner	(Optional)	Specify an owner for the event
<i>s2</i>	(Optional)	Event owner

Command Mode

- /exec/configure

rmon hcalarm absolute startupalarm rising-threshold falling-threshold owner

```
rmon hcalarm <i0> <s0> <i1> { absolute | delta } startupalarm <i2> rising-threshold <i3> <i4> falling-threshold <i5> <i6> owner <s1> | no rmon hcalarm <i0>
```

Syntax Description

Syntax Description

no	Negate a command or set its defaults
rmon	Remote Monitoring
hcalarm	Configure an High Capacity RMON alarm
<i>i0</i>	Alarm number
<i>s0</i>	MIB object to monitor
<i>i1</i>	Sample interval
absolute	Test each sample directly
delta	Test delta between samples
startupalarm	Configure alarm type
<i>i2</i>	Startup alarm type, rising(1) falling(2) risingorfalling(3)
rising-threshold	Configure the rising threshold
<i>i3</i>	Rising threshold value in bytes
<i>i4</i>	Event to fire on rising threshold crossing
falling-threshold	Configure the falling threshold
<i>i5</i>	Falling threshold value in bytes
<i>i6</i>	Event to fire on falling threshold crossing
owner	Specify an owner for the alarm
<i>s1</i>	Alarm owner

Command Mode

- /exec/configure

roaming-eid-prefix

```
{ [ no ] roaming-eid-prefix { <eid-prefix> | <eid-prefix6> } }
```

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	roaming-eid-prefix	Configures what EID-prefixes allowed to roam
	<i>eid-prefix</i>	IPv4 roaming EID-prefix

Command Mode

- /exec/configure/lisp-dynamic-eid /exec/configure/vrf/lisp-dynamic-eid

role feature-group name

[no] role feature-group name <arg6>

Syntax Description

Syntax Description		
	no	(Optional) Negate a command or set its defaults
	role	Configure roles
	feature-group	Configure role feature-group
	name	Feature-group name
	<i>arg6</i>	Enter feature-group name

Command Mode

- /exec/configure

role name

[no] role name <arg2>

Syntax Description

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

Syntax Description		
	no	Negate a command or set its defaults
	role	Role related configuration
	priority	Configure priority to be used during vPC role (primary/secondary) election
	<i>priority_value</i>	specify priority value

Command Mode

- /exec/configure/vpc-domain

rollback progress stats

[no] rollback progress stats

Syntax Description

Syntax Description	
no	(Optional) negate the command
rollback	Rollback configuration
progress	Rollback progress
stats	Enable rollback progress stats

Command Mode

- /exec

rollback running-config checkpoint

```
rollback running-config { checkpoint <chkpoint_name> | file <file_uri> } [ best-effort | stop-at-first-failure |
atomic ] [ verbose ]
```

Syntax Description

Syntax Description

rollback	Rollback configuration
running-config	Rollback running configuration
checkpoint	Rollback running configuration to checkpoint
<i>chkpoint_name</i>	Checkpoint name
file	Rollback running configuration to configuration file
<i>file_uri</i>	Checkpoint file path
best-effort	(Optional) Skip errors and proceed with rollback
stop-at-first-failure	(Optional) Stop rollback at the first error
atomic	(Optional) Stop rollback and revert to original configuration (default)
verbose	(Optional) Show the execution log

Command Mode

- /exec

route-map

route-map <rtmap-name> [permit | deny]

Syntax Description

Syntax Description	route-map	Create route-map or enter route-map command mode
	<i>rtmap-name</i>	Route-map name
	permit	(Optional) Route map permits set operations
	deny	(Optional) Route map denies set operations

Command Mode

- /exec/configure

route-map

```
route-map <rtmap-name> [ permit | deny ] <seq>
```

Syntax Description

Syntax Description

route-map	Create route-map or enter route-map command mode
-----------	--

<i>rtmap-name</i>	Route-map name
-------------------	----------------

permit	(Optional) Route map permits set operations
--------	---

deny	(Optional) Route map denies set operations
------	--

<i>seq</i>	Sequence to insert to/delete from existing route-map entry
------------	--

Command Mode

- /exec/configure

route-map

[no] route-map { <rtmap-name> | <rtmap-name> } [permit | deny]

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
route-map	Create route-map or enter route-map command mode
<i>rtmap-name</i>	Route-map name
<i>rtmap-name</i>	Known route-map name
permit	(Optional) Route map permits set operations
deny	(Optional) Route map denies set operations

Command Mode

- /exec/configure

route-map

[no] route-map { <rtmap-name> | <rtmap-name> } [permit | deny] <seq>

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
route-map	Create route-map or enter route-map command mode
<i>rtmap-name</i>	Route-map name
<i>rtmap-name</i>	Known route-map name
permit	(Optional) Route map permits set operations
deny	(Optional) Route map denies set operations
<i>seq</i>	Sequence to insert to/delete from existing route-map entry

Command Mode

- /exec/configure

route-map out

[no | default] route-map <rmap-name> { out | in }

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
route-map	Apply route-map to neighbor
<i>rmap-name</i>	Route-map name
out	Apply policy to outgoing routes
in	Apply policy to incoming routes

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv4
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-mdt
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv6
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-l2vpn-vpls
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-mvpn
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv6-mvpn
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-l2vpn-evpn
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-label
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv6-label

route-map pbr-statistics

```
route-map <route-map-name> pbr-statistics | no route-map { <route-map-name> | <route-map-name> }
pbr-statistics
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
route-map		Create route-map or enter route-map command mode
<i>route-map-name</i>		Route-map name
<i>route-map-name</i>		Route-map name
<i>route-map-name</i>		Known route-map name
pbr-statistics		Statistics for policy based routing

Command Mode

- /exec/configure

route-reflector-client

[no | default] route-reflector-client

Syntax Description

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
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-link-state
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-label
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv6-label

route-reflector-client

[no | default] route-reflector-client

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
default	(Optional)	Inherit values from a peer template
route-reflector-client		Configure a neighbor as Route reflector client

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-mdt
/exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-l2vpn-vpls

route-target both auto

```
{ route-target both { auto | <ext-comm-rt-aa2nn4> | <ext-comm-rt-aa4nn2> } [ evpn ] } | { no route-target
both [ auto | <ext-comm-rt-aa2nn4> | <ext-comm-rt-aa4nn2> ] [ evpn ] }
```

Syntax Description

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
<i>ext-comm-rt-aa2nn4</i>		RT extcommunity in aa:nn format
<i>ext-comm-rt-aa4nn2</i>		RT extcommunity in aa4:nn or ip: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

Syntax Description	no	Negate a command or set its defaults
route-target		Specify Target VPN Extended Communities
auto		Generate RT automatically
both		Export and Import Target-VPN community
<i>ext-comm-rt-aa2nn4</i>		RT extcommunity in aa:nn format
<i>ext-comm-rt-aa4nn2</i>		RT extcommunity in aa4:nn or ip:nn format

Command Mode

- /exec/configure/evpn/evi

route-target export

```
{ route-target export { <ext-comm-rt-aa2nn4> | <ext-comm-rt-aa4nn2> } [ evpn ] } | { no route-target export
{ <ext-comm-rt-aa2nn4> | <ext-comm-rt-aa4nn2> } [ evpn ] }
```

Syntax Description

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
<i>ext-comm-rt-aa4nn2</i>		RT extcommunity in aa4:nn or ip:nn format
<i>ext-comm-rt-aa2nn4</i>		RT extcommunity in aa:nn format

Command Mode

- /exec/configure/vrf-af-ipv4 /exec/configure/vrf-af-ipv6

route-target export auto

```
{ route-target export { auto | <ext-comm-rt-aa2nn4> | <ext-comm-rt-aa4nn2> } } | { no route-target export {
auto | <ext-comm-rt-aa2nn4> | <ext-comm-rt-aa4nn2> } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
route-target		Specify Target VPN Extended Communities
auto		Generate RT automatically
export		Export Target-VPN community
<i>ext-comm-rt-aa2nn4</i>		RT extcommunity in aa:nn format
<i>ext-comm-rt-aa4nn2</i>		RT extcommunity in aa4:nn or ip:nn format

Command Mode

- /exec/configure/evpn/evi

route-target import

```
{ route-target import { <ext-comm-rt-aa2nn4> | <ext-comm-rt-aa4nn2> } [ evpn ] } | { no route-target import
{ <ext-comm-rt-aa2nn4> | <ext-comm-rt-aa4nn2> } [ evpn ] }
```

Syntax Description

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
<i>ext-comm-rt-aa4nn2</i>		RT extcommunity in aa4:nn or ip:nn format
<i>ext-comm-rt-aa2nn4</i>		RT extcommunity in aa:nn format

Command Mode

- /exec/configure/vrf-af-ipv4 /exec/configure/vrf-af-ipv6

route-target import auto

```
{ route-target import { auto | <ext-comm-rt-aa2nn4> | <ext-comm-rt-aa4nn2> } } | { no route-target import
{ auto | <ext-comm-rt-aa2nn4> | <ext-comm-rt-aa4nn2> } }
```

Syntax Description

Syntax Description	no	Negate a command or set its defaults
route-target		Specify Target VPN Extended Communities
import		Import Target-VPN community
auto		Generate RT automatically
<i>ext-comm-rt-aa2nn4</i>		RT extcommunity in aa:nn format
<i>ext-comm-rt-aa4nn2</i>		RT extcommunity in aa4:nn or ip:nn format

Command Mode

- /exec/configure/evpn/evi

route delete dampen interval

[no] route delete dampen interval <time>

Syntax Description

Syntax Description

no	(Optional) Negate a command or set its defaults
route	Display routing information
delete	Dampen route delete update to hardware
dampen	Dampen update to hardware
interval	Dampen interval
time	Dampen interval in seconds

Command Mode

- /exec/configure

router-id

[no] router-id <router-id>

Syntax Description

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-id

```
{ { router-id <id> } | { no router-id [ <id> ] } }
```

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	router-id	Set OSPF process router-id
	<i>id</i>	Router ID Value

Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

router-id

```
{ { [ eigrp ] router-id <id> } | { no [ eigrp ] router-id [ <id> ] } }
```

Syntax Description

Syntax Description

no	Negate a command or set its defaults
eigrp	(Optional) EIGRP router configuration commands
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 [ vrf { <vrf-name> | <vrf-known-name> } ] <interface> [ force ] | no router-id [ { vrf { <vrf-name> | <vrf-known-name> } | <interface> [ force ] } ]
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
router-id		Select interface to prefer for LDP identifier address
vrf		(Optional) VRF Routing/Forwarding instance information
<i>vrf-name</i>		(Optional) VPN Routing/Forwarding instance name
<i>vrf-known-name</i>		(Optional) Known VRF name
<i>interface</i>		
force		(Optional) Forcibly change the LDP router id

Command Mode

- /exec/configure/ldp

router-id

{ { router-id <id> } | { no router-id [<id>] } }

Syntax Description

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 bgp

[no] router bgp <as>

Syntax Description

Syntax Description	<i>no</i> (Optional) Negate a command or set its defaults
	<i>router</i> Enable a routing process
	<i>bgp</i> Border Gateway Protocol (BGP)
	<i>as</i> Autonomous

Command Mode

- /exec/configure

router eigrp

[no] router eigrp <eigrp-ptag>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
router	Enable a routing process
eigrp	Enhanced Interior Gateway Routing Protocol (EIGRP)
<i>eigrp-ptag</i>	Process tag

Command Mode

- /exec/configure

router isis

[no] router isis <tag>

Syntax Description

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

Syntax Description	<i>no</i> (Optional) Negate a command or set its defaults
	<i>router</i> Enable a routing process
	<i>ospf</i> Open Shortest Path First (OSPF)
	<i>tag</i> Process tag

Command Mode

- /exec/configure

router ospfv3

[no] router ospfv3 <tag>

Syntax Description

Syntax Description	<i>no</i> (Optional) Negate a command or set its defaults
	<i>router</i> Enable a routing process
	<i>ospfv3</i> Open Shortest Path First (OSPF) (Version 3)
	<i>tag</i> Process tag

Command Mode

- /exec/configure

router rip

[no] router rip <tag>

Syntax Description

Syntax Description	<i>no</i> (Optional) Negate a command or set its defaults
	<i>router</i> Enable a routing process
	<i>rip</i> Routing Information Protocol (RIP)
	<i>tag</i> Process ID

Command Mode

- /exec/configure

routing-context vrf

```
routing-context vrf <vrf-known-name>
```

Syntax Description

Syntax Description	
routing-context	Set the routing context
vrf	The new routing-context VRF
<i>vrf-known-name</i>	Known VRF name

Command Mode

- /exec

routing ipv4 unicast nexthop-sorting

[no] routing ipv4 unicast nexthop-sorting

Syntax Description

Syntax Description		
	no	(Optional) Negate a command or set its defaults
	routing	Routing events
	ipv4	IP events
	unicast	unicast
	nexthop-sorting	Sort nhs while storing

Command Mode

- /exec/configure

routing ipv6 unicast nexthop-sorting

[no] routing ipv6 unicast nexthop-sorting

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
routing		Routing events
ipv6		Configure IPv6 features
unicast	unicast	
nexthop-sorting	Sort nhs while storing	

Command Mode

- /exec/configure

rsakeypair

[no] rsakeypair <s0> [<i0>]

Syntax Description

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

Syntax Description	
no	(Optional) Negate a command or set its defaults
rtr	Configure RTR in ELP ordered list
etr	Configure ETR in ELP ordered list
eid	Configure EID in ELP ordered list
<i>locator</i>	IPv4 locator for RTR/ETR or EID
strict	(Optional) ELP hop must be used in Explicit Locator Path
probe	(Optional) RLOC-probe next-hop in ELP
<i>seq</i>	Sequence to insert or delete RTR/ETR/EID ELP entry

Command Mode

- /exec/configure/lisp-elp /exec/configure/vrf/lisp-elp

rule

```
rule <number> { <action> } { { <permission> [ <featuretype> <name> ] } } | no rule <number>
```

Syntax Description

Syntax Description		
<code>no</code>		Negate a command or set its defaults
<code>rule</code>		Enter the rule number
<i>number</i>		Enter the rule number
<i>action</i>		Action
<i>permission</i>		Permission
<i>featuretype</i>	(Optional)	Feature type
<i>name</i>	(Optional)	Enter the access entity name

Command Mode

- /exec/configure/role

rule command

rule <number> { <action> } { command <cmd_line> } | no rule <number>

Syntax Description

Syntax Description

no	Negate a command or set its defaults
rule	Enter the rule number
<i>number</i>	Enter the rule number
<i>action</i>	Action
command	Command line
<i>cmd_line</i>	Enter the command (use space+' ' for command separator) e.g. config t role *

Command Mode

- /exec/configure/role

rule oid

rule <number> <action> <permission> oid <snmp_oid> | no rule <number>

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
rule		Enter the rule number
<i>number</i>		Enter the rule number
<i>action</i>		Action
<i>permission</i>		Permission
oid		SNMP oid (up to 32 elements)
<i>snmp_oid</i>		Enter snmp oid instance name

Command Mode

- /exec/configure/role

run-script

run-script <uri0>

Syntax Description

Syntax Description

run-script Run shell scripts

uri0 Enter script file name

Command Mode

- /exec

run-show-tech-script

run-show-tech-script <s0>

Syntax Description

Syntax Description	run-show-tech-script	Run show tech script
---------------------------	----------------------	----------------------

<i>s0</i>	fname
-----------	-------

Command Mode

- /exec

run2 guestshell

```
run2 guestshell [ { <cmd_args> } ]
```

Syntax Description

Syntax Description	<hr/> <code>run2</code> execute/run program!!! <hr/>
	<code>guestshell</code> The guest shell Linux-bash <hr/>
	<code>cmd_args</code> (Optional) The command to execute <hr/>

Command Mode

- /exec

run bash

run bash [<cmd>]

Syntax Description

Syntax Description

run execute/run program

bash linux-bash

cmd (Optional) the command to execute

Command Mode

- /exec



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sampler

[no] sampler <samplername>

Syntax Description

Syntax Description

sampler	Define a Sampler
---------	---------------------

<i>samplername</i>	Name of sampler
--------------------	--------------------

Command Mode

- /exec/configure

sap hash-algorithm HMAC-SHA-1

{ [no] sap hash-algorithm HMAC-SHA-1 } | { sap hash-algorithm HMAC-MD5 }

Syntax Description

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

Syntax Description	
sap	Specify preferred SAP negotiation parameters
modelist	encryption mode
<i>mode_opt</i>	modelist options

Command Mode

- /exec/configure/cts-dot1x

sap pmk sap pmk use-dot1x

```
sap pmk <pmk> [ left-zero-padded ] [ modelist <mode_opt> ] | sap pmk use-dot1x [ modelist <mode_opt> ]
| no sap
```

Syntax Description

Syntax Description

<code>sap</code>	Specify preferred SAP negotiation parameters
<code>pmk</code>	pairwise master key
<code>pmk</code>	32 byte value specified as a string
<code>left-zero-padded</code>	(Optional) Pad with zeros on the left if PMK length is less than 32 bytes
<code>modelist</code>	(Optional) encryption mode
<code>mode_opt</code>	(Optional) modelist options
<code>modelist</code>	(Optional) <mode_opt>
<code>use-dot1x</code>	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

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

Syntax Description		
no		(Optional) Negate a command or set its defaults
scale-factor		Scale factor
<i>sf-value</i>		Specify scale factor value from 0.10 to 2.00
module		Module
<i>module-number</i>		specify module number

Command Mode

- /exec/configure/ctrl-plane

scheduler aaa-authentication

```
{ scheduler aaa-authentication { password { 0 <s0> | 7 <s1> | <s2> } | username <s3> password { 01 <s4> | 71 <s5> | <s6> } } | no scheduler aaa-authentication { password [ { 0 <s0> | 7 <s1> | <s2> } ] | username <s3> password [ { 01 <s4> | 71 <s5> | <s6> } ] } }
```

Syntax Description

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
<i>s0</i>	password (clear text) of logged in user
7	Encrypted password of logged in user
<i>s1</i>	Encrypted password (for AAA authentication)
<i>s2</i>	Password (clear text) of logged in user
username	logged in user name
<i>s3</i>	user name (for AAA authentication)
password	Specify the password of logged in user(for AAA authentication)
01	Password (clear text) of logged in user
<i>s4</i>	password (clear text) of logged in user
71	Encrypted password of logged in user
<i>s5</i>	Encrypted password (for AAA authentication)
<i>s6</i>	Password (clear text) of logged in user

Command Mode

- /exec/configure

scheduler enable

[no] scheduler enable

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
scheduler	Config commands for scheduler
enable	Command to enable/disable features

Command Mode

- /exec/configure

scheduler job name

[no] scheduler job name <s0>

Syntax Description

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

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

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

Syntax Description		
no		Negate a command or set its defaults
scheduler		Config commands for scheduler
transport		Configure transport related configuration
email		Configure email transport related configuration
from		Configure from email address
s0		Provide from email address, example: SJ-9500-1@xyz.com
reply-to		Configure replyto email address
s1		Provide reply-to email address, example: admin@xyz.com
smtp-server		Configure SMTP server address
host0		SMTP server(DNS name or IPv4 or IPv6 address)
port		(Optional) Configure SMTP server port (default:25)
i1		(Optional) SMTP server port

Command Mode

- /exec/configure

scp

scp [<recurse>] <from> [<hyphen>] <src-path>

Syntax Description

Syntax Description	scp	Launch scp subsystem
	<i>recurse</i>	(Optional) -r recurse
	<i>from</i>	-f scp from
	<i>hyphen</i>	(Optional) --
	<i>src-path</i>	from URL

Command Mode

- /exec

scp

scp [<recurse>] [<directory>] [<verbose>] <to> [<hyphen>] <dst-path>

Syntax Description

Syntax Description

scp	Launch scp subsystem
<i>recurse</i>	(Optional) -r recurse
<i>directory</i>	(Optional) -d directory
<i>verbose</i>	(Optional) -v verbose
<i>to</i>	-t scp to
<i>hyphen</i>	(Optional) --
<i>dst-path</i>	to URL

Command Mode

- /exec

scripting tcl init

scripting tcl init <uri0> | no scripting tcl init

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
scripting	Configure scripting parameters
tcl	Specify scripting parameter for tcl
init	Specify init parameters
<i>uri0</i>	Tcl init script name

Command Mode

- /exec

scripting tcl recursion-limit

scripting tcl recursion-limit <limit> | no scripting tcl recursion-limit

Syntax Description

Syntax Description		
	no	Negate a command or set its defaults
	scripting	Configure scripting parameters
	tcl	Specify scripting parameter for tcl
	recursion-limit	Specify recursion-limit
	<i>limit</i>	Specify limit

Command Mode

- /exec

search

search <failure_desc>

Syntax Description

Syntax Description	
search	Search for information
<i>failure_desc</i>	Brief problem description

Command Mode

- /exec

section

| section <pattern>

Syntax Description

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

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-policy

[no] security-policy <policy>

Syntax Description

Syntax Description

security-policy	Configure Security policy
-----------------	---------------------------

<i>policy</i>	Security Policy options
---------------	-------------------------

Command Mode

- /exec/configure/masec-policy

sed

| sed [-n] + <expr>

Syntax Description

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-routing mpls

[no] segment-routing mpls

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	segment-routing	segment-routing properties
	mpls	MPLS configuration commands

Command Mode

- /exec/configure

send-community

[no | default] send-community [both | standard]

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
send-community	Send Community attribute to this neighbor
both	(Optional) Send Standard and Extended Community attributes
standard	(Optional) Send Standard Community attribute

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv4
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv6
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-l2vpn-evpn
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-mvpn
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv6-mvpn
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-link-state
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-label
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv6-label

send-community

[no | default] send-community [both | extended | standard]

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
default	(Optional)	Inherit values from a peer template
send-community		Send Community attribute to this neighbor
both	(Optional)	Send Standard and Extended Community attributes
extended	(Optional)	Send Extended Community attribute
standard	(Optional)	Send Standard Community attribute

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-mdt
/exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-l2vpn-vpls

send-community extended

[no | default] send-community extended

Syntax Description

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 } <sday> <syecar> { 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> <eyecar> } } | { 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> <syecar>
{ 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> <eyecar> } ] } }
```

Syntax Description

Syntax Description

no	Negate a command or set its defaults
send-lifetime	Set send lifetime of key
local	(Optional) Specify time in local timezone
<i>stime</i>	HH:MM:SS Time to start <0-23>:<0-59>:<0-59>
<i>etime</i>	HH:MM:SS Time to end <0-23>:<0-59>:<0-59>
month_a	
month_b	
month_c	
month_d	
month_e	
month_f	
month_g	
month_h	
month_i	
month_j	
month_k	
month_l	
<i>sday</i>	Day of the month to start

send-lifetime month_a month_b month_c month_d month_e month_f month_g month_h month_i month_j month_k month_l duration infinite month_a month_b
month_c month_d month_e month_f month_g month_h month_i month_j month_k month_l

<i>eday</i>	Day of the month to end
<i>syear</i>	Year to start
<i>eyear</i>	Year to end
<i>duration</i>	Set key lifetime duration
<i>dsec</i>	Duration in seconds
<i>infinite</i>	Never Expires

Command Mode

- /exec/configure/keychain-key

send

send <line>

Syntax Description

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

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

sensor-group

[no] sensor-group <sgrp-id>

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	sensor-group	Create a sensor group
	<i>sgrp-id</i>	Identifier

Command Mode

- /exec/configure/telemetry

server

[no] server <hostipname>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
server	RADIUS server name or IP address
<i>hostipname</i>	IPV4/IPV6 address or DNS name

Command Mode

- /exec/configure/radius

server

[no] server <host0>

Syntax Description

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 { <hostipname> }

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	server	TACACS+ server name or IP address
	<i>hostipname</i>	IPV4/IPV6 address or DNS name

Command Mode

- /exec/configure/tacacs+

server protocol ldap ip

```
[no] server protocol ldap { ip <ipaddr> | host <hostname> } [ port <portnum> ] [ vrf { <vrf-name> | <vrf-known-name> } ] [ enable-ssl ]
```

Syntax Description

Syntax Description		
<code>no</code>	(Optional)	Negate a command or set its defaults
<code>server</code>		Configure database server
<code>protocol</code>		Configure database protocol
<code>ldap</code>		Use LDAP
<code>ip</code>		IP address of server
<i>ipaddr</i>		Enter IP address of server
<code>host</code>		Hostname of server
<i>hostname</i>		Enter hostname of server
<code>port</code>	(Optional)	Port
<i>portnum</i>	(Optional)	Enter port number
<code>vrf</code>	(Optional)	vrf context
<i>vrf-name</i>	(Optional)	VRF name
<i>vrf-known-name</i>	(Optional)	Known VRF name
<code>enable-ssl</code>	(Optional)	LDAP server enable ssl

Command Mode

- /exec/configure/fabric-db

server protocol radius group

[no] server protocol radius group <groupname>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
server	Configure database server
protocol	Configure database protocol
radius	Use RADIUS
group	AAA group
<i>groupname</i>	Enter AAA group name of servers

Command Mode

- /exec/configure/fabric-db

server protocol xmpp ip

```
[no] server protocol xmpp { ip <ipaddr> | host <hostname> } [ port <portnum> ] [ vrf { <vrf-name> | <vrf-known-name> } ]
```

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
server		Configure database server
protocol		Configure database protocol
xmpp		Use XMPP
ip		IP address of server
<i>ipaddr</i>		Enter IP address of server
host		Hostname of server
<i>hostname</i>		Enter hostname of server
port	(Optional)	Port
<i>portnum</i>	(Optional)	Enter port number
vrf	(Optional)	vrf context
<i>vrf-name</i>	(Optional)	VRF name
<i>vrf-known-name</i>	(Optional)	Known VRF name

Command Mode

- /exec/configure/fabric-db

service-policy

[no] service-policy [type qos] <inp-or-out> <pmap-name-qos> [no-stats]

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
service-policy	Configure service policy for an interface
type	(Optional) Specify the type of this policy
qos	(Optional) Qos policy
<i>inp-or-out</i>	
<i>pmap-name-qos</i>	Policy-map name __nil__ You must create a policy-map before using this command
no-stats	(Optional) Disable statistics for this policy

Command Mode

- /exec/configure/if-set-qos /exec/configure/if-remote-ethernet /exec/configure/if-remote-ethernet-switch

service-policy

[no] service-policy [type qos] <inp-or-out> <pmap-name-qos> [no-stats]

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
service-policy		Configure service policy for an interface
type	(Optional)	Specify the type of this policy
qos	(Optional)	Qos policy
<i>inp-or-out</i>		
<i>pmap-name-qos</i>	Policy-map name __nil__	You must create a policy-map before using this command
no-stats	(Optional)	Disable statistics for this policy

Command Mode

- /exec/configure/vlan

service-policy

[no] service-policy [type qos] <pmap-name-qos>

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
service-policy		Configure hierarchial policy-map
type	(Optional)	Specify the type of this policy
qos	(Optional)	Qos policy
<i>pmap-name-qos</i>		Policy-map name

Command Mode

- /exec/configure/policy-map/class

service-policy input

[no] service-policy input <policy_name>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
service-policy	Attach a policy to control-plane interface
input	Input the policy name
<i>policy_name</i>	Name of the policy

Command Mode

- /exec/configure/ctrl-plane

service-policy type network-qos

[no] service-policy type network-qos <pmap-name-nq>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
service-policy	Policy Map
type	Specify the type of this policy-map
network-qos	Network QoS policy
<i>pmap-name-nq</i>	Policy-map name

Command Mode

- /exec/configure/system/qos

service-policy type psp

```
[no] service-policy type psp <inp-or-out> { <pmap-name-plc> | { handle <ppf_id> } }
```

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
service-policy	Configure service policy for an interface
type	Specify the type of this policy
psp	PSP policy
<i>inp-or-out</i>	
<i>pmap-name-plc</i>	Policy-map name __nil__ You must create a policy-map before using this command
handle	Handle
<i>ppf_id</i>	PPF ID

Command Mode

- /exec/configure/if-set-qos

service-policy type qos

[no] service-policy type qos <inp-only> <pmap-name-qos>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
service-policy	Policy Map
type	Specify the type of this policy-map
qos	System-level QoS policy
<i>inp-only</i>	
<i>pmap-name-qos</i>	Policy-map name __nil__ You must create a policy-map before using this command

Command Mode

- /exec/configure/system/qos

service-policy type queuing

[no] service-policy type queuing <inp-or-out> <pmap-name-que> [no-stats]

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
service-policy		Configure service policy for an interface
type		Specify the type of this policy
queuing		Queuing policy
<i>inp-or-out</i>		
<i>pmap-name-que</i>		Policy-map name
no-stats	(Optional)	Disable statistics for this policy

Command Mode

- /exec/configure/if-set-que

service-policy type queuing

[no] service-policy type queuing <pmap-name-que>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
service-policy	Set the inner policy-map
type	Specify the type of this policy
queuing	Queuing policy
<i>pmap-name-que</i>	Policy-map name __nil__ You must create a policy-map before using this command

Command Mode

- /exec/configure/policy-map/type/queuing/class

service-policy type queuing

[no] service-policy type queuing <inp-or-out> <pmap-name-que>

Syntax Description

Syntax Description		
no		(Optional) Negate a command or set its defaults
service-policy	Policy Map	
type		Specify the type of this policy-map
queuing		DCE Queuing policy
<i>inp-or-out</i>		
<i>pmap-name-que</i>	Policy-map name	

Command Mode

- /exec/configure/system/qos

service dhcp

[no] service dhcp

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
service	Modify use of network based services
dhcp	Enable DHCP relay agent

Command Mode

- /exec/configure

service set

[no] service set <onep-service-set>

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
service	ONEP	service set
set	ONEP	service set
<i>onep-service-set</i>	service name	

Command Mode

- /exec/configure/onep

service tag

{ service tag <tag-id> } | { no service tag }

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	service	Configure ngoam service
	tag	Configure ngoam service tag
	<i>tag-id</i>	Configure ngoam service tag id

Command Mode

- /exec/configure/configngoamprofile

service unsupported-transceiver

[no] service unsupported-transceiver

Syntax Description

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

Syntax Description	no	(Optional) Negate a command or set its defaults
	session-limit	Set the max no of concurrent vsh sessions
	<i>i0</i>	Max concurrent vsh sessions

Command Mode

- /exec/configure/line

session domain-lookup

session domain-lookup | no session domain-lookup

Syntax Description

Syntax Description		
	session	Configure session preferences
	no	Negate a command or set its defaults
	domain-lookup	Session

Command Mode

- /exec

session key-required

[no] session key-required

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
session		One Platform session
key-required		Disable session key

Command Mode

- /exec/configure/onep

session max

session max <onep-maxsess>

Syntax Description

Syntax Description

session	One Platform session
---------	----------------------

max	Maximum number of sessions
-----	----------------------------

<i>onep-maxsess</i>	Number of sessions
---------------------	--------------------

Command Mode

- /exec/configure/onep

session max

[no] session max [<onep-maxsess>]

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
session		One Platform session
max		Maximum number of sessions
<i>onep-maxsess</i>	(Optional)	Number of sessions

Command Mode

- /exec/configure/onep

session protection

```
[no] session protection [ vrf { <vrf-name> | <vrf-known-name> } ] [ for <pfx-list> ] [ duration { <secs> |
infinite } ]
```

Syntax Description

Syntax Description

no	(Optional) Negate a command or set its defaults
session	Configure session parameters
protection	Configure session protection parameters
vrf	(Optional) VRF Routing/Forwarding instance information
<i>vrf-name</i>	(Optional) VPN Routing/Forwarding instance name
<i>vrf-known-name</i>	(Optional) Known VRF name
for	(Optional) Prefix list to specify LDP peers
<i>pfx-list</i>	(Optional) Prefix list for LDP peers
duration	(Optional) Period to sustain session protection after loss of link discovery
<i>secs</i>	(Optional) Holdup time in seconds
infinite	(Optional) Protect session forever after loss of link discovery

Command Mode

- /exec/configure/ldp

set-attached-bit

[no] set-attached-bit

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
set-attached-bit	Configure L1 L2 router to set/unset attached bit in its L1 LSP

Command Mode

- /exec/configure/router-isis/router-isis-vrf-common /exec/configure/router-isis/router-isis-af-ipv6

set-overload-bit

```
[no] set-overload-bit | [ no ] set-overload-bit { always | on-startup { <secs> | [ <seconds> ] wait-for bgp <as>
} } [ suppress { [ interlevel ] [ external ] } ]
```

Syntax Description

Syntax Description	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

Syntax Description

set	Set the parameter value
-----	-------------------------

<i>paramname</i>	Enter the name of the parameter
------------------	---------------------------------

<i>paramval</i>	Enter the parameter value
-----------------	---------------------------

Command Mode

- /exec/configure/param-inst

set

```
[no] set { { cos <cos-val> } | { eth-src-mac-addr <src-mac-addr> } | { eth-dest-mac-addr <dest-mac-addr> }
| { vlan <vlan-number> } | { ip-tos <ip-tos-value> <ip-tos-mask> } | { out-interface <iface-list> } | { dscp [
tunnel ] { <dscp-val> | <dscp-enum> } } | { precedence [ prec-tunnel ] { <prec-val> | <prec-enum> } } | {
discard-class <dis-class-val> } | { qos-group <qos-grp-val> } | { { { cos1 cos2 } | { dscp1 dscp2 } | { prec1
prec2 } | { dis-class1 dis-class2 } | { dscp3 mpls-exp-imposition } | { mpls-exp-topmost dscp4 } | {
mpls-exp-topmost1 mpls-exp-topmost2 } } } | { mpls experimental { { topmost <exp-value> } | { imposition
<exp-value-imp> } } } | action-strip-vlan | action-drop-pkt | divert-action | copy-action | action-decrement-ttl
| forward-normal | goto-pmap <pmap-table-handle> }
```

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
set	Set attribute
cos	IEEE 802.1Q class of service
cos1	IEEE 802.1Q class of service
cos2	IEEE 802.1Q class of service
<i>cos-val</i>	802.1Q Class of Service value
eth-dest-mac-addr	Action on Layer 2 destination MAC address
eth-src-mac-addr	Action on Layer 2 source MAC address
<i>src-mac-addr</i>	Layer 2 MAC Address
<i>dest-mac-addr</i>	Layer 2 MAC Address
vlan	Set the VLAN ID
<i>vlan-number</i>	VLAN NUMBER
ip-tos	Set the IPv4 TOS
<i>ip-tos-value</i>	IPv4 TOS Value
<i>ip-tos-mask</i>	IPV4 TOS Mask
out-interface	Output to a Specified Interface
<i>iface-list</i>	Physical Interface Name and Number or List
action-strip-vlan	Perform the action STRIP-VLAN-ID
action-drop-pkt	Perform the action Drop the Packet
divert-action	Divert the packets to Controller
copy-action	Copy the packets to Controller

<code>action-decrement-ttl</code>	Decrement TTL on the Packet
<code>forward-normal</code>	Forward the packets normally
<code>goto-pmap</code>	Goto pmap/table
<i>pmap-table-handle</i>	Pmap-table handle
<code>dscp</code>	DSCP in IP(v4) and IPv6 packets
<code>dscp1</code>	DSCP in IP(v4) and IPv6 packets
<code>dscp2</code>	DSCP in IP(v4) and IPv6 packets
<code>tunnel</code>	(Optional) Set DSCP in tunnel encapsulation
<i>dscp-val</i>	DSCP value
<i>dscp-enum</i>	
<code>precedence</code>	Precedence in IP(v4) and IPv6 packets
<code>prec1</code>	Precedence in IP(v4) and IPv6 packets
<code>prec2</code>	Precedence in IP(v4) and IPv6 packets
<code>prec-tunnel</code>	(Optional) Set Precedence in tunnel encapsulation
<i>prec-val</i>	IP Precedence value
<i>prec-enum</i>	
<code>discard-class</code>	Discard class
<code>dis-class1</code>	Discard class
<code>dis-class2</code>	Discard class
<i>dis-class-val</i>	Discard class value
<code>qos-group</code>	Qos-group
<i>qos-grp-val</i>	Qos-group value
<code>mpls</code>	Set MPLS label
<code>experimental</code>	Set MPLS experimental label
<code>topmost</code>	Set MPLS topmost label
<code>imposition</code>	Push the label and set new one on top
<i>exp-value</i>	MPLS value
<i>exp-value-imp</i>	MPLS value
<code>dscp3</code>	DSCP in IP(v4) and IPv6 packets

mpls-exp-imposition mpls-exp-imposition

mpls-exp-topmost mpls-exp-topmost

dscp4 DSCP in IP(v4) and IPv6 packets

mpls-exp-topmost1 mpls-exp-topmost

mpls-exp-topmost2 mpls-exp-topmost

Command Mode

- /exec/configure/policy-map/type/plc/class

set

```
[no] set { { cos [ inner ] <cos-val> } | { dscp [ tunnel ] { <dscp-val> | <opt_set_dscp> } } | { precedence [
tunnel1 ] { <prec-val> | <opt_set_prec> } } }
```

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
set	Set attribute
cos	IEEE 802.1Q class of service
inner	(Optional) Set inner 802.1Q class of service in QinQ environment
<i>cos-val</i>	802.1Q Class of Service value
dscp	DSCP in IP(v4) and IPv6 packets
tunnel	(Optional) Set DSCP in tunnel encapsulation
<i>dscp-val</i>	DSCP value
<i>opt_set_dscp</i>	
precedence	Precedence in IP(v4) and IPv6 packets
tunnel1	(Optional) Set DSCP in tunnel encapsulation
<i>prec-val</i>	IP Precedence value
<i>opt_set_prec</i>	

Command Mode

- /exec/configure/pmap/class

set

```
[no] set { { dlb-disable } | { dscp [ tunnel ] { <dscp-val> | <dscp-enum> } } | { cos <cos-val> } | { qos-group <qos-grp-val> } }
```

Syntax Description

Syntax Description

no	(Optional) Negate a command or set its defaults
set	Set attribute
dlb-disable	Disable Dynamic Load Balancing
dscp	DSCP in IP(v4) and IPv6 packets
tunnel	(Optional) Set DSCP in tunnel encapsulation
<i>dscp-val</i>	DSCP value
<i>dscp-enum</i>	
cos	IEEE 802.1Q Class of Service
<i>cos-val</i>	802.1Q Class of Service value
qos-group	Qos-group
<i>qos-grp-val</i>	Qos-group value

Command Mode

- /exec/configure/policy-map/class

set

```
[no] set { { precedence [ prec-tunnel ] { <prec-val> | <prec-enum> } } | { discard-class <dis-class-val> } | {
{ { cos1 cos2 } | { dscp1 dscp2 } | { prec1 prec2 } | { dis-class1 dis-class2 } | { dscp3 mpls-exp-imposition }
| { mpls-exp-topmost dscp4 } | { mpls-exp-topmost1 mpls-exp-topmost2 } } table <table-map-name> } | {
mpls experimental { { topmost <exp-value> } | { imposition <exp-value-imp> } } } }
```

Syntax Description

Syntax Description

no	(Optional) Negate a command or set its defaults
set	Set attribute
cos1	IEEE 802.1Q class of service
cos2	IEEE 802.1Q class of service
dscp1	DSCP in IP(v4) and IPv6 packets
dscp2	DSCP in IP(v4) and IPv6 packets
precedence	Precedence in IP(v4) and IPv6 packets
prec1	Precedence in IP(v4) and IPv6 packets
prec2	Precedence in IP(v4) and IPv6 packets
prec-tunnel	(Optional) Set Precedence in tunnel encapsulation
<i>prec-val</i>	IP Precedence value
<i>prec-enum</i>	
discard-class	Discard class
dis-class1	Discard class
dis-class2	Discard class
<i>dis-class-val</i>	Discard class value
table	Table defining mapping from input to output
<i>table-map-name</i>	Table-map name
mpls	Set MPLS label
experimental	Set MPLS experimental label
topmost	Set MPLS topmost label
imposition	Push the label and set new one on top
<i>exp-value</i>	MPLS value

<i>exp-value-imp</i>	MPLS value
dscp3	DSCP in IP(v4) and IPv6 packets
mpls-exp-imposition	mpls-exp-imposition
mpls-exp-topmost	mpls-exp-topmost
dscp4	DSCP in IP(v4) and IPv6 packets
mpls-exp-topmost1	mpls-exp-topmost
mpls-exp-topmost2	mpls-exp-topmost

Command Mode

- /exec/configure/policy-map/class

set

[no] set { load-sharing per-packet }

Syntax Description

Syntax Description	
set	Set attribute
load-sharing	Load sharing across ECMP by set out-of-order bit
per-packet	per MiM packet
no	(Optional) Negate a command or set its defaults

Command Mode

- /exec/configure/policy-map/class

set as-path prepend last-as tag

```
{ set as-path { prepend { last-as <lastas> | <as> + } | tag } } | { no set as-path { prepend [ last-as [ <lastas> ]
| <as> + ] | tag } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
set		Set values in destination routing protocol
as-path		Prepend string for a BGP AS-path attribute
prepend		Prepend to the AS-Path
last-as		Prepend last AS to the as-path
<i>lastas</i>		number of last-AS prepends
<i>as</i>		AS number
tag		Set the tag as an AS-path attribute
<i>as</i>		(Optional)

Command Mode

- /exec/configure/route-map

set comm-list delete

```
{ { set comm-list <name> delete } | { no set comm-list } }
```

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	set	Set values in destination routing protocol
	comm-list	set BGP community list (for deletion)
	<i>name</i>	Community list name
	delete	Delete matching communities

Command Mode

- /exec/configure/route-map

set community none additive internet local-AS

```
{ set community { none | { additive | internet | local-AS | no-advertise | no-export | <hex_num> | <number>
| <community> } + } } | { no set community [ { none | { additive | internet | local-AS | no-advertise | no-export
| <hex_num> | <number> | <community> } + } ] }
```

Syntax Description

Syntax Description

<i>no</i>	Negate a command or set its defaults
<i>set</i>	Set values in destination routing protocol
<i>community</i>	Set BGP community attribute
<i>additive</i>	Add to existing community
<i>internet</i>	Internet (well-known community)
<i>local-AS</i>	Do not send outside local AS (well-known community)
<i>no-advertise</i>	Do not advertise to any peer (well-known community)
<i>no-export</i>	Do not export to next AS (well-known community)
<i>none</i>	No community attribute
<i>number</i>	Community number
<i>hex_num</i>	Community number in hex
<i>community</i>	Community number aa:nn format
<i>additive</i>	(Optional) internet

Command Mode

- /exec/configure/route-map

set cos

[no] set cos <cos-val>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
set	Set attribute
cos	IEEE 802.1Q Class of Service
<i>cos-val</i>	802.1Q Class of Service value

Command Mode

- /exec/configure/policy-map/type/queuing/class

set cos

[no] set cos <cos-val>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
set	Set attribute
cos	IEEE 802.1Q class of service
<i>cos-val</i>	802.1Q Class of Service value

Command Mode

- /exec/configure/policy-map/type/uf/class

set dampening

```
{ set dampening <halflife> <reuse> <supress> <duration> } | { no set dampening [ <halflife> <reuse> <supress> <duration> ] }
```

Syntax Description

Syntax Description		
<i>no</i>		Negate a command or set its defaults
<i>set</i>		Set values in destination routing protocol
<i>dampening</i>		Set BGP route flap dampening parameters
<i>halflife</i>		half-life time for the penalty
<i>reuse</i>		penalty to start reusing a route
<i>supress</i>		penalty to start suppressing a route
<i>duration</i>		Maximum duration to suppress a stable route

Command Mode

- /exec/configure/route-map

set distance

```
{ set distance <external-dist> [ <internal-dist> [ <local-dist> ] ] } | { no set distance }
```

Syntax Description

Syntax Description	no	Description
	no	Negate a command or set its defaults
	set	Set values in destination routing protocol
	distance	Set the Administrative distance of route
	<i>external-dist</i>	Administrative distance for IGP or EBGp routes
	<i>internal-dist</i>	(Optional) Administrative distance for internal routes
	<i>local-dist</i>	(Optional) Administrative distance for local routes

Command Mode

- /exec/configure/route-map

set extcomm-list delete

```
{ { set extcomm-list <name> delete } | { no set extcomm-list [ <name> delete ] } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
set		Set values in destination routing protocol
extcomm-list	set BGP extcommunity list (for deletion)	
<i>name</i>		Extended Community list name
delete		Delete matching extcommunities

Command Mode

- /exec/configure/route-map

set extcommunity 4byteas-generic transitive additive

```
{ set extcommunity 4byteas-generic { { transitive <ext-comm-gen-trans> | non-transitive
<ext-comm-gen-nontrans> } + [ additive ] | additive | none } } | { no set extcommunity 4byteas-generic [ {
transitive <ext-comm-gen-trans> | non-transitive <ext-comm-gen-nontrans> } + [ additive ] | additive | none
] }
```

Syntax Description

Syntax Description

no	Negate a command or set its defaults
set	Set values in destination routing protocol
extcommunity	Set BGP extcommunity attribute
4byteas-generic	Generic extended community
additive	(Optional) Add to existing generic extcommunity
none	No extcommunity generic attribute
transitive	Transitive extended community
non-transitive	Non-Transitive extended community
<i>ext-comm-gen-trans</i>	Extcommunity number aa4:nn format
<i>ext-comm-gen-nontrans</i>	Extcommunity number aa4:nn format
<i>ext-comm-gen-trans</i>	(Optional) <ext-comm-gen-nontrans>

Command Mode

- /exec/configure/route-map

set extcommunity additive

```
{ set extcommunity { additive | none } } | { no set extcommunity [ additive | none ] }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
set		Set values in destination routing protocol
extcommunity		Set BGP extcommunity attribute
additive		Add to existing generic extcommunity
none		No extcommunity attribute

Command Mode

- /exec/configure/route-map

set extcommunity cost

```
{ set extcommunity cost { [ igp | pre-bestpath ] <comm-id> <cost-value> } + } | { no set extcommunity cost
[ [ igp | pre-bestpath ] <comm-id> <cost-value> ] + }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
set		Set values in destination routing protocol
extcommunity		Set BGP extcommunity attribute
cost		Cost
igp		(Optional) Compare following IGP cost comparison
pre-bestpath		(Optional) Compare before all other steps in bestpath calculation
<i>comm-id</i>		Community ID
<i>cost-value</i>		Cost Community value
<i>comm-id</i>		(Optional) <cost-value>

Command Mode

- /exec/configure/route-map

set extcommunity rt additive

```
{ set extcommunity rt { { <ext-comm-rt-aa2nn4> | <ext-comm-rt-aa4nn2> } + [ additive ] | additive } } | {
no set extcommunity rt [ { <ext-comm-rt-aa2nn4> | <ext-comm-rt-aa4nn2> } + [ additive ] | additive ] }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
set		Set values in destination routing protocol
extcommunity		Set BGP extcommunity attribute
rt		Route-Target
additive		(Optional) Add to existing rt extcommunity
<i>ext-comm-rt-aa2nn4</i>		Extcommunity number
<i>ext-comm-rt-aa4nn2</i>		Extcommunity number
<i>ext-comm-rt-aa2nn4</i>	(Optional)	<ext-comm-rt-aa4nn2>

Command Mode

- /exec/configure/route-map

set extension-key

[no] set extension-key <key>

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
set		Set the extension key manually
extension-key		Set the extension key manually
key		Extension key

Command Mode

- /exec/configure/vmt-conn

set forwarding-address

[no] set forwarding-address

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
set	Set values in destination routing protocol
forwarding-address	Set the forwarding address

Command Mode

- /exec/configure/route-map

set inner ipv4

```
set { inner | outer } ipv4 [ { l3-type <l3_type> | pyld-len <pyld_len> | v6-vld <v6_vld> | version <ver> |
header-len <hlen> | dscp <dscp_val> | ecn <ecn_val> | packet-len <pkt_len> | more-frags <mf> | fragment-off
<fragoff> | ttl <ttl_val> | next-protocol <nproto> | checksum <csum> | src_ip <src_ip> | dst_ip <dst_ip> } ] +
```

Syntax Description

Syntax Description

set	Setup Trigger
inner	Mask and Match By Inner Packet Fields
outer	Mask and Match By Outer Packet Fields
ipv4	IPv4 Fields
l3-type	(Optional) L3 Packet Type
<i>l3_type</i>	(Optional) L3 Packet Type
pyld-len	(Optional) Payload Length
<i>pyld_len</i>	(Optional) Payload Length
v6-vld	(Optional) IPv6 Valid Information
<i>v6_vld</i>	(Optional) IPv6 Valid Information
version	(Optional) Version
<i>ver</i>	(Optional) Version
header-len	(Optional) Header Length
<i>hlen</i>	(Optional) Header Length
dscp	(Optional) Diff. Serv. Code Point
<i>dscp_val</i>	(Optional) Diff. Serv. Code Point
ecn	(Optional) Explicit Congestion Ntn
<i>ecn_val</i>	(Optional) Explicit Congestion Ntn
packet-len	(Optional) Packet Total Length
<i>pkt_len</i>	(Optional) Packet Total Length
more-frags	(Optional) More Fragments Available
<i>mf</i>	(Optional) More Fragments Available
fragment-off	(Optional) Fragments Offset
<i>fragoff</i>	(Optional) Fragments Offset

<i>ttl</i>	(Optional) Time to Live
<i>ttl_val</i>	(Optional) Time to Live
<i>next-protocol</i>	(Optional) Next(L4) Protocol
<i>nproto</i>	(Optional) Next(L4) Protocol
<i>checksum</i>	(Optional) Checksum
<i>csum</i>	(Optional) Checksum
<i>src_ip</i>	(Optional) Source IP Address
<i>sip</i>	(Optional) Source IP Address
<i>dst_ip</i>	(Optional) Destination IP Address
<i>dip</i>	(Optional) Destination IP Address

Command Mode

- /exec/elanms/sel6

set inner ipv4

```
set inner ipv4 [ { l3-type <l3_type> | pyld-len <pyld_len> | v6-vld <v6_vld> | version <ver> | header-len
<hlen> | dscp <dscp_val> | ecn <ecn_val> | packet-len <pkt_len> | more-frags <mf> | fragment-off <fragoff>
| ttl <ttl_val> | next-protocol <nproto> | checksum <csum> | src_ip <src_ip> | dst_ip <dst_ip> } ] +
```

Syntax Description

Syntax Description

set	Setup Trigger
inner	Mask and Match By Inner Packet Fields
ipv4	IPv4 Fields
l3-type	(Optional) L3 Packet Type
<i>l3_type</i>	(Optional) L3 Packet Type
pyld-len	(Optional) Payload Length
<i>pyld_len</i>	(Optional) Payload Length
v6-vld	(Optional) IPv6 Valid Information
<i>v6_vld</i>	(Optional) IPv6 Valid Information
version	(Optional) Version
<i>ver</i>	(Optional) Version
header-len	(Optional) Header Length
<i>hlen</i>	(Optional) Header Length
dscp	(Optional) Diff. Serv. Code Point
<i>dscp_val</i>	(Optional) Diff. Serv. Code Point
ecn	(Optional) Explicit Congestion Ntn
<i>ecn_val</i>	(Optional) Explicit Congestion Ntn
packet-len	(Optional) Packet Total Length
<i>pkt_len</i>	(Optional) Packet Total Length
more-frags	(Optional) More Fragments Available
<i>mf</i>	(Optional) More Fragments Available
fragment-off	(Optional) Fragments Offset
<i>fragoff</i>	(Optional) Fragments Offset
ttl	(Optional) Time to Live

<i>ttl_val</i>	(Optional) Time to Live
<i>next-protocol</i>	(Optional) Next(L4) Protocol
<i>nproto</i>	(Optional) Next(L4) Protocol
<i>checksum</i>	(Optional) Checksum
<i>csum</i>	(Optional) Checksum
<i>src_ip</i>	(Optional) Source IP Address
<i>sip</i>	(Optional) Source IP Address
<i>dst_ip</i>	(Optional) Destination IP Address
<i>dip</i>	(Optional) Destination IP Address

Command Mode

- /exec/elanms/sel4

set inner l2

```
set { inner | outer } l2 [ { snap_vld <snap_vld> | cntag_vld <cntag_vld> | qtag_vld <qtag_vld> | vlan <vlan_id>
| cos <cos_val> | cfi <cfi_vld> | vntag_vld <vntag_vld> | vntag_svif <vntag_svif> | vntag_dvif <vntag_dvif>
| vntag_looped <vntag_loop> | vntag_pointer <vntag_p> | src_mac <smac> | dst_mac <dmac> } ] +
```

Syntax Description

Syntax Description

set	Setup Trigger
inner	Mask and Match By Inner Packet Fields
outer	Mask and Match By Outer Packet Fields
l2	All Layer 2 Fields
snap_vld	(Optional) SNAP Header Information Valid
<i>snap_vld</i>	(Optional) SNAP Header Information Valid
cntag_vld	(Optional) CNTag Information Valid
<i>cntag_vld</i>	(Optional) CNTag Information Valid
qtag_vld	(Optional) VLAN Tag Information Valid
<i>qtag_vld</i>	(Optional) VLAN Tag Information Valid
vlan	(Optional) VLAN Id (Present only in case of FEX)
<i>vlan_id</i>	(Optional) VLAN Id
cos	(Optional) Class of Service
<i>cos_val</i>	(Optional) Class of Service Type
cfi	(Optional) CFI Setting
<i>cfi_vld</i>	(Optional) CFI Setting Valid
vntag_vld	(Optional) VNTAG Information Valid
<i>vntag_vld</i>	(Optional) VNTAG Information Valid
vntag_svif	(Optional) VNTAG Source vif
<i>vntag_svif</i>	(Optional) VNTAG Source vif
vntag_dvif	(Optional) VNTAG Destination vif
<i>vntag_dvif</i>	(Optional) VNTAG Destination vif
vntag_looped	(Optional) VNTAG Header Looped Valid
<i>vntag_loop</i>	(Optional) VNTAG Header Looped Valid

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

Syntax Description

set	Setup Trigger
inner	Mask and Match By Inner Packet Fields
l2	All Layer 2 Fields
snap_vld	(Optional) SNAP Header Information Valid
<i>snap_vld</i>	(Optional) SNAP Header Information Valid
cntag_vld	(Optional) CNTag Information Valid
<i>cntag_vld</i>	(Optional) CNTag Information Valid
qtag_vld	(Optional) VLAN Tag Information Valid
<i>qtag_vld</i>	(Optional) VLAN Tag Information Valid
vlan	(Optional) VLAN Id (Present only in case of FEX)
<i>vlan_id</i>	(Optional) VLAN Id
cos	(Optional) Class of Service
<i>cos_val</i>	(Optional) Class of Service Type
cfi	(Optional) CFI Setting
<i>cfi_vld</i>	(Optional) CFI Setting Valid
vntag_vld	(Optional) VNTAG Information Valid
<i>vntag_vld</i>	(Optional) VNTAG Information Valid
vntag_svif	(Optional) VNTAG Source vif
<i>vntag_svif</i>	(Optional) VNTAG Source vif
vntag_dvif	(Optional) VNTAG Destination vif
<i>vntag_dvif</i>	(Optional) VNTAG Destination vif
vntag_looped	(Optional) VNTAG Header Looped Valid
<i>vntag_loop</i>	(Optional) VNTAG Header Looped Valid
vntag_pointer	(Optional) VNTAG Header Pointer Valid

<i>vntag_p</i>	(Optional) VNTAG Header Pointer Valid
<i>src_mac</i>	(Optional) Source MAC Address
<i>smac</i>	(Optional) Source MAC Address Value
<i>dst_mac</i>	(Optional) Destination MAC Address
<i>dmac</i>	(Optional) Destination MAC Address Value

Command Mode

- /exec/elamns/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

Syntax Description

set	Setup Trigger
inner	Mask and Match By Inner Packet Fields
outer	Mask and Match By Outer Packet Fields
l2	All Layer 2 Fields
hg2	High Gig2 Fields
hg2_vid	(Optional) High Gig2 VLAN Tag
<i>hg2_vlan</i>	(Optional) High Gig2 VLAN Tag Information
hg2_ppd_type	(Optional) High Gig2 Packet Processing Descriptor
<i>hg2_ppd_type</i>	(Optional) High Gig2 Packet Processing Descriptor
hg2_mirror	(Optional) High Gig2 Packet Mirror Information
<i>hg2_mirror</i>	(Optional) High Gig2 Packet Mirror Information
hg2_opcode	(Optional) High Gig2 Packet Type
<i>hg2_opcode</i>	(Optional) High Gig2 Packet Type
hg2_dstpid	(Optional) High Gig2 Destination Port ID
<i>hg2_dpid</i>	(Optional) High Gig2 Destination Port ID
hg2_dstmod	(Optional) High Gig2 Destination Module ID
<i>hg2_dmod</i>	(Optional) High Gig2 Destination Module ID
hg2_srcpid	(Optional) High Gig2 Source Port ID
<i>hg2_spid</i>	(Optional) High Gig2 Source Port ID
hg2_srcmod	(Optional) High Gig2 Souce Module ID
<i>hg2_smod</i>	(Optional) High Gig2 Souce Module ID
hg2_l3vld	(Optional) High Gig2 Packet L3 Switched
<i>hg2_l3_vld</i>	(Optional) High Gig2 Packet L3 Switched

<i>hg2_tc</i>	(Optional) High Gig2 Packet Traffic Class
<i>hg2_tc</i>	(Optional) High Gig2 Packet Traffic Class
<i>hg2_dp</i>	(Optional) High Gig2 Drop Precedence
<i>hg2_dp</i>	(Optional) High Gig2 Drop Precedence
<i>hg2_mcast</i>	(Optional) High Gig2 MultiCast Forwarding Information
<i>hg2_mcast_vld</i>	(Optional) High Gig2 Multicast Forwarding Information
<i>hg2-vld</i>	(Optional) High Gig2 Valid Information
<i>hg2_vld</i>	(Optional) High Gig2 Valid Information
<i>hg2-cos</i>	(Optional) High Gig2 CoS Information
<i>hg2_cos</i>	(Optional) High Gig2 CoS Information

Command Mode

- /exec/elanms/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

Syntax Description

set	Setup Trigger
inner	Mask and Match By Inner Packet Fields
l2	All Layer 2 Fields
hg2	High Gig2 Fields
hg2_vid	(Optional) High Gig2 VLAN Tag
<i>hg2_vlan</i>	(Optional) High Gig2 VLAN Tag Information
hg2_ppd_type	(Optional) High Gig2 Packet Processing Descriptor
<i>hg2_ppd_type</i>	(Optional) High Gig2 Packet Processing Descriptor
hg2_mirror	(Optional) High Gig2 Packet Mirror Information
<i>hg2_mirror</i>	(Optional) High Gig2 Packet Mirror Information
hg2_opcode	(Optional) High Gig2 Packet Type
<i>hg2_opcode</i>	(Optional) High Gig2 Packet Type
hg2_dstpid	(Optional) High Gig2 Destination Port ID
<i>hg2_dpid</i>	(Optional) High Gig2 Destination Port ID
hg2_dstmod	(Optional) High Gig2 Destination Module ID
<i>hg2_dmod</i>	(Optional) High Gig2 Destination Module ID
hg2_srcpid	(Optional) High Gig2 Source Port ID
<i>hg2_spid</i>	(Optional) High Gig2 Source Port ID
hg2_srcmod	(Optional) High Gig2 Souce Module ID
<i>hg2_smod</i>	(Optional) High Gig2 Souce Module ID
hg2_l3vld	(Optional) High Gig2 Packet L3 Switched
<i>hg2_l3_vld</i>	(Optional) High Gig2 Packet L3 Switched
hg2_tc	(Optional) High Gig2 Packet Traffic Class

<i>hg2_tc</i>	(Optional) High Gig2 Packet Traffic Class
<i>hg2_dp</i>	(Optional) High Gig2 Drop Precedence
<i>hg2_dp</i>	(Optional) High Gig2 Drop Precedence
<i>hg2_mcast</i>	(Optional) High Gig2 MultiCast Forwarding Information
<i>hg2_mcast_vld</i>	(Optional) High Gig2 Multicast Forwarding Information
<i>hg2-vld</i>	(Optional) High Gig2 Valid Information
<i>hg2_vld</i>	(Optional) High Gig2 Valid Information
<i>hg2-cos</i>	(Optional) High Gig2 CoS Information
<i>hg2_cos</i>	(Optional) High Gig2 CoS Information

Command Mode

- /exec/elanms/sel4

set inner l4

```
set inner l4 [ { src-port <sport> | dst-port <dport> | packet-len <pkt_len> | checksum <csum> | flags <flag_val>
} ] +
```

Syntax Description

Syntax Description		
set	Setup Trigger	
inner	Mask and Match By Inner Packet Fields	
l4	L4 Fields	
src-port	(Optional) Source Port Information	
<i>sport</i>	(Optional) Source Port	
dst-port	(Optional) Destination Port Information	
<i>dport</i>	(Optional) Destination Port	
packet-len	(Optional) Packet Length	
<i>pkt_len</i>	(Optional) Packet Length	
checksum	(Optional) Checksum	
<i>csum</i>	(Optional) Checksum	
flags	(Optional) L4 Flags	
<i>flag_val</i>	(Optional) L4 Flags	

Command Mode

- /exec/elanms/sel4

set inner l4

```
set { inner | outer } l4 [ { src-port <sport> | dst-port <dport> | packet-len <pkt_len> | checksum <csum> | flags
<flag_val> } ] +
```

Syntax Description

Syntax Description		
set	Setup Trigger	
inner	Mask and Match By Inner Packet Fields	
outer	Mask and Match By Outer Packet Fields	
l4	L4 Fields	
src-port	(Optional) Source Port Information	
<i>sport</i>	(Optional) Source Port	
dst-port	(Optional) Destination Port Information	
<i>dport</i>	(Optional) Destination Port	
packet-len	(Optional) Packet Length	
<i>pkt_len</i>	(Optional) Packet Length	
checksum	(Optional) Checksum	
<i>csum</i>	(Optional) Checksum	
flags	(Optional) L4 Flags	
<i>flag_val</i>	(Optional) L4 Flags	

Command Mode

- /exec/elanms/sel7

set interface

[no] set interface <iface>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
set	Set values in destination routing protocol
interface	Output interface
<i>iface</i>	Interface name

Command Mode

- /exec/configure/route-map

set interval find-new-host

[no] set interval find-new-host <val>

Syntax Description

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 pending-task-polling

[no] set interval pending-task-polling <val>

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
set		Set vmtracker options
interval		Set the polling interval
pending-task-polling		Define pending-task-polling interval
val		The pending task polling interval value in seconds

Command Mode

- /exec/configure/vmt-conn

set interval sync-full-info

[no] set interval sync-full-info <val>

Syntax Description

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

Syntax Description	
no	(Optional) Negate a command or set its defaults
set	Set values in destination routing protocol
ip	Configure IP features
address	Specify IP address
prefix-list	IP prefix-list
<i>name</i>	Name of prefix list

Command Mode

- /exec/configure/route-map

set ip default next-hop

[no] set ip default next-hop [recursive] { load-share | <addr1> + [load-share] }

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
set	Set values in destination routing protocol
ip	Configure IP features
recursive	(Optional) Use recursive lookup
default	Set default next-hop
next-hop	Next hop address
<i>addr1</i>	IP address of next hop
load-share	Enables load sharing

Command Mode

- /exec/configure/route-map

set ip default next-hop verify-availability

[no] set ip default next-hop verify-availability { <addr> [track <object_id>] } [load-share]

Syntax Description

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
<i>addr</i>		IP address of next hop
track	(Optional)	The tracking method is track
<i>object_id</i>	(Optional)	Object number that the tracking subsystem is tracking
load-share	(Optional)	Enables load sharing

Command Mode

- /exec/configure/route-map

set ip next-hop

[no] set ip next-hop [recursive] { load-share | <addr1> + [load-share] }

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
set	Set values in destination routing protocol
ip	Configure IP features
recursive	(Optional) Use recursive lookup
next-hop	Next hop address
<i>addr1</i>	IP address of next hop
load-share	Enables load sharing

Command Mode

- /exec/configure/route-map

set ip next-hop peer-address

[no] set ip next-hop peer-address

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
set	Set values in destination routing protocol	
ip	Configure IP features	
next-hop	Next hop address	
peer-address	Use peer address (for BGP only)	

Command Mode

- /exec/configure/route-map

set ip next-hop redist-unchanged

[no] set ip next-hop redist-unchanged

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
set	Set values in destination routing protocol	
ip	Configure IP features	
next-hop	Next hop address	
redist-unchanged	Use unchanged address during redistribution (for BGP session only)	

Command Mode

- /exec/configure/route-map

set ip next-hop unchanged

[no] set ip next-hop unchanged

Syntax Description

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

Syntax Description		
no	(Optional) Negate a command or set its defaults	
set	Set values in destination routing protocol	
ip	Configure IP features	
next-hop	Next hop address	
verify-availability	Verify the reachability of the tracked object	
<i>addr</i>	IP address of next hop	
track	(Optional) The tracking method is track	
<i>object_id</i>	(Optional) Object number that the tracking subsystem is tracking	
load-share	(Optional) Enables load sharing	

Command Mode

- /exec/configure/route-map

set ip precedence

```
{ set ip precedence { <value> | <name> } } | { no set ip precedence [ <value> | <name> ] }
```

Syntax Description

Syntax Description		
<code>no</code>		Negate a command or set its defaults
<code>set</code>		Set values in destination routing protocol
<code>ip</code>		Configure IP features
<code>precedence</code>		Set precedence field
<i>value</i>		Precedence value
<i>name</i>		Precedence value

Command Mode

- /exec/configure/route-map

set ipv6 address prefix-list

[no] set ipv6 address prefix-list <name>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
set	Set values in destination routing protocol
ipv6	Configure IPv6 features
address	Specify IP address
prefix-list	IPv6 prefix-list
<i>name</i>	Name of prefix list

Command Mode

- /exec/configure/route-map

set ipv6 default next-hop

```
[no] set ipv6 default next-hop [ recursive ] { load-share | <addr1> + [ load-share ] }
```

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
set		Set values in destination routing protocol
ipv6		Configure IPv6 features
recursive	(Optional)	Use recursive lookup
default		Set default next-hop
next-hop		Next hop address
load-share		Enables load sharing
		<i>addr1</i>

Command Mode

- /exec/configure/route-map

set ipv6 default next-hop verify-availability

[no] set ipv6 default next-hop verify-availability { <addr> [track <object_id>] } [load-share]

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
set	Set values in destination routing protocol	
ipv6	Configure IPv6 features	
next-hop	Next hop address	
default	Set default next-hop	
verify-availability	Verify the reachability of the tracked object	
track	(Optional) The tracking method is track	
<i>object_id</i>	(Optional) Object number that the tracking subsystem is tracking	
load-share	(Optional) Enables load sharing	

Command Mode

- /exec/configure/route-map

set ipv6 next-hop

[no] set ipv6 next-hop { load-share | <addr> + [load-share] }

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
set	Set values in destination routing protocol	
ipv6	Configure IPv6 features	
next-hop	Next hop ipv6 address	
load-share	Enables load sharing	
	<i>addr</i>	

Command Mode

- /exec/configure/route-map

set ipv6 next-hop peer-address

[no] set ipv6 next-hop peer-address

Syntax Description

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

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

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

Syntax Description		
no	(Optional)	Negate a command or set its defaults
set		Set values in destination routing protocol
ipv6		Configure IPv6 features
next-hop		Next hop address
verify-availability		Verify the reachability of the tracked object
track	(Optional)	The tracking method is track
<i>object_id</i>	(Optional)	Object number that the tracking subsystem is tracking
load-share	(Optional)	Enables load sharing

Command Mode

- /exec/configure/route-map

set ipv6 precedence

```
{ set ipv6 precedence { <value> | <name> } } | { no set ipv6 precedence [ <value> | <name> ] }
```

Syntax Description

Syntax Description		
<code>no</code>		Negate a command or set its defaults
<code>set</code>		Set values in destination routing protocol
<code>ipv6</code>		Configure IPv6 features
<code>precedence</code>		Set precedence field
<code>value</code>		Precedence value
<code>name</code>		Precedence value

Command Mode

- /exec/configure/route-map

set label-index

{ { set label-index <value> } | { no set label-index [<value>] } }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
set		Set values in destination routing protocol
label-index		Set Segment Routing (SR) label index of route
<i>value</i>		Segment Routing (SR) label index

Command Mode

- /exec/configure/route-map

set level level-1 level-1-2 level-2

{ set level { level-1 | level-1-2 | level-2 } } | { no set level [level-1 | level-1-2 | level-2] }

Syntax Description

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

Syntax Description		
no		Negate a command or set its defaults
set		Set values in destination routing protocol
local-preference		BGP local preference path attribute
<i>pref</i>		Preference value

Command Mode

- /exec/configure/route-map

set metric-type external internal type-1 type-2

{ set metric-type { external | internal | type-1 | type-2 } } | { no set metric-type [external | internal | type-1 | type-2] }

Syntax Description

Syntax Description

no	Negate a command or set its defaults
set	Set values in destination routing protocol
metric-type	Type of metric for destination routing protocol
external	IS-IS external metric
internal	Use IGP metric as the MED for BGP
type-1	OSPF external type 1 metric
type-2	OSPF external type 2 metric

Command Mode

- /exec/configure/route-map

set metric

```
{ set metric <metric0> [ <metric1> <metric2> <metric3> <metric4> ] } | { no set metric [ <metric0> [ <metric1>
<metric2> <metric3> <metric4> ] ] }
```

Syntax Description

Syntax Description	Description
no	Negate a command or set its defaults
set	Set values in destination routing protocol
metric	Set metric for destination routing protocol
<i>metric0</i>	[+/-] Metric value or Bandwidth in Kbits per second
<i>metric1</i>	(Optional) IGRP delay metric
<i>metric2</i>	(Optional) IGRP reliability metric where 255 is 100% reliable
<i>metric3</i>	(Optional) IGRP Effective bandwidth metric (Loading) 255 is 100%
<i>metric4</i>	(Optional) IGRP MTU of the path

Command Mode

- /exec/configure/route-map

set mpls-exp-topmost cos table exp-cos-map

[no] set mpls-exp-topmost cos table exp-cos-map

Syntax Description

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

Syntax Description	
no	(Optional) Negate a command or set its defaults
set	Set values in destination routing protocol
nssa-only	OSPF NSSA Areas

Command Mode

- /exec/configure/route-map

set origin egp

{ set origin egp <as> } | { no set origin egp <as> }

Syntax Description

Syntax Description

no	Negate a command or set its defaults
set	Set values in destination routing protocol
origin	BGP origin code
egp	remote EGP
as	AS number

Command Mode

- /exec/configure/route-map

set origin egp igp incomplete

```
{ set origin { egp | igp | incomplete } } | { no set origin [ { egp | igp | incomplete } ] }
```

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	set	Set values in destination routing protocol
	origin	BGP origin code
	egp	remote EGP
	igp	local IGP
	incomplete	unknown heritage

Command Mode

- /exec/configure/route-map

set outer ipv4

```
set outer ipv4 [ { l3-type <l3_type> | pyld-len <pyld_len> | v6-vld <v6_vld> | version <ver> | header-len <hlen> | dscp <dscp_val> | ecn <ecn_val> | packet-len <pkt_len> | more-frags <mf> | fragment-off <fragoff> | ttl <ttl_val> | next-protocol <nproto> | checksum <csum> | src_ip <sip> | dst_ip <dip> } ] +
```

Syntax Description

Syntax Description

set	Setup Trigger
outer	Mask and Match By Outer Packet Fields
ipv4	IPv4 Fields
l3-type	(Optional) L3 Packet Type
<i>l3_type</i>	(Optional) L3 Packet Type
pyld-len	(Optional) Payload Length
<i>pyld_len</i>	(Optional) Payload Length
v6-vld	(Optional) IPv6 Valid Information
<i>v6_vld</i>	(Optional) IPv6 Valid Information
version	(Optional) Version
<i>ver</i>	(Optional) Version
header-len	(Optional) Header Length
<i>hlen</i>	(Optional) Header Length
dscp	(Optional) Diff. Serv. Code Point
<i>dscp_val</i>	(Optional) Diff. Serv. Code Point
ecn	(Optional) Explicit Congestion Ntn
<i>ecn_val</i>	(Optional) Explicit Congestion Ntn
packet-len	(Optional) Packet Total Length
<i>pkt_len</i>	(Optional) Packet Total Length
more-frags	(Optional) More Fragments Available
<i>mf</i>	(Optional) More Fragments Available
fragment-off	(Optional) Fragments Offset
<i>fragoff</i>	(Optional) Fragments Offset
ttl	(Optional) Time to Live

<i>ttl_val</i>	(Optional) Time to Live
<i>next-protocol</i>	(Optional) Next(L4) Protocol
<i>nproto</i>	(Optional) Next(L4) Protocol
<i>checksum</i>	(Optional) Checksum
<i>csum</i>	(Optional) Checksum
<i>src_ip</i>	(Optional) Source IP Address
<i>sip</i>	(Optional) Source IP Address
<i>dst_ip</i>	(Optional) Destination IP Address
<i>dip</i>	(Optional) Destination IP Address

Command Mode

- /exec/elanms/sel3

set outer l2

```
set outer l2 [ { snap_vld <snap_vld> | cntag_vld <cntag_vld> | qtag_vld <qtag_vld> | vlan <vlan_id> | cos
<cos_val> | cfi <cfi_vld> | vntag_vld <vntag_vld> | vntag_svif <vntag_svif> | vntag_dvif <vntag_dvif> |
vntag_looped <vntag_loop> | vntag_pointer <vntag_p> | src_mac <smac> | dst_mac <dmac> } ] +
```

Syntax Description

Syntax Description

set	Setup Trigger
outer	Mask and Match By Outer Packet Fields
l2	All Layer 2 Fields
snap_vld	(Optional) SNAP Header Information Valid
<i>snap_vld</i>	(Optional) SNAP Header Information Valid
cntag_vld	(Optional) CNTag Information Valid
<i>cntag_vld</i>	(Optional) CNTag Information Valid
qtag_vld	(Optional) VLAN Tag Information Valid
<i>qtag_vld</i>	(Optional) VLAN Tag Information Valid
vlan	(Optional) VLAN Id (Present only in case of FEX)
<i>vlan_id</i>	(Optional) VLAN Id
cos	(Optional) Class of Service
<i>cos_val</i>	(Optional) Class of Service Type
cfi	(Optional) CFI Setting
<i>cfi_vld</i>	(Optional) CFI Setting Valid
vntag_vld	(Optional) VNTAG Information Valid
<i>vntag_vld</i>	(Optional) VNTAG Information Valid
vntag_svif	(Optional) VNTAG Source vif
<i>vntag_svif</i>	(Optional) VNTAG Source vif
vntag_dvif	(Optional) VNTAG Destination vif
<i>vntag_dvif</i>	(Optional) VNTAG Destination vif
vntag_looped	(Optional) VNTAG Header Looped Valid
<i>vntag_loop</i>	(Optional) VNTAG Header Looped Valid
vntag_pointer	(Optional) VNTAG Header Pointer Valid

<i>vntag_p</i>	(Optional) VNTAG Header Pointer Valid
<i>src_mac</i>	(Optional) Source MAC Address
<i>smac</i>	(Optional) Source MAC Address Value
<i>dst_mac</i>	(Optional) Destination MAC Address
<i>dmac</i>	(Optional) Destination MAC Address Value

Command Mode

- /exec/elanms/se13

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

Syntax Description

set	Setup Trigger
outer	Mask and Match By Outer Packet Fields
l2	All Layer 2 Fields
hg2	High Gig2 Fields
hg2_vid	(Optional) High Gig2 VLAN Tag
<i>hg2_vlan</i>	(Optional) High Gig2 VLAN Tag Information
hg2_ppd_type	(Optional) High Gig2 Packet Processing Descriptor
<i>hg2_ppd_type</i>	(Optional) High Gig2 Packet Processing Descriptor
hg2_mirror	(Optional) High Gig2 Packet Mirror Information
<i>hg2_mirror</i>	(Optional) High Gig2 Packet Mirror Information
hg2_opcode	(Optional) High Gig2 Packet Type
<i>hg2_opcode</i>	(Optional) High Gig2 Packet Type
hg2_dstpid	(Optional) High Gig2 Destination Port ID
<i>hg2_dpid</i>	(Optional) High Gig2 Destination Port ID
hg2_dstmod	(Optional) High Gig2 Destination Module ID
<i>hg2_dmod</i>	(Optional) High Gig2 Destination Module ID
hg2_srcpid	(Optional) High Gig2 Source Port ID
<i>hg2_spid</i>	(Optional) High Gig2 Source Port ID
hg2_srcmod	(Optional) High Gig2 Souce Module ID
<i>hg2_smod</i>	(Optional) High Gig2 Souce Module ID
hg2_l3vld	(Optional) High Gig2 Packet L3 Switched
<i>hg2_l3_vld</i>	(Optional) High Gig2 Packet L3 Switched
hg2_tc	(Optional) High Gig2 Packet Traffic Class

<i>hg2_tc</i>	(Optional) High Gig2 Packet Traffic Class
<i>hg2_dp</i>	(Optional) High Gig2 Drop Precedence
<i>hg2_dp</i>	(Optional) High Gig2 Drop Precedence
<i>hg2_mcast</i>	(Optional) High Gig2 MultiCast Forwarding Information
<i>hg2_mcast_vld</i>	(Optional) High Gig2 Multicast Forwarding Information
<i>hg2-vld</i>	(Optional) High Gig2 Valid Information
<i>hg2_vld</i>	(Optional) High Gig2 Valid Information
<i>hg2-cos</i>	(Optional) High Gig2 CoS Information
<i>hg2_cos</i>	(Optional) High Gig2 CoS Information

Command Mode

- /exec/elanms/sel3

set outer l4

```
set outer l4 [ { src-port <sport> | dst-port <dport> | packet-len <pkt_len> | checksum <csum> | flags <flag_val>
} ] +
```

Syntax Description

Syntax Description		
set	Setup Trigger	
outer	Mask and Match By Outer Packet Fields	
l4	L4 Fields	
src-port	(Optional) Source Port Information	
<i>sport</i>	(Optional) Source Port	
dst-port	(Optional) Destination Port Information	
<i>dport</i>	(Optional) Destination Port	
packet-len	(Optional) Packet Length	
<i>pkt_len</i>	(Optional) Packet Length	
checksum	(Optional) Checksum	
<i>csum</i>	(Optional) Checksum	
flags	(Optional) L4 Flags	
<i>flag_val</i>	(Optional) L4 Flags	

Command Mode

- /exec/elanms/sel3

set path-selection all advertise

[no] set path-selection all advertise

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
set	Set values in destination routing protocol	
path-selection	Path selection criteria for BGP	
all	Specifies all BGP Paths	
advertise	Advertise add paths to its peers if receive capability enabled	

Command Mode

- /exec/configure/route-map

set pktmgr pds yield-threshold

set pktmgr pds yield-threshold [<thr>]

Syntax Description

Syntax Description		
set		Set values
pktmgr		Set values in pktmgr
pds		Set value for pktmgr pds operation
yield-threshold		Set Value of yield-threshold
<i>thr</i>		(Optional) threshold

Command Mode

- /exec

set pktrw

```
set pktrw { mcast <mcast> | sup_redir <sured> | bcm_proxy <bcm_proxy> | excep_case <excep> | transit
<trans> | vpc_df <vpc_df> | src_tep_idx <src_tep> | lat_update <lat_update> | lat_idx <lat_idx> | src_class
<sclass> | ol_fb_met <ol_fb_met> | ol_fb_vpath <ol_fb_vpath> | ol_dre <ol_dre> | ol_vpath <ol_vpath> |
ol_dp <ol_dp> | ol_sp <ol_sp> | ol_e <ol_e> | ol_dl <ol_dl> | ol_lb <ol_lb> | ol_mark <ol_mark> | ol_udp_sp
<ol_udp_sp> | ol_ftag <ol_ftag> | ol_segid <ol_segid> | ol_ttl <ol_ttl> | ol_ecn <ol_ecn> | ol_dscp <ol_dscp>
| ol_de <ol_de> | ol_cos <ol_cos> | ol_mac <ol_mac> | ol_encap_idx <ol_encap> | ol_vpc <ol_vpc> | ol_idx
<ol_idx> | ttl <ttl> | dscp <dscp> | vlan1 <vlan1> | ecn_coi <ecn_coi> | ecn_cio <ecn_cio> | ttl_coi <ttl_coi>
| ttl_cio <ttl_cio> | adj_idx <adj_idx> | vntag_svif <vntag_svif> | de <de> | cos <cos> | vlan0 <vlan0> | adj_vld
<adj_vld> | uc_routed <uc_routed> | loopback <lpb> | ecn <ecn> | hg2_vid <hg2_vlan> | hg2_ppd <hg2_ppd>
| hg2_tc_sup_copy <hg2_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

Syntax Description

set	Setup Trigger
pktrw	All packet re-write fields
mcast	mcast
<i>mcast</i>	Mcast
sup_redir	Sup Redirect
<i>sured</i>	Sup Redirect
bcm_proxy	Broadcom Proxy
<i>bcm_proxy</i>	Broadcom Proxy
excep_case	Excep_case
<i>excep</i>	Excep_case
transit	Transit
<i>trans</i>	Transit
vpc_df	VPC_df
<i>vpc_df</i>	VPC_df
src_tep_idx	Src TEP Index
<i>src_tep</i>	Src TEP Index
lat_update	Lat Update

<i>lat_update</i>	Lat Update
<i>lat_idx</i>	Lat Index
<i>lat_idx</i>	Lat Index
<i>src_class</i>	Source Class
<i>sclass</i>	Source Class
<i>ol_fb_met</i>	Ol_fb_metric
<i>ol_fb_met</i>	Ol_fb_metric
<i>ol_fb_vpath</i>	Ol_fb_vpath
<i>ol_fb_vpath</i>	Ol_fb_vpath
<i>ol_dre</i>	Ol_dre
<i>ol_dre</i>	Ol_dre
<i>ol_vpath</i>	Ol_vpath
<i>ol_vpath</i>	Ol_vpath
<i>ol_dp</i>	Ol_dp
<i>ol_dp</i>	Ol_dp
<i>ol_sp</i>	Ol_sp
<i>ol_sp</i>	Ol_sp
<i>ol_e</i>	Ol_e
<i>ol_e</i>	Ol_e
<i>ol_dl</i>	Ol_dl
<i>ol_dl</i>	Ol_dl
<i>ol_lb</i>	Ol_lb
<i>ol_lb</i>	Ol_lb
<i>ol_mark</i>	Ol_mark
<i>ol_mark</i>	Ol_mark
<i>ol_udp_sp</i>	Ol_UDP_sp
<i>ol_udp_sp</i>	Ol UDP Source Port
<i>ol_ftag</i>	Ol_ftag
<i>ol_ftag</i>	Ol_ftag

ol_segid	Ol_segid
<i>ol_segid</i>	Ol_segid
ol_ttl	Ol_TTL
<i>ol_ttl</i>	Ol_TTL
ol_ecn	Ol_ecn
<i>ol_ecn</i>	Ol_ecn
ol_dscp	Ol_dscp
<i>ol_dscp</i>	Ol_dscp
ol_de	Ol_de
<i>ol_de</i>	Ol_de
ol_cos	Ol_cos
<i>ol_cos</i>	Ol_cos
ol_mac	Ol_mac
<i>ol_mac</i>	Ol_mac
ol_encap_idx	Ol_encap_idx
<i>ol_encap</i>	Ol_encap_idx
ol_vpc	Ol_VPC
<i>ol_vpc</i>	Ol_VPC
ol_idx	Ol_idx
<i>ol_idx</i>	Ol_idx
ttl	TTL
<i>ttl</i>	TTL
dscp	DSCP
<i>dscp</i>	DSCP
vlan1	Vlan1
<i>vlan1</i>	Vlan1
ecn_coi	ecn_coi
<i>ecn_coi</i>	ecn_coi
ecn_cio	ecn_cio

<i>ecn_cio</i>	ecn_cio
ttl_coi	ttl_coi
<i>ttl_coi</i>	ttl_coi
ttl_cio	ttl_cio
<i>ttl_cio</i>	ttl_cio
adj_idx	adj_idx
<i>adj_idx</i>	adj_idx
vntag_svif	vntag_svif
<i>vntag_svif</i>	vntag_svif
de	de
<i>de</i>	de
cos	cos
<i>cos</i>	cos
vlan0	vlan0
<i>vlan0</i>	vlan0
adj_vld	adj_vld
<i>adj_vld</i>	adj_vld
uc_routed	uc_routed
<i>uc_routed</i>	uc_routed
loopback	loopback
<i>lpb</i>	loopback
ecn	ecn
<i>ecn</i>	ecn
hg2_vid	High Gig2 VLAN Tag
<i>hg2_vlan</i>	High Gig2 VLAN Tag Information
hg2_cos	High Gig2 CoS Information
<i>hg2_cos</i>	High Gig2 CoS Information
hg2_ppd	High Gig2 Packet Processing Descriptor
<i>hg2_ppd</i>	High Gig2 Packet Processing Descriptor

<i>hg2_tc_sup_copy</i>	High Gig2 Traffic Class SUP Copy
<i>hg2_tcscopy</i>	High Gig2 Traffic Class SUP Copy
<i>hg2_tc</i>	High Gig2 Packet Traffic Class
<i>hg2_tc</i>	High Gig2 Packet Traffic Class
<i>hg2_lbid</i>	High Gig2 Packet Ibid
<i>hg2_lbid</i>	High Gig2 Packet Ibid
<i>hg2_opc</i>	High Gig2 Packet Type
<i>hg2_opc</i>	High Gig2 Packet Type
<i>hg2_dstpid</i>	High Gig2 Destination Port ID
<i>hg2_dpid</i>	High Gig2 Destination Port ID
<i>hg2_dstmod</i>	High Gig2 Destination Module ID
<i>hg2_dmod</i>	High Gig2 Destination Module ID
<i>hg2_srcpid</i>	High Gig2 Source Port ID
<i>hg2_spid</i>	High Gig2 Source Port ID
<i>hg2_srcmod</i>	High Gig2 Souce Module ID
<i>hg2_smod</i>	High Gig2 Souce Module ID
<i>op_inner</i>	Op_inner
<i>op_inner</i>	Op_inner
<i>op_outer</i>	Op_outer
<i>op_outer</i>	Op_outer
<i>op_qtag</i>	Op_qtag
<i>op_qtag</i>	Op_qtag
<i>op_vntag</i>	Op_vntag
<i>op_vntag</i>	Op_vntag
<i>pkt_type</i>	Pkt_type
<i>pkt_type</i>	Pkt_type
<i>drop</i>	Drop
<i>drp</i>	Drop
<i>pkt_tstmp</i>	Packet timestamp

<i>pkt_tstamp</i>	Packet timestamp
<i>tstamp</i>	Timestamp
<i>tstamp</i>	Timestamp
<i>cap_tstamp</i>	Capture Timestamp
<i>cap_tstamp</i>	Capture Timestamp
<i>len_info</i>	Len_info
<i>len_info</i>	Len_info
<i>len_type</i>	Len_type
<i>len_type</i>	Len_type
<i>pktid</i>	Pkt_id
<i>pktid</i>	Pkt_id
<i>srcid</i>	Src_id
<i>srcid</i>	Src_id
<i>pktfmt1</i>	Pktfmt1
<i>pktfmt1</i>	Pktfmt1
<i>pktfmt0</i>	Pktfmt0
<i>pktfmt0</i>	Pktfmt0

Command Mode

- /exec/elanms/outsel0

set sideband

```
set sideband { span_vec <span_vec> | bounce <bnc> | mclast <mclast> | mcastcurptr <mccurptr> | mcastcurptr_v
<mccurptr_v> | srcport <sport> | vlan <vlan> | segwgt <segwgt> | segid <segid> | seglocal <seglcl> | gbw_color
<gbw_color> | gbw_tag <gbw_tagg> | fwddrp <fwddrp> | l2fld <l2fld> | nodrp <nodrp> | ovrlyidx <ovrlyidx>
| ecncap <ecncap> | cpu <cpu> | store_fwd <stfwd> | mcast <mcast> | oclass <ocls> | iclass <icls> | odest_v
<odest_v> | odest <odest> | ovec <ovec> | span_trans <span_trans> | lbtype <lbtype> | lbena <lbena> | tdmid
<tdmid> | pktid <pktid> | srcid <srcid> | eoferror <eoferr> | eofbytes <eofby> | eof <eof> | sof <sof> } +
```

Syntax Description

Syntax Description

set	Setup Trigger
sideband	All sideband fields
span_vec	SPAN vector
<i>span_vec</i>	SPAN vector
bounce	Bounce
<i>bnc</i>	Bounce
mclast	Mclast
<i>mclast</i>	Mclast
mcastcurptr	Mcast cur ptr
<i>mccurptr</i>	Mcast cur ptr
mcastcurptr_v	Mcast cur ptr v
<i>mccurptr_v</i>	Mcast cur ptr v
srcport	Source Port
<i>sport</i>	Source Port
vlan	Vlan
<i>vlan</i>	Vlan
segwgt	Segwgt
<i>segwgt</i>	Segwgt
segid	Segid
<i>segid</i>	Segid
seglocal	Seglocal

<i>seglcl</i>	Seglocal
<i>gbw_color</i>	GBW color
<i>gbw_color</i>	GBW color
<i>gbw_tag</i>	GBW tagged
<i>gbw_tagg</i>	GBW tagged
<i>fwddrp</i>	Forward drop
<i>fwddrp</i>	Forward drop
<i>l2fld</i>	L2 Flood
<i>l2fld</i>	L2 Flood
<i>nodrp</i>	No drop
<i>nodrp</i>	No drop
<i>ovrlyidx</i>	Overlay index
<i>ovrlyidx</i>	Overlay index
<i>ecncap</i>	ECN Capable
<i>ecncap</i>	ECN Capable
<i>cpu</i>	CPU
<i>cpu</i>	CPU
<i>store_fwd</i>	Store_fwd
<i>stfwd</i>	Store_fwd
<i>mcast</i>	Multicast
<i>mcast</i>	Multicast
<i>oclass</i>	Output class
<i>ocls</i>	Output class
<i>iclass</i>	Input class
<i>icls</i>	Input class
<i>odest_v</i>	Odest_v
<i>odest_v</i>	Odest_v
<i>odest</i>	Odest
<i>odest</i>	Odest

<code>ovec</code>	Ovector
<code>ovec</code>	Ovector
<code>span_trans</code>	SPAN transit
<code>span_trans</code>	SPAN transit
<code>lbtype</code>	Lbtype
<code>lbtype</code>	Lbtype
<code>lbena</code>	Lbenable
<code>lbena</code>	Lbenable
<code>tdmid</code>	Tdmid
<code>tdmid</code>	Tdmid
<code>pktid</code>	Pkt_id
<code>pktid</code>	Pkt_id
<code>srcid</code>	Src_id
<code>srcid</code>	Src_id
<code>eoferror</code>	EOF error
<code>eoferr</code>	EOF erro
<code>eofbytes</code>	EOF bytes
<code>eofby</code>	EOF bytes
<code>eof</code>	EOF
<code>eof</code>	EOF
<code>sof</code>	SOF
<code>sof</code>	SOF

Command Mode

- `/exec/elamns/outsel5`

set tag

```
{ { set tag <value> } | { no set tag [ <value> ] } }
```

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
set	Set values in destination routing protocol
tag	Tag value for destination routing protocol
<i>value</i>	Tag value

Command Mode

- /exec/configure/route-map

set weight

```
{ set weight <count> | no set weight [ <count> ] }
```

Syntax Description

Syntax Description	
<code>no</code>	Negate a command or set its defaults
<code>set</code>	Set values in destination routing protocol
<code>weight</code>	BGP weight for routing table
<code>count</code>	Weight value

Command Mode

- /exec/configure/route-map

setup

setup

Syntax Description

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

Syntax Description

sflow	change sFlow global settings
sampling-rate	(Optional) sFlow Sampling Rate
<i>rate</i>	(Optional) sFlow Sampling rate
max-sampled-size	(Optional) sFlow Sampled Size
<i>pkt-size</i>	(Optional) sFlow Sampled Size
counter-poll-interval	(Optional) sFlow Counter Poll Interval
<i>interval</i>	(Optional) sFlow Counter Poll Interval
max-datagram-size	(Optional) sFlow Datagram Size
<i>dgram-size</i>	(Optional) sFlow Datagram Size
collector-ip	(Optional) sFlow Collector IP address
<i>dst-ip</i>	(Optional) sFlow Collector IP address
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
source	(Optional) Source IP address to send to sFlow Collector
<i>src-ip</i>	(Optional) Source IP address to send to sFlow Collector
collector-port	(Optional) sFlow Collector UDP port
<i>dst-port</i>	(Optional) sFlow Collector UDP port
agent-ip	(Optional) sFlow Agent IP address
<i>agent-ip</i>	(Optional) sFlow Agent IP address

Command Mode

- /exec/configure

sflow

[no] sflow { sampling-rate | max-sampled-size | counter-poll-interval | max-datagram-size | collector-ip | collector-port | agent-ip }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
sflow		change sFlow global settings
sampling-rate		sFlow Sampling Rate
max-sampled-size		sFlow Sampled Size
counter-poll-interval		sFlow Counter Poll Interval
max-datagram-size		sFlow Datagram Size
collector-ip		sFlow Collector IP address
collector-port		sFlow Collector UDP port
agent-ip		sFlow Agent IP address

Command Mode

- /exec/configure

sflow cpu-usage limit

sflow cpu-usage limit <percent>

Syntax Description

Syntax Description	sflow	change sFlow global settings
	cpu-usage	sFlow cpu usage setting
	limit	sFlow cpu usage limit
	<i>percent</i>	sFlow cpu usage limit percentage

Command Mode

- /exec/configure

sflow data-source interface

sflow data-source interface { <ifnum> | <pcifnum> }

Syntax Description

Syntax Description	
sflow	change sFlow global settings
data-source	sFlow Data Source
interface	sFlow Data Source Interface
<i>ifnum</i>	sFlow Data Source Interface
<i>pcifnum</i>	sFlow Data Source Interface

Command Mode

- /exec/configure

sflow data-source interface

[no] sflow data-source interface { <ifnum> | <pcifnum> }

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	sflow	change sFlow global settings
	data-source	sFlow Data Source
	interface	sFlow Data Source Interface
	<i>ifnum</i>	sFlow Data Source Interface
	<i>pcifnum</i>	sFlow Data Source Interface

Command Mode

- /exec/configure

sflow extended switch

[no] sflow extended switch

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
sflow	change sFlow global settings
extended	sFlow extended flow records
switch	sFlow extended switch flow

Command Mode

- /exec/configure

shape

```
[no] shape { { { [ average ] { <avg-rate> [ bps | kbps | mbps | gbps ] | percent <percentage> } } | { min { <min-rate> [ bps2 | kbps2 | mbps2 | gbps2 | pps2 ] | percent2 <percentage2> } max { <max-rate> [ bps3 | kbps3 | mbps3 | gbps3 | pps3 ] | percent3 <percentage3> } } } | { { kbps4 | pps4 } { <max-rate4> [ min2 <min-rate4> ] } } }
```

Syntax Description

Syntax Description

no	(Optional) Negate a command or set its defaults
shape	shape
average	(Optional) Configure average shape rate
min	Configure minimum shape rate
max	Configure maximum shape rate
bps	(Optional) Bits per second
kbps	(Optional) Kilo bits per second
mbps	(Optional) Mega bits per second
gbps	(Optional) Giga bits per second
bps2	(Optional) Bits per second
kbps2	(Optional) Kilo Bits per second
mbps2	(Optional) Mega Bits per second
gbps2	(Optional) Giga Bits per second
pps2	(Optional) Packets per second
bps3	(Optional) Bits per second
kbps3	(Optional) Kilo Bits per second
mbps3	(Optional) Mega Bits per second
gbps3	(Optional) Giga Bits per second
pps3	(Optional) Packets per second
percent	Specify rate as percentage of interface data-rate
percent2	Specify rate as percentage of interface data-rate
percent3	Specify rate as percentage of interface data-rate
<i>percentage</i>	Percentage

<i>percentage2</i>	Percentage
<i>percentage3</i>	Percentage
<i>kbits4</i>	Kilo Bits per second
<i>pps4</i>	Packets per second
<i>min2</i>	(Optional) Min guaranteed bandwidth

Command Mode

- /exec/configure/policy-map/type/queuing/class

shared-secret

```
[no] shared-secret { 10 <clear> | 7 <encrypted> | <secret> } [ user <user> password { 0 <clear> | 7 <encrypted> | <password> } ]
```

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
shared-secret	Shared-secret
<i>secret</i>	Enter shared-secret in clear text
10	password in clear text
<i>clear</i>	Password in clear text
7	Password that follows should be in encrypted text
<i>encrypted</i>	Encrypted password
user	(Optional) User Name
<i>user</i>	(Optional) Enter user name
password	(Optional) Password
<i>password</i>	(Optional) Enter password in clear text
0	(Optional) Password that follows should be in clear text
<i>clear</i>	(Optional) Password in clear text
7	(Optional) Password that follows should be in encrypted text
<i>encrypted</i>	(Optional) Encrypted password

Command Mode

- /exec/configure/fabric-db/server-radius

shutdown

[no] shutdown

Syntax Description

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

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

Syntax Description	
no	(Optional) Negate a command or set its defaults
shutdown	Shutdown the CBTS member LSP

Command Mode

- /exec/configure/tunnel-te/cbts-member

shutdown

[no] shutdown

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
shutdown	Administratively shutdown BGP protocol

Command Mode

- /exec/configure/router-bgp

shutdown

[no | default] shutdown

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
shutdown	Administratively shutdown this neighbor

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor-sess

shutdown

[no] shutdown

Syntax Description

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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-vfc /exec/configure/if-vfc-port-channel

shutdown

[no] shutdown

Syntax Description

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

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

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

shutdown | no shutdown

Syntax Description

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

Syntax Description	
no	(Optional) Negate a command or set its defaults
shutdown	Enable/disable an interface

Command Mode

- /exec/configure/if-vlan-common

shutdown force

[no] shutdown force

Syntax Description

Syntax	Description
no	(Optional) Negate a command or set its defaults
shutdown	Enable/disable an interface
force	Enable/disable an interface

Command Mode

- /exec/configure/if-mgmt-ether

shutdown lan

shutdown lan

Syntax Description

Syntax Description

shutdown Enable/disable an interface

lan Shut all LAN VLANs on interface

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-non-member /exec/configure/if-port-channel

shutdown lan

[no] shutdown lan

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
shutdown	Enable/disable an interface
lan	Shut all LAN VLANs on interface

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-non-member /exec/configure/if-port-channel

signalling advertise explicit-null

[no] signalling advertise explicit-null | signalling advertise explicit-null [<acl>]

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
signalling		Traffic Engineering Signalling Parameters
advertise		Signalling advertisement parameters
explicit-null		Advertise explicit-null label in signalling messages
<i>acl</i>		(Optional) Access list

Command Mode

- /exec/configure/te

signalling client batch-time

[no] signalling client batch-time <msec>

Syntax Description

Syntax Description	signalling	Configure RSVP Signalling information
	client	Client information
	batch-time	Time interval between batched messages to client
	<i>msec</i>	Batch-time msec [use 0 to disable, else minimum timer value is 20 msec]

Command Mode

- /exec/configure/ip-rsvp

signalling hello graceful-restart

[no] signalling hello graceful-restart

Syntax Description

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

Syntax Description		
signalling		Configure RSVP Signalling information
hello		RSVP Hello configuration commands
graceful-restart		RSVP Graceful restart commands
refresh		Configure RSVP Hello refresh behavior for Graceful Restart
interval		Time between sending Hello Requests for Graceful Restart
<i>value</i>		Hello interval in msec

Command Mode

- /exec/configure/ip-rsvp

signalling hello graceful-restart refresh misses

[no] signalling hello graceful-restart refresh misses <value>

Syntax Description

Syntax Description		
signalling	Configure RSVP Signalling information	
hello	RSVP Hello configuration commands	
graceful-restart	RSVP Graceful restart commands	
refresh	Configure RSVP Hello refresh behavior for Graceful Restart	
misses	Number of Hello misses for Graceful Restart	
<i>value</i>	Number of missed Hello Acks which triggers neighbor down	

Command Mode

- /exec/configure/ip-rsvp

signalling hello graceful-restart send recovery-time

[no] signalling hello graceful-restart send recovery-time <value>

Syntax Description

Syntax Description		
signalling		Configure RSVP Signalling information
hello		RSVP Hello configuration commands
graceful-restart		RSVP Graceful restart commands
send		Configure the restart-time in outgoing Hello msgs
recovery-time		Configure the recovery-time in outgoing GR Hello msgs
<i>value</i>		recovery-time in msec

Command Mode

- /exec/configure/ip-rsvp

signalling hello graceful-restart send restart-time

[no] signalling hello graceful-restart send restart-time <value>

Syntax Description

Syntax Description		
signalling	Configure RSVP Signalling information	
hello	RSVP Hello configuration commands	
graceful-restart	RSVP Graceful restart commands	
send	Configure the restart-time in outgoing Hello msgs	
restart-time	Configure the restart-time in outgoing GR Hello msgs	
<i>value</i>	restart-time in msec	

Command Mode

- /exec/configure/ip-rsvp

signalling hello reroute

[no] signalling hello reroute

Syntax Description

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

Syntax Description		
signalling		Configure RSVP Signalling information
initial-retransmit-delay		RSVP Initial retransmit delay
<i>msec</i>		Initial retransmit delay in millisec

Command Mode

- /exec/configure/ip-rsvp

signalling patherr state-removal

[no] signalling patherr state-removal

Syntax Description

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

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

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

Syntax Description	signalling	Configure RSVP Signalling information
	refresh	Configure RSVP signaling refresh parameters
	misses	Set refresh misses tolerated before expiring a state
	<i>value</i>	Refresh miss value

Command Mode

- /exec/configure/ip-rsvp

signalling refresh pace

[no] signalling refresh pace

Syntax Description

Syntax Description

signalling Configure RSVP Signalling information

refresh Configure RSVP signaling refresh parameters

pace Pace sending of refresh messages

Command Mode

- /exec/configure/ip-rsvp

signalling refresh reduction

[no] signalling refresh reduction

Syntax Description

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

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 millisec

Command Mode

- /exec/configure/ip-rsvp

signalling refresh reduction bundle-max-size

[no] signalling refresh reduction bundle-max-size <value>

Syntax Description

Syntax Description		
signalling	Configure RSVP Signalling information	
refresh	Configure RSVP signaling refresh parameters	
reduction	Enable, disable or set refresh reduction parameters	
bundle-max-size	Set bundle-maximum-size	
<i>value</i>	Bundle size in bytes, use zero to disable bundling	

Command Mode

- /exec/configure/ip-rsvp

signalling refresh reduction bundle-transmit-time

[no] signalling refresh reduction bundle-transmit-time <msec>

Syntax Description

Syntax Description		
signalling		Configure RSVP Signalling information
refresh		Configure RSVP signaling refresh parameters
reduction		Enable, disable or set refresh reduction parameters
bundle-transmit-time		Set bundle-transmit-time
<i>msec</i>		Bundle transmit time value in msec

Command Mode

- /exec/configure/ip-rsvp

signalling refresh reduction rapid-retransmit

[no] signalling refresh reduction rapid-retransmit

Syntax Description

Syntax Description		
signalling	Configure RSVP Signalling information	
refresh	Configure RSVP signaling refresh parameters	
reduction	Enable, disable or set refresh reduction parameters	
rapid-retransmit	Rapid-retransmit of RSVP messages	

Command Mode

- /exec/configure/ip-rsvp

signing level

{ [no] signing level { none | cisco | unsigned } | no signing level }

Syntax Description

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

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

Syntax Description		
no		Negate a command or set its defaults
site-of-origin		Site of Origin
<i>ext-comm-soo-aa2nn4</i>		Extcommunity number
<i>ext-comm-soo-aa4nn2</i>		Extcommunity number

Command Mode

- /exec/configure/if-igp /exec/configure/if-mgmt-ether

sleep

sleep <i0>

Syntax Description

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

Syntax Description	no	Negate a command or set its defaults
	sleep	Sleep for the specified number of seconds
	instance	Label with an instance number
	<i>inst</i>	Instance number
	<i>i0</i>	(Optional) Enter the number of seconds to sleep

Command Mode

- /exec/configure

slot

slot <module> { quoted <quoted-cmd> | <cmd> }

Syntax Description

Syntax Description

slot	run commands on specific linecard (or set slot for commands that take optional slot number)
<i>module</i>	the slot number (aka module number)
quoted	enter the command with quotes -> pipe redirection and semi-colon are local
<i>quoted-cmd</i>	the command(s) to run on lc separated by <space> <semi-colon> <space>
<i>cmd</i>	the command(s) to run on lc separated by <space> <semi-colon> <space>

Command Mode

- /exec

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

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

Syntax Description

snapshot	Create/Delete a snapshot
create	Create a snapshot of running state of selected features
<i>snapshot-name</i>	Name of a snapshot
<i>snapshot-description</i>	Description of a snapshot

Command Mode

- /exec

snapshot delete

snapshot delete <snapshot-name>

Syntax Description

Syntax Description		
snapshot		Create/Delete a snapshot
delete		Delete a single snapshot or all snapshots
<i>snapshot-name</i>		Name of a snapshot

Command Mode

- /exec

snapshot delete ALL

snapshot delete ALL

Syntax Description

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

Syntax Description

snapshot	Create/Delete a snapshot
section	Add/Delete a snapshot section
add	Add a snapshot section
<i>name</i>	Name of a section
<i>command</i>	'show' command to generate XML output
<i>row-id</i>	tag of each row entry of the 'show' XML output
<i>key1</i>	first key to distinguish among row entries with
<i>key2</i>	(Optional) second key to distinguish among row entries with

Command Mode

- /exec

snapshot section delete

snapshot section delete <name>

Syntax Description

Syntax Description	snapshot	Create/Delete a snapshot
	section	Add/Delete a snapshot section
	delete	Delete a snapshot section
	<i>name</i>	Name of a section

Command Mode

- /exec

snmp-server aaa-user cache-timeout

[no] snmp-server aaa-user cache-timeout <timeout>

Syntax Description

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 <s0> [{ group <s1> | ro | rw }]

Syntax Description

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 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

Syntax Description

no	Negate a command or set its defaults
snmp-server	Configure snmp server
community	set community string and access privs
<i>community_name</i>	SNMP community string
use-ipv4acl	Specify IPv4 ACL, the ACL name specified after must be IPv4 ACL.
<i>ipv4_acl_name</i>	(Optional) IPv4 ACL name to filter snmp requests
use-ipv6acl	Specify IPv6 ACL, the ACL name specified after must be IPv6 ACL.
<i>ipv6_acl_name</i>	(Optional) IPv6 ACL name to filter snmp requests

Command Mode

- /exec/configure

snmp-server community use-acl

[no] snmp-server community <community_name> use-acl <acl_name>

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
snmp-server		Configure snmp server
community		set community string and access privs
<i>community_name</i>		SNMP community string
use-acl		acl name to filter snmp requests
<i>acl_name</i>		acl name to filter snmp requests

Command Mode

- /exec/configure

snmp-server contact

[no] snmp-server contact [<line>]

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
contact	modify sysContact
<i>line</i>	(Optional) modify sysContact

Command Mode

- /exec/configure

snmp-server context

```
[no] snmp-server context <context_name> [ instance <instance-name> ] [ vrf { <vrf-name> | <vrf-known-name> } ] [ topology <topology-name> ]
```

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
snmp-server		Configure snmp server
context		SNMP context to be mapped
<i>context_name</i>		name of the SNMP context
instance	(Optional)	Protocol instance associated with the SNMP context
<i>instance-name</i>	(Optional)	Name of the protocol instance
vrf	(Optional)	VRF associated with the SNMP context
<i>vrf-name</i>	(Optional)	VRF name
<i>vrf-known-name</i>	(Optional)	Known VRF name
topology	(Optional)	Topology associated with the SNMP context
<i>topology-name</i>	(Optional)	name of the Topology

Command Mode

- /exec/configure

snmp-server context type len val

[no] snmp-server context <context_name> type { vrf | topology | instance | vlan | mst } len <i2> val <i3>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
context	SNMP context to be mapped
<i>context_name</i>	name of the SNMP context
type	type of association to context
instance	Protocol instance associated with the SNMP context
vrf	VRF associated with the SNMP context
topology	Topology associated with the SNMP context
vlan	Vlan id associated with the SNMP context
mst	Mst id associated with the SNMP context
len	Length of value
<i>i2</i>	Length of value
val	Value
<i>i3</i>	Value of variable associated with the SNMP context

Command Mode

- /exec/configure

snmp-server counter cache-enable

[no] snmp-server counter cache-enable

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	snmp-server	Configure snmp server
	counter	Configure port counter configuration
	cache-enable	Enable port stats cache

Command Mode

- /exec/configure

snmp-server counter cache enable

[no] snmp-server counter cache enable

Syntax Description

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

Syntax Description	
no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
counter	Configure port counter configuration
cache	Port stats cache
timeout	Timeout for port stats cache
<i>timeout</i>	Timeout for which cached port stats exists(in secs)

Command Mode

- /exec/configure

snmp-server enable traps

[no] snmp-server enable traps [<trap_arg> [<trap_sub_category> +]]

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
snmp-server		Configure snmp server
enable		Enable SNMP Traps
traps		Enable SNMP traps
<i>trap_arg</i>	(Optional)	Enable __left__ traps
<i>trap_sub_category</i>	(Optional)	Enter the trap

Command Mode

- /exec/configure

snmp-server enable traps bgp

[no] snmp-server enable traps bgp [{ state-changes [<subsystem> +] }]

Syntax Description

Syntax Description	Description
no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
enable	Enable SNMP Traps
traps	Enable SNMP traps
bgp	Enable SNMP BGP traps
state-changes	(Optional) Traps for FSM state changes
<i>subsystem</i>	(Optional) subsystem within BGP for SNMP traps

Command Mode

- /exec/configure

snmp-server enable traps bgp cbgp2

[no] snmp-server enable traps bgp cbgp2 [{ state-changes [<subsystem> +] }]

Syntax Description

Syntax Description	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

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

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

Syntax Description		
no	(Optional)	Negate a command or set its defaults
snmp-server		Configure snmp server
enable		Enable SNMP Traps
traps		Enable SNMP traps
eigrp		Enable SNMP EIGRP traps
<i>eigrp-ptag</i>	(Optional)	Process tag

Command Mode

- /exec/configure

snmp-server enable traps ospf

[no] snmp-server enable traps ospf [<tag>]

Syntax Description

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

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

Syntax Description		
no		Negate a command or set its defaults
snmp-server		Configure snmp server
enable		Enable SNMP Traps
traps		Enable SNMP traps
ospf		Enable SNMP OSPF traps
<i>tag</i>		(Optional) Process tag
rate-limit		Trap rate limit values
<i>window</i>		(Optional) Rate limit window size in seconds
<i>rate</i>		(Optional) Max number of traps sent in window time
<i>tag</i>		(Optional)

Command Mode

- /exec/configure

snmp-server enable traps ospfv3

[no] snmp-server enable traps ospfv3 [<tag>]

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
snmp-server		Configure snmp server
enable		Enable SNMP Traps
traps		Enable SNMP traps
ospfv3		Enable SNMP OSPFv3 traps
<i>tag</i>	(Optional)	Process tag

Command Mode

- /exec/configure

snmp-server enable traps ospfv3 lsa

[no] snmp-server enable traps ospfv3 [<tag>] lsa

Syntax Description

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
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

Syntax Description	no	Negate a command or set its defaults
snmp-server	Configure snmp server	
enable	Enable SNMP Traps	
traps	Enable SNMP traps	
ospfv3	Enable SNMP OSPFv3 traps	
<i>tag</i>	(Optional) Process tag	
rate-limit	Trap rate limit values	
<i>swindow</i>	Rate limit window size in seconds	
<i>rate</i>	Max number of traps sent in window time	
<i>tag</i>	(Optional)	

Command Mode

- /exec/configure

snmp-server enable traps storm-control trap-rate

[no] snmp-server enable traps storm-control trap-rate <rate-per-minute>

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
snmp-server		Configure snmp server
enable		Enable SNMP Traps
traps		Enable SNMP traps
storm-control		Enable storm-control traps
trap-rate		Number of traps per minute
<i>rate-per-minute</i>		per Minute (0 means no upper rate)

Command Mode

- /exec/configure

snmp-server force-unload-feature

```
snmp-server force-unload-feature <feature_name>
```

Syntax Description

Syntax Description

snmp-server	Configure snmp server
force-unload-feature	unload mibs of conditional feature forcefully
<i>feature_name</i>	conditional feature name

Command Mode

- /exec/configure

snmp-server globalEnforcePriv

[no] snmp-server globalEnforcePriv

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
globalEnforcePriv	globally enforce privacy for all the users

Command Mode

- /exec/configure

snmp-server host

```
[no] snmp-server host <host0> { <s6> | [ informs | traps ] } { { version { 1 <s0> | 2c <s1> | 3 { auth <s2> | noauth <s3> | priv <s4> } } } | <s5> } } [ udp-port <i1> ]
```

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
host	Specify hosts to receive SNMP notifications
<i>host0</i>	IPv4 or IPv6 address or DNS Name of SNMP notification host
informs	(Optional) Send Inform messages to this host
traps	(Optional) Send Traps messages to this host
version	SNMP version to use for notification messages
1	Use SNMPv1
<i>s0</i>	SNMP community string or SNMPv3 user name
udp-port	(Optional) The notification host's UDP port number
<i>i1</i>	(Optional) The notification host's UDP port number
2c	Use SNMPv2c
<i>s1</i>	SNMP community string or SNMPv3 user name
3	Use SNMPv3
auth	Use the SNMPv3 authNoPriv Security Level
<i>s2</i>	SNMP community string or SNMPv3 user name
noauth	Use the SNMPv3 noAuthNoPriv Security Level
<i>s3</i>	SNMP community string or SNMPv3 user name
priv	Use the SNMPv3 authPriv Security Level
<i>s4</i>	SNMP community string or SNMPv3 user name
<i>s5</i>	SNMP community string or SNMPv3 user name
<i>s6</i>	SNMP community string or SNMPv3 user name

Command Mode

- /exec/configure

snmp-server host filter-vrf

[no] snmp-server host <host0> filter-vrf { <vrf-name> | <vrf-known-name> } [udp-port <i1>]

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
snmp-server		Configure snmp server
host		Specify hosts to receive SNMP notifications
<i>host0</i>		IPv4 or IPv6 address or DNS Name of SNMP notification host
filter-vrf		Filters notifications to the notification host receiver based on the configured VRF
<i>vrf-name</i>		VRF name
<i>vrf-known-name</i>	Known	VRF name
udp-port	(Optional)	The notification host's UDP port number
<i>i1</i>	(Optional)	The notification host's UDP port number

Command Mode

- /exec/configure

snmp-server host source

```
[no] snmp-server host <host0> { source-interface <ifName> } [ udp-port <i1> ]
```

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
snmp-server		Configure snmp server
host		Specify hosts to send SNMP notifications
<i>host0</i>		IPv4 or IPv6 address or DNS Name of SNMP notification host
source-interface		Source interface to be used for sending out SNMP notifications to this host
<i>ifName</i>		Source interface name
udp-port	(Optional)	The notification host's UDP port number
<i>i1</i>	(Optional)	The notification host's UDP port number

Command Mode

- /exec/configure

snmp-server host use-vrf

[no] snmp-server host <host0> use-vrf { <vrf-name> | <vrf-known-name> } [udp-port <i1>]

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
snmp-server		Configure snmp server
host		Specify hosts to receive SNMP notifications
<i>host0</i>		IPv4 or IPv6 address or DNS Name of SNMP notification host
use-vrf		Configures SNMP to use the selected VRF to communicate with the host receiver
<i>vrf-name</i>		VRF name
<i>vrf-known-name</i>	Known	VRF name
udp-port	(Optional)	The notification host's UDP port number
<i>i1</i>	(Optional)	The notification host's UDP port number

Command Mode

- /exec/configure

snmp-server host use_vrf

```
[no] snmp-server host <host0> { use_vrf <s0> | filter_vrf <s1> } [ udp-port <i1> ]
```

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
host	Specify hosts to receive SNMP notifications
<i>host0</i>	IPv4 or IPv6 address or DNS Name of SNMP notification host
use_vrf	Configures SNMP to use the selected VRF to communicate with the host receiver
<i>s0</i>	VRF name
filter_vrf	Filters notifications to the notification host receiver based on the configured VRF
<i>s1</i>	VRF name
udp-port	(Optional) The notification host's UDP port number
<i>i1</i>	(Optional) The notification host's UDP port number

Command Mode

- /exec/configure

snmp-server load-cond-feature

[no] snmp-server load-cond-feature <feature_name>

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	snmp-server	Configure snmp server
	load-cond-feature	load or unload mibs of conditional feature
	<i>feature_name</i>	conditional feature name

Command Mode

- /exec/configure

snmp-server load-mib

[no] snmp-server load-mib <mib_name>

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	snmp-server	Configure snmp server
	load-mib	load a given mib
	<i>mib_name</i>	mib module name

Command Mode

- /exec/configure

snmp-server location

[no] snmp-server location [<line>]

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
location	modify sysLocation
<i>line</i>	(Optional) modify sysLocation

Command Mode

- /exec/configure

snmp-server mib community-map context

[no] snmp-server mib community-map <community_name> context <context_name>

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
snmp-server		Configure snmp server
mib		mib access parameters
community-map		SNMP community
<i>community_name</i>		SNMP community string
context		SNMP context to be mapped
<i>context_name</i>		name of the SNMP context

Command Mode

- /exec/configure

snmp-server mib mpls vpn max-threshold

[no] snmp-server mib mpls vpn max-threshold <time>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
snmp-server	Modify non engine SNMP parameters
mib	MIB commands
mpls	Configurations for MPLS mibs
vpn	Config special SNMP MPLS VPN objects
max-threshold	Config to control MPLS-VPN max threshold exceeded traps
<i>time</i>	Seconds before re-issuing maximum threshold trap

Command Mode

- /exec/configure

snmp-server protocol enable

[no] snmp-server protocol enable

Syntax Description

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

Syntax Description	
no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
source-interface	Source interface to be used for sending out SNMP notifications
<i>ifName</i>	Source interface name
informs	SNMP Inform notifications for which this source interface needs to be used

Command Mode

- /exec/configure

snmp-server source-interface traps

[no] snmp-server source-interface { traps } <ifName>

Syntax Description

Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
source-interface	Source interface to be used for sending out SNMP notifications
<i>ifName</i>	Source interface name
traps	SNMP Trap notifications for which this source interface needs to be used

Command Mode

- /exec/configure

snmp-server system-shutdown

[no] snmp-server system-shutdown

Syntax Description

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

Syntax Description	no	(Optional) Negate a command or set its defaults
	snmp-server	Configure snmp server
	tcp-session	Enable one time authentication for snmp over tcp session.
	auth	(Optional) Enable one time authentication for snmp over tcp session.

Command Mode

- /exec/configure

snmp-server user

```
{ no snmp-server user <user_name> { use-ipv4acl [ <ipv4_acl_name> ] use-ipv6acl [ <ipv6_acl_name> ] |
use-ipv4acl [ <ipv4_acl_name> ] | use-ipv6acl [ <ipv6_acl_name> ] } | snmp-server user <user_name> {
use-ipv4acl <ipv4_acl_name> use-ipv6acl <ipv6_acl_name> | use-ipv4acl <ipv4_acl_name> | use-ipv6acl
<ipv6_acl_name> } }
```

Syntax Description

Syntax Description

no	Negate a command or set its defaults
snmp-server	Configure snmp server
user	Define a user who can access the SNMP engine
<i>user_name</i>	Name of the user
use-ipv4acl	Specify IPv4 ACL, the ACL name specified after must be IPv4 ACL.
<i>ipv4_acl_name</i>	(Optional) IPv4 ACL name to filter snmp requests
use-ipv6acl	Specify IPv6 ACL, the ACL name specified after must be IPv6 ACL.
<i>ipv6_acl_name</i>	(Optional) IPv6 ACL name to filter snmp requests

Command Mode

- /exec/configure

snmp-server user

```
[no] snmp-server user <s0> { enforcePriv | [ [ <s1> ] { [ auth { md5 | sha } <s2> { { priv [ aes-128 ] { {s3>
[ localizedkey ] [ { auto | engineID <s4> } ] } } ] [ localizedkey1 ] [ { auto1 | engineID1 <s5> } ] } ] } }
}
```

Syntax Description

Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
user	Define a user who can access the SNMP engine
s0	Name of the user
enforcePriv	Enforce privacy for the user
s1	(Optional) Group name (ignored for notif target user)
auth	(Optional) authentication parameters for the user
md5	(Optional) Use HMAC MD5 algorithm for authentication
sha	(Optional) Use HMAC SHA algorithm for authentication
s2	(Optional) authentication password for user
priv	(Optional) encryption parameters for the user
aes-128	(Optional) Use 128-bit AES algorithm for privacy
s3	(Optional) privacy password for user
localizedkey	(Optional) specifies whether the passwords are in localized key format
auto	(Optional) specifies whether the user is auto created (volatile)
engineID	(Optional) engineID for configuring notif target user (for V3 informs)
s4	(Optional) specifies notification target's SNMP engineID(colon separated)
localizedkey1	(Optional) specifies whether the passwords are in localized key format
auto1	(Optional) specifies whether the user is auto created (volatile)
engineID1	(Optional) engineID for configuring notif target user (for V3 informs)
s5	(Optional) specifies notification target's SNMP engineID(colon separated)

Command Mode

- /exec/configure

snmp-trap event-type policy-name

```
snmp-trap [ intdata1 <integer-data1> ] [ intdata2 <integer-data2> ] [ strdata <string-data> ] event-type <ev_type>
policy-name <name>
```

Syntax Description

Syntax Description	
snmp-trap	Send
intdata1	(Optional) Enter
<i>integer-data1</i>	(Optional) Integer
intdata2	(Optional) Enter
<i>integer-data2</i>	(Optional) Integer
strdata	(Optional) Enter
<i>string-data</i>	(Optional) String
event-type	Event type
<i>ev_type</i>	Event type
policy-name	Policy Name
<i>name</i>	Policy Name

Command Mode

- /exec

snmp ifmib ifalias long

[no] snmp ifmib ifalias long

Syntax Description

Syntax Description

no (Optional) Negate a command or set its defaults

snmp Configure snmp

ifmib Configure snmp interface mib feature

ifalias Configure snmp interface alias attribute for interface mib

long Enable long description up to 256 characters for interface alias

Command Mode

- /exec/configure

snmp trap link-status

snmp trap link-status | no snmp trap link-status

Syntax Description

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

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

Syntax Description	
snmp	Modify SNMP interface parameters
trap	Allow a specific SNMP trap
link-status	Allow SNMP LINKUP and LINKDOWN traps

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-base /exec/configure/if-port-channel /exec/configure/if-port-channel-range

snmp trap link-status

[no] snmp trap link-status

Syntax Description

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

Syntax Description		
no		Negate a command or set its defaults
snmp		Modify SNMP interface parameters
trap		Allow a specific SNMP trap
link-status		Allow SNMP LINKUP and LINKDOWN traps

Command Mode

- /exec/configure/if-mgmt-ether

snmp trap link-status

snmp trap link-status | no snmp trap link-status

Syntax Description

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

snsr-grp sample-interval

[no] snsr-grp <sn-grp-id> sample-interval <cadence>

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	snsr-grp	Associated sensor group
	sample-interval	Cadence Time in milliseconds(0 for events)

Command Mode

- /exec/configure/telemetry/subscription

sockets internal event-history size

[no] sockets internal event-history { errors | setup | ha | event | proto | log } size { <size_in_text> | <size_in_Kbytes> }

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
sockets	Display sockets status and configuration	
internal	Commands for internal use	
event-history	various event logs of sockets	
errors	error logs of sockets	
setup	setup debug message of sockets	
ha	ha debug message of sockets	
event	events/pcb debug message of sockets	
proto	tcp/udp/raw ip debug message of sockets	
log	syslog message of sockets	
size	Configure the size of the event-hist buffer	
<i>size_in_text</i>	Buffer size	
<i>size_in_Kbytes</i>	Size of the file in kbytes	

Command Mode

- /exec

sockets local-port-range

{ { no sockets local-port-range } | { sockets local-port-range <start-port> <end-port> } }

Syntax Description

Syntax Description		
<i>no</i>		Negate a command or set its defaults
<i>sockets</i>		Negate a command or set its defaults
<i>local-port-range</i>		Define local port range for Kstack. Note: This CLI requires switch to be reloaded
<i>start-port</i>		Start port of local port range
<i>end-port</i>		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

Syntax Description	no	Negate a command or set its defaults
	default	Inherit values from a peer template
	soft-reconfiguration	Soft reconfiguration
	inbound	Allow inbound soft reconfiguration
	always	(Optional) Always perform inbound soft reconfiguration

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af
/exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-l2vpn-evpn
/exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-label
/exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv6-label

soft-reconfiguration inbound

{ soft-reconfiguration inbound [always] } | { no soft-reconfiguration inbound } | { default soft-reconfiguration inbound }

Syntax Description

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

Syntax Description	no	(Optional) Negate a command or set its defaults
	default	Inherit values from a peer template
	soo	Specify Site-of-origin extcommunity
	auto	Generate SOO automatically
	<i>ext-comm-soo-aa4nn2</i>	VPN extcommunity in aa4:nn or ip:nn format
	<i>ext-comm-soo-aa2nn4</i>	VPN extcommunity in aa:nn format

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af
- /exec/configure/router-bgp/router-bgp-vrf-neighbor/router-bgp-vrf-neighbor-af-ipv4
- /exec/configure/router-bgp/router-bgp-vrf-neighbor/router-bgp-vrf-neighbor-af-ipv6

sort

| sort [-b | -d | -f | -g | -i | -M | -n | -r | -k <key> | -t <delim> | -u] +

Syntax Description

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-group

[no] source-group <source> <group>

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	source-group	Source Group
	<i>source</i>	Configure source address
	<i>group</i>	Configure group address

Command Mode

- /exec/configure/if-nve

source-interface

[no] source-interface | source-interface <interface>

Syntax Description

Syntax Description	
<i>no</i>	Negate a command or set its defaults
<i>source-interface</i>	Source interface to be used to reach radius server
<i>interface</i>	Interface (default is mgmt)

Command Mode

- /exec/configure/radius

source-interface

[no] source-interface | source-interface <interface>

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
source-interface	Source interface to be used to reach tacacs server
<i>interface</i>	Interface (default is mgmt)

Command Mode

- /exec/configure/tacacs+

source-interface

source-interface <interface> | no source-interface

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	source-interface	NVE Source-Interface
	<i>interface</i>	

Command Mode

- /exec/configure/if-nve

source-interface hold-down-time

[no] source-interface hold-down-time <sec>

Syntax Description

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 { <ipaddr> } | no source

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	source	source of tunnel packets
	<i>ipaddr</i>	ip address (A.B.C.D)

Command Mode

- /exec/configure/if-te

source

{ [no] source <intf> | no source }

Syntax Description

Syntax Description	<code>source</code> Source Interface for this destination
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<code>intf</code>	Interface
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Command Mode

- /exec/configure/nfm-exporter

source

source <srcip> | no source

Syntax Description

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

source [background] <file> [<args>] +

Syntax Description

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

| source <file> [<args>] +

Syntax Description

Syntax Description

| Pipe command output to filter

source run a script (python, tcl,...) from bootflash:scripts

file the script file to run

args (Optional) argument to be passed to script

Command Mode

- /output

source copy-sys

source copy-sys

Syntax Description

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

spanning-tree bpdudfilter

spanning-tree bpdudfilter <port-bpdudfilter> | no spanning-tree bpdudfilter [<port-bpdudfilter>]

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
bpdudfilter	Don't send or receive BPDUs on this interface
<i>port-bpdudfilter</i>	Don't send or receive BPDUs on this interface

Command Mode

- /exec/configure/if-switching /exec/configure/if-ethernet-switch-m

spanning-tree bpduguard

spanning-tree bpduguard <port-bpduguard> | no spanning-tree bpduguard [<port-bpduguard>]

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
spanning-tree		Spanning Tree Subsystem
bpduguard		Don't accept BPDUs on this interface
<i>port-bpduguard</i>		Don't accept BPDUs on this interface

Command Mode

- /exec/configure/if-switching /exec/configure/if-ethernet-switch-m

spanning-tree bridge-domain

[no] spanning-tree bridge-domain <bd-id>

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	spanning-tree	Spanning Tree Subsystem
	bridge-domain	Bridge-Domain Switch Spanning Trees
	<i>bd-id</i>	Bridge-Domain range, Example: 2,4-5,7,9-11

Command Mode

- /exec/configure

spanning-tree bridge assurance

[no] spanning-tree bridge assurance

Syntax Description

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

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

Syntax Description	
no	(Optional) Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
vlan	(Optional) VLAN Switch Spanning Trees
bridge-domain	(Optional) Bridge-Domain Switch Spanning Trees
<i>vlan-id</i>	(Optional) vlan range, Example: 1,3-5,7,9-11
<i>bd-id</i>	(Optional) Bridge-Domain range, Example: 2,4-5,7,9-11
cost	Change an interface's spanning tree port path cost
auto	Determine cost based on media speed of this interface

Command Mode

- /exec/configure/if-switching /exec/configure/if-ethernet-switch-m

spanning-tree fcoe

[no] spanning-tree fcoe

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
fcoe	Enable STP for FCoE VLANs

Command Mode

- /exec/configure

spanning-tree guard

spanning-tree guard <guard-type> | no spanning-tree guard [<guard-type>]

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
spanning-tree		Spanning Tree Subsystem
guard		Change an interface's spanning tree guard mode
<i>guard-type</i>		Change an interface's spanning tree guard mode

Command Mode

- /exec/configure/if-switching /exec/configure/if-ethernet-switch-m

spanning-tree lc-issu

spanning-tree lc-issu <issu-type> | no spanning-tree lc-issu [<issu-type>]

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	spanning-tree	Spanning Tree Subsystem
	lc-issu	Configure Linecard ISSU type
	<i>issu-type</i>	ISSU Type

Command Mode

- /exec/configure

spanning-tree lc-issu

spanning-tree lc-issu <port-issu-type> | no spanning-tree lc-issu [<port-issu-type>]

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
spanning-tree		Spanning Tree Subsystem
lc-issu		Configure Linecard ISSU type
<i>port-issu-type</i>		ISSU Type

Command Mode

- /exec/configure/if-switching /exec/configure/if-ethernet-switch-m

spanning-tree link-type

spanning-tree link-type <link-type-val> | no spanning-tree link-type [<link-type-val>]

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	spanning-tree	Spanning Tree Subsystem
	link-type	Specify a link type for spanning tree protocol use
	<i>link-type-val</i>	Specify a link type for spanning 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

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

Syntax Description		
no		Negate a command or set its defaults
spanning-tree		Spanning Tree Subsystem
mode		Spanning Tree operating mode
<i>stp-mode</i>		Spanning Tree operating mode

Command Mode

- /exec/configure

spanning-tree mst configuration

spanning-tree mst configuration

Syntax Description

Syntax Description

spanning-tree Spanning Tree Subsystem

mst Multiple spanning tree configuration

configuration Enter MST configuration submode

Command Mode

- /exec/configure

spanning-tree mst configuration

[no] spanning-tree mst configuration

Syntax Description

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

Syntax Description		
no		Negate a command or set its defaults
spanning-tree		Spanning Tree Subsystem
mst		Multiple spanning tree
<i>mst-id</i>		MST instance list, example 0,2-4,6,8-12
cost		Change an interface's spanning tree port path cost
<i>port-cost</i>		port path cost

Command Mode

- /exec/configure/if-switching /exec/configure/if-ethernet-switch-m

spanning-tree mst cost auto

[no] spanning-tree mst <mst-id> cost auto

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
mst	Multiple spanning tree
<i>mst-id</i>	MST instance list, example 0,2-4,6,8-12
cost	Change an interface's spanning tree port path cost
auto	Determine cost based on media speed of this interface

Command Mode

- /exec/configure/if-switching /exec/configure/if-ethernet-switch-m

spanning-tree mst forward-time

spanning-tree mst forward-time <fwd-time> | no spanning-tree mst forward-time [<fwd-time>]

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
spanning-tree		Spanning Tree Subsystem
mst		Multiple spanning tree configuration
forward-time		Set the forward delay for the spanning tree
<i>fwd-time</i>		number of seconds for the forward delay timer

Command Mode

- /exec/configure

spanning-tree mst hello-time

spanning-tree mst hello-time <hello-time-val> | no spanning-tree mst hello-time [<hello-time-val>]

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	spanning-tree	Spanning Tree Subsystem
	mst	Multiple spanning tree configuration
	hello-time	Set the hello interval for the spanning tree
	<i>hello-time-val</i>	number of seconds between generation of config bpdu

Command Mode

- /exec/configure

spanning-tree mst max-age

spanning-tree mst max-age <max-age-val> | no spanning-tree mst max-age [<max-age-val>]

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
spanning-tree		Spanning Tree Subsystem
mst		Multiple spanning tree configuration
max-age		Set the max age interval for the spanning tree
<i>max-age-val</i>		maximum number of seconds the information in a bpdu is valid

Command Mode

- /exec/configure

spanning-tree mst max-hops

spanning-tree mst max-hops <max-hops-val> | no spanning-tree mst max-hops [<max-hops-val>]

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	spanning-tree	Spanning Tree Subsystem
	mst	Multiple spanning tree configuration
	max-hops	Set the max hops value for the spanning tree
	<i>max-hops-val</i>	maximum number of hops a BPDU is valid

Command Mode

- /exec/configure

spanning-tree mst port-priority

spanning-tree mst <mst-id> port-priority <port-prio> | no spanning-tree mst <mst-id> port-priority [<port-prio>]

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
spanning-tree		Spanning Tree Subsystem
mst		Multiple spanning tree
<i>mst-id</i>		MST instance list, example 0,2-4,6,8-12
port-priority		Change an interface's spanning tree port priority
<i>port-prio</i>		Spanning-tree port priority

Command Mode

- /exec/configure/if-switching /exec/configure/if-ethernet-switch-m

spanning-tree mst pre-standard

[no] spanning-tree mst pre-standard

Syntax Description

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

Syntax Description		
no		Negate a command or set its defaults
spanning-tree		Spanning Tree Subsystem
mst		Multiple spanning tree configuration
<i>mst-id</i>		MST instance range, example: 0-3,5,7-9
priority		Set the bridge priority for the spanning tree
<i>prio</i>		bridge priority in increments of 4096

Command Mode

- /exec/configure

spanning-tree mst root

```
spanning-tree mst <mst-id> root <root-type> [ diameter <diameter-val> [ hello-time <hello-time-val> ] ] | no
spanning-tree mst <mst-id> root [ <root-type> [ diameter <diameter-val> [ hello-time <hello-time-val> ] ] ]
```

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
mst	Multiple spanning tree configuration
<i>mst-id</i>	MST instance range, example: 0-3,5,7-9
diameter	(Optional) Network diameter of this spanning tree
<i>diameter-val</i>	(Optional) Maximum number of bridges between any two end nodes
root	configure switch as root
<i>root-type</i>	configure switch as root
hello-time	(Optional) Set the hello interval for the spanning tree
<i>hello-time-val</i>	(Optional) number of seconds between generation of config bpdu

Command Mode

- /exec/configure

spanning-tree mst simulate pvst

[no] spanning-tree mst simulate pvst [<simpvst-disable>]

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
spanning-tree		Spanning Tree Subsystem
mst		Multiple spanning tree
simulate		Enable spanning tree simulation
pvst		Enable PVST simulation
<i>simpvst-disable</i>	(Optional)	Disable PVST simulation on this interface

Command Mode

- /exec/configure/if-switching /exec/configure/if-ethernet-switch-m

spanning-tree mst simulate pvst global

[no] spanning-tree mst simulate pvst global

Syntax Description

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

Syntax Description		
no		Negate a command or set its defaults
spanning-tree		Spanning Tree Subsystem
pathcost		Spanning tree pathcost options
method		Method to calculate default port path cost
<i>method-val</i>		Method to calculate default port path cost

Command Mode

- /exec/configure

spanning-tree port-priority

spanning-tree [vlan <vlan-id> | bridge-domain <bd-id>] port-priority <port-prio> | no spanning-tree [vlan <vlan-id> | bridge-domain <bd-id>] port-priority [<port-prio>]

Syntax Description

Syntax Description

no	Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
vlan	(Optional) VLAN Switch Spanning Trees
bridge-domain	(Optional) Bridge-Domain Switch Spanning Trees
<i>vlan-id</i>	(Optional) vlan range, Example: 1,3-5,7,9-11
<i>bd-id</i>	(Optional) Bridge-Domain range, Example: 2,4-5,7,9-11
port-priority	Change an interface's spanning tree port priority
<i>port-prio</i>	Spanning-tree port priority

Command Mode

- /exec/configure/if-switching /exec/configure/if-ethernet-switch-m

spanning-tree port type

spanning-tree port type <port-type> | no spanning-tree port type [<port-type>]

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
spanning-tree		Spanning Tree Subsystem
port		Spanning tree port options
type		Specify a port type for spanning tree protocol use
<i>port-type</i>		Specify a port type for spanning tree protocol use

Command Mode

- /exec/configure/if-switching /exec/configure/if-ethernet-switch-m

spanning-tree port type edge bpdufilter default

[no] spanning-tree port type edge bpdufilter default

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
port	Spanning tree port options
type	Specify a port type for spanning tree protocol use
edge	Consider the interface as edge port (enable portfast)
bpdufilter	Enable edge port (portfast) bpdu filter on this switch
default	Enable bdpu filter by default on all edge (portfast) ports

Command Mode

- /exec/configure

spanning-tree port type edge bpduguard default

[no] spanning-tree port type edge bpduguard default

Syntax Description

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) bpu guard on this switch
default	Enable bpu guard by default on all edge (portfast) ports

Command Mode

- /exec/configure

spanning-tree port type edge default

[no] spanning-tree port type edge default

Syntax Description

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

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

Syntax Description	
no	(Optional) Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
port	Spanning tree port options
type	Specify a port type for spanning tree protocol use
network	Consider the interface as inter-switch link
default	Select network port type by default on all ports

Command Mode

- /exec/configure

spanning-tree portfast

spanning-tree portfast [<port-portfast>] | no spanning-tree portfast [<port-portfast>]

Syntax Description

Syntax Description

no	Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
portfast	Enable an interface to move directly to fwd on link up
<i>port-portfast</i>	(Optional) Enable an interface to move directly to fwd on link up

Command Mode

- /exec/configure/if-switching /exec/configure/if-ethernet-switch-m

spanning-tree portfast bpdufilter default

[no] spanning-tree portfast bpdufilter default

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
portfast	Enable an interface to move directly to fwd on link up
bpdufilter	Enable portfast bpdu filter on this switch
default	Enable bdpu filter by default on all portfast ports

Command Mode

- /exec/configure

spanning-tree portfast bpduguard default

[no] spanning-tree portfast bpduguard default

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
portfast	Enable an interface to move directly to fwd on link up
bpduguard	Enable portfast bpdu guard on this switch
default	Enable bdpu guard by default on all portfast ports

Command Mode

- /exec/configure

spanning-tree portfast default

[no] spanning-tree portfast default

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
portfast	Enable an interface to move directly to fwd on link up
default	Enable portfast by default on all access ports

Command Mode

- /exec/configure

spanning-tree pseudo-information

spanning-tree pseudo-information

Syntax Description

Syntax Description

spanning-tree	Spanning Tree Subsystem
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pseudo-information	configure spanning tree pseudo information
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Command Mode

- /exec/configure

spanning-tree vlan

[no] spanning-tree vlan <vlan-id>

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	spanning-tree	Spanning Tree Subsystem
	vlan	VLAN Switch Spanning Trees
	<i>vlan-id</i>	vlan range, Example: 1,3-5,7,9-11

Command Mode

- /exec/configure

spanning-tree vlan forward-time

spanning-tree { vlan <vlan-id> | bridge-domain <bd-id> } forward-time <fwd-time> | no spanning-tree { vlan <vlan-id> | bridge-domain <bd-id> } forward-time [<fwd-time>]

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
spanning-tree		Spanning Tree Subsystem
vlan		VLAN Switch Spanning Trees
bridge-domain		Bridge-Domain Switch Spanning Trees
<i>vlan-id</i>		vlan range, Example: 1,3-5,7,9-11
<i>bd-id</i>		Bridge-Domain range, Example: 2,4-5,7,9-11
forward-time		Set the forward delay for the spanning tree
<i>fwd-time</i>		number of seconds for the forward delay timer

Command Mode

- /exec/configure

spanning-tree vlan hello-time

```
spanning-tree { vlan <vlan-id> | bridge-domain <bd-id> } hello-time <hello-time-val> | no spanning-tree {
vlan <vlan-id> | bridge-domain <bd-id> } hello-time [ <hello-time-val> ]
```

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
vlan	VLAN Switch Spanning Trees
bridge-domain	Bridge-Domain Switch Spanning Trees
<i>vlan-id</i>	vlan range, Example: 1,3-5,7,9-11
<i>bd-id</i>	Bridge-Domain range, Example: 2,4-5,7,9-11
hello-time	Set the hello interval for the spanning tree
<i>hello-time-val</i>	number of seconds between generation of config bpdu

Command Mode

- /exec/configure

spanning-tree vlan max-age

spanning-tree { vlan <vlan-id> | bridge-domain <bd-id> } max-age <max-age-val> | no spanning-tree { vlan <vlan-id> | bridge-domain <bd-id> } max-age [<max-age-val>]

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
spanning-tree		Spanning Tree Subsystem
vlan		VLAN Switch Spanning Trees
bridge-domain		Bridge-Domain Switch Spanning Trees
<i>vlan-id</i>		vlan range, Example: 1,3-5,7,9-11
<i>bd-id</i>		Bridge-Domain range, Example: 2,4-5,7,9-11
max-age		Set the max age interval for the spanning tree
<i>max-age-val</i>		maximum number of seconds the information in a bpdu is valid

Command Mode

- /exec/configure

spanning-tree vlan priority

```
spanning-tree { vlan <vlan-id> | bridge-domain <bd-id> } priority <prio> | no spanning-tree { vlan <vlan-id>
| bridge-domain <bd-id> } priority [ <prio> ]
```

Syntax Description

Syntax Description	
<i>no</i>	Negate a command or set its defaults
<i>spanning-tree</i>	Spanning Tree Subsystem
<i>vlan</i>	VLAN Switch Spanning Trees
<i>bridge-domain</i>	Bridge-Domain Switch Spanning Trees
<i>vlan-id</i>	vlan range, Example: 1,3-5,7,9-11
<i>bd-id</i>	Bridge-Domain range, Example: 2,4-5,7,9-11
<i>priority</i>	Set the bridge priority for the spanning tree
<i>prio</i>	bridge priority in increments of 4096

Command Mode

- /exec/configure

spanning-tree vlan root

```
spanning-tree { vlan <vlan-id> | bridge-domain <bd-id> } root <root-type> [ diameter <diameter-val> [
hello-time <hello-time-val> ] ] | no spanning-tree { vlan <vlan-id> | bridge-domain <bd-id> } root [ <root-type>
[ diameter <diameter-val> [ hello-time <hello-time-val> ] ] ]
```

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
vlan	VLAN Switch Spanning Trees
bridge-domain	Bridge-Domain Switch Spanning Trees
<i>vlan-id</i>	vlan range, Example: 1,3-5,7,9-11
<i>bd-id</i>	Bridge-Domain range, Example: 2,4-5,7,9-11
diameter	(Optional) Network diameter of this spanning tree
<i>diameter-val</i>	(Optional) Maximum number of bridges between any two end nodes
root	configure switch as root
<i>root-type</i>	configure switch as root
hello-time	(Optional) Set the hello interval for the spanning tree
<i>hello-time-val</i>	(Optional) number of seconds between generation of config bpdu

Command Mode

- /exec/configure

speed-group

speed-group <gspeed_val> | no speed-group [<gspeed_val>]

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	speed-group	port group speed
	<i>gspeed_val</i>	Interface port speed

Command Mode

- /exec/configure/if-eth-base

speed

[no] speed <i0>

Syntax Description

Syntax Description	<i>no</i> (Optional) Negate a command or set its defaults
	<i>speed</i> Set the transmit and receive speeds
	<i>i0</i> Transmit and receive speeds

Command Mode

- /exec/configure/com1

speed

[no] speed <i0>

Syntax Description

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

Syntax Description

speed	Enter the port speed
-------	----------------------

<i>speed_val</i>	Interface port speed
------------------	----------------------

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-non-member /exec/configure/if-port-channel

speed

speed { <speed_val> }

Syntax Description

Syntax Description

speed	Enter the port speed
-------	----------------------

<i>speed_val</i>	Interface port speed
------------------	----------------------

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-non-member /exec/configure/if-port-channel

speed

```
[no] speed [ { <speed_val> | auto [ 100 [ 1000 ] ] } ]
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
speed		Enter the port speed
<i>speed_val</i>	(Optional)	Interface port speed
auto	(Optional)	auto negotiate speed
100	(Optional)	100 Mbps speed
1000	(Optional)	1000 Mbps speed

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-non-member /exec/configure/if-port-channel

speed

```
[no] speed [ { <speed_val> | auto [ 100 [ 1000 ] ] } ]
```

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
speed	Enter the port speed
<i>speed_val</i>	(Optional) Interface port speed
auto	(Optional) auto negotiate speed
100	(Optional) 100 Mbps speed
1000	(Optional) 1000 Mbps speed

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-non-member /exec/configure/if-port-channel

speed

```
speed { <speed_val> }
```

Syntax Description

Syntax Description

speed	Enter the port speed
-------	----------------------

<i>speed_val</i>	Interface port speed
------------------	----------------------

Command Mode

- /exec/configure/if-mgmt-ether

speed

```
[no] speed [ { <speed_val> | auto [ 100 [ 1000 ] ] } ]
```

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
speed	Enter the port speed
<i>speed_val</i>	(Optional) Interface port speed
auto	(Optional) auto negotiate speed
100	(Optional) 100 Mbps speed
1000	(Optional) 1000 Mbps speed

Command Mode

- /exec/configure/if-mgmt-ether

speed auto

speed auto

Syntax Description

Syntax Description

`speed` Enter the port speed

`auto` auto negotiate speed

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-non-member /exec/configure/if-port-channel

speed auto 100

speed auto 100

Syntax Description

Syntax Description

speed Enter the port speed

auto auto negotiate speed

100 100 Mbps speed

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-non-member /exec/configure/if-port-channel

speed auto 100 1000

```
speed auto 100 1000
```

Syntax Description

Syntax Description

<code>speed</code>	Enter the port speed
--------------------	----------------------

<code>auto</code>	auto negotiate speed
-------------------	----------------------

<code>100</code>	100 Mbps speed
------------------	----------------

<code>1000</code>	1000 Mbps speed
-------------------	-----------------

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-non-member /exec/configure/if-port-channel

speed auto 100 1000

speed auto 100 1000

Syntax Description

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

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

Syntax Description

speed Enter the port speed

auto auto negotiate speed

Command Mode

- /exec/configure/if-mgmt-ether

spf-interval

spf-interval <max-wait> [<initial-wait> <second-wait>] | no spf-interval <max-wait> [<initial-wait> <second-wait>]

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
spf-interval	Configure SPF interval
<i>max-wait</i>	Maximum wait between trigger and SPF computation (milli-secs)
<i>initial-wait</i>	(Optional) Initial wait between trigger and SPF computation (milli-secs)
<i>second-wait</i>	(Optional) Second wait between trigger and SPF computation (milli-secs)

Command Mode

- /exec/configure/otv-isis/otv-isis-vrf-common

spf-interval

spf-interval <level> <max-wait> [<initial-wait> <second-wait>] | no spf-interval <level> <max-wait> [<initial-wait> <second-wait>]

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
spf-interval	Configure SPF interval
<i>level</i>	IS-IS level
<i>max-wait</i>	Maximum wait between trigger and SPF computation (milli-secs)
<i>initial-wait</i>	(Optional) Initial wait between trigger and SPF computation (milli-secs)
<i>second-wait</i>	(Optional) Second wait between trigger and SPF computation (milli-secs)

Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

spf mode incremental

[no] spf mode incremental

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
spf	Configure route computation related settings
mode	Set the mode of spf computation
incremental	If possible, recompute only parts of the SPT

Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

spf mode incremental

[no] spf mode incremental

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
spf	Configure route computation related settings
mode	Set the mode of spf computation
incremental	If possible, recompute only parts of the SPT

Command Mode

- /exec/configure/router-ospf3/router-ospf3-af-ipv6 /exec/configure/router-ospf3/vrf/router-ospf3-af-ipv6

spine-anycast-gateway

[no] spine-anycast-gateway

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	spine-anycast-gateway	Enable Spine-Anycast-Gateway

Command Mode

- /exec/configure/if-nve/vni

sport

{ sport <sval> } | { no sport }

Syntax Description

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

srom recover backplane

srom recover backplane <i0>

Syntax Description

Syntax Description

srom set SPROM contents should be done very carefully

recover SPROM recovery

backplane set backplane module srom contents

i0 please enter instance of backplane srom

Command Mode

- /exec

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

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

Syntax Description

ssh6	SSH to another system using IPv6 addressing
vrf	(Optional) vrf to use
source-ip	(Optional) ip address to bind
source-interface	(Optional) Select source interface
interface	(Optional) interface to bind
s0	Enter hostname or user@hostname
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
s2	(Optional) Enter source ip address to bind
s1	(Optional) Enter interface to bind
intf	(Optional)

Command Mode

- /exec

ssh key dsa

```
{ ssh key { dsa [ force ] | rsa [ { <i0> | <oldrange> } [ force ] ] } | no ssh key [ { dsa [ force ] | rsa [ { <i0> | <oldrange> } [ force ] ] ] }
```

Syntax Description

Syntax Description

no	Negate a command or set its defaults
ssh	SSH to another system
key	Generate SSH Key
dsa	Generate DSA keys
force	(Optional) Force the generation of keys even if previous ones are present
rsa	Generate RSA keys
<i>i0</i>	(Optional) Enter number of bits (in multiples of 8)
<i>oldrange</i>	(Optional) Enter number of bits
force	(Optional) Force the generation of keys even if previous ones are present
force	(Optional) Force the generation of keys even if previous ones are present

Command Mode

- /exec/configure

ssh login-attempts

```
{ { ssh login-attempts <d0> } | { no ssh login-attempts [ <d0> ] } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ssh		SSH to another system
login-attempts		Set maximum login attempts from ssh
<i>d0</i>		Specify max-attempt number

Command Mode

- /exec/configure/

ssh server enable

[no] ssh server enable

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
ssh	Configure SSH parameters
server	Configure SSH Server parameters
enable	Enable SSH server

Command Mode

- /exec/configure

standby

[no] standby [ip <ip-addr-first> | IPv6 <ip-addrv6-first>]

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
standby		Standby node
ip	(Optional)	ip address for standby node
<i>ip-addr-first</i>	(Optional)	ITD node IPv4 address
IPv6	(Optional)	IPv6 address

Command Mode

- /exec/configure/itd-dg-node

standby

[no] standby [ip <ip-addr-first> | IPv6 <ip-addrv6-first>]

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
standby	Standby node
ip	(Optional) ip address for standby node
<i>ip-addr-first</i>	(Optional) ITD node IPv4 address
IPv6	(Optional) IPv6 address

Command Mode

- /exec/configure/itd-dg-node

start

start

Syntax Description

Syntax Description

`start` Start
Trigger

Command Mode

- /exec/elanms/se13

start

start

Syntax Description

Syntax Description

start Start
Trigger

Command Mode

- /exec/eramns/sel4

start

start

Syntax Description

Syntax Description

`start` Start
Trigger

Command Mode

- /exec/elanms/se15

start

start

Syntax Description

Syntax Description

`start` Start
Trigger

Command Mode

- /exec/elanms/sel6

start

start

Syntax Description

Syntax Description

`start` Start
Trigger

Command Mode

- /exec/elanms/sel7

start

start

Syntax Description

Syntax Description

start Start
Trigger

Command Mode

- /exec/elanms/outsel0

start

start

Syntax Description

Syntax Description

`start` Start
Trigger

Command Mode

- /exec/elamns/outsel5

state enabled

[no] state enabled

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
state	Port-profile state
enabled	Enable/ disable the port-profile

Command Mode

- /exec/configure/port-profile

stateful-ha

[no] stateful-ha [test-recovery]

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	stateful-ha	Enable stateful IS-IS HA
	test-recovery	(Optional) Test stateful HA recovery

Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

stateful-ha

[no] stateful-ha [pss-partial-lsp]

Syntax Description

Syntax Description	
stateful-ha	Configure RSVP stateful HA
pss-partial-lsp	(Optional) Enable PSS of partial lsps

Command Mode

- /exec/configure/ip-rsvp

statistics

[no] statistics

Syntax Description

Syntax Description	n (Optional) Negate a command or set its defaults
---------------------------	--

Command Mode

- /exec/configure/ipacl /exec/configure/vacl

statistics

[no] statistics

Syntax Description

Syntax Description

n (Optional) Negate a command or set its defaults

Command Mode

- /exec/configure/ipv6acl

statistics

[no] statistics

Syntax Description

Syntax Description	n (Optional) Negate a command or set its defaults
---------------------------	--

Command Mode

- /exec/configure/macac1

statistics collection-interval

statistics collection-interval <interval-val> | no statistics collection-interval

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
statistics		Statistics related commands
collection-interval		How often to retrieve statistics
<i>interval-val</i>		Collection interval in seconds (0 = do not collect)

Command Mode

- /exec/configure/openflow/switch

statistics per-entry

[no] statistics per-entry

Syntax Description

Syntax Description	n (Optional) Negate a command or set its defaults
---------------------------	--

Command Mode

- /exec/configure/ipacl

statistics per-entry

[no] statistics per-entry

Syntax Description

Syntax Description	n (Optional) Negate a command or set its defaults
---------------------------	--

Command Mode

- /exec/configure/vacli

statistics per-entry

[no] statistics per-entry

Syntax Description

Syntax Description	n (Optional) Negate a command or set its defaults
---------------------------	--

Command Mode

- /exec/configure/ipv6acl

statistics per-entry

[no] statistics per-entry

Syntax Description

Syntax Description	n (Optional) Negate a command or set its defaults
---------------------------	--

Command Mode

- /exec/configure/macac1

status

status

Syntax Description

Syntax Description

status Status of
Trigger

Command Mode

- /exec/elamns/se13

status

status

Syntax Description

Syntax Description

`status` Status of
Trigger

Command Mode

- /exec/elanms/sel4

status

status

Syntax Description

Syntax Description

status Status of
Trigger

Command Mode

- /exec/elamns/se15

status

status

Syntax Description

Syntax Description

`status` Status of
Trigger

Command Mode

- /exec/elanms/sel6

status

status

Syntax Description

Syntax Description

status Status of
Trigger

Command Mode

- /exec/elanms/sel7

status

status

Syntax Description

Syntax Description

`status` Status of
Trigger

Command Mode

- /exec/elanms/outsel0

status

status

Syntax Description

Syntax Description

status Status of
Trigger

Command Mode

- /exec/elanms/outsel5

stopbits 1

[no] stopbits { 1 | 2 }

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
stopbits	Set async line stopbits
1	One stop bit
2	Two stop bits

Command Mode

- /exec/configure/com1

stopbits 1

[no] stopbits { 1 }

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	stopbits	Set async line stopbits
	1	One stop bit

Command Mode

- /exec/configure/console

storm-control

```
storm-control { { { broadcast blevel | multicast mlevel | unicast ulevel } <level> } | action { shutdown | trap } } | no storm-control { { { broadcast blevel | multicast mlevel | unicast ulevel } [ <level> ] } | action [ shutdown | trap ] }
```

Syntax Description

Syntax Description	Description
no	Negate a command or set its defaults
storm-control	Configure Interface storm control
broadcast	Broadcast address storm control
multicast	Multicast address storm control
unicast	Unicast address storm control
blevel	Set allowed broadcast traffic level on this interface
mlevel	Set allowed multicast traffic level on this interface
ulevel	Set allowed unicast traffic level on this interface
<i>level</i>	Enter the storm suppression level
action	Action on storm control
shutdown	Shutdown (Err-Disable) port
trap	Generate SNMP trap

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-l2-non-member /exec/configure/if-eth-port-channel-switch

streetaddress

{ streetaddress <line> | no streetaddress }

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
streetaddress	Configure replacement part shipping address.
<i>line</i>	Provide street address (white spaces are fine)

Command Mode

- /exec/configure/callhome

stub

```
{ { [ eigrp ] stub [ { [ direct | connected | static | summary ] [ redistributed ] } + [ leak-map <leak-map> ] | {
receive-only } ] } } | { no [ eigrp ] stub [ { [ direct | connected | static | summary ] [ redistributed ] } + [ leak-map
<leak-map> ] | { receive-only } ] } }
```

Syntax Description

Syntax Description

no	Negate a command or set its defaults
eigrp	(Optional) EIGRP router configuration commands
stub	Set IP-EIGRP as stubbed router
direct	(Optional) Do advertise connected routes
connected	(Optional) Do advertise connected routes
static	(Optional) Do advertise static routes
summary	(Optional) Do advertise summary routes
redistributed	(Optional) Do advertise redistributed routes
leak-map	(Optional) Allow dynamic prefixes based on the leak-map
<i>leak-map</i>	(Optional) leak-map name
receive-only	(Optional) Set IP-EIGRP as receive only neighbor

Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

sub-switch vlan

sub-switch <subswitch-id> vlan <vlan-id> | no sub-switch <subswitch-id>

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
sub-switch		Logical sub-switch id
<i>subswitch-id</i>		Logical subswitch-id(2 to 10)
vlan		VLAN-id or VLAN-range
<i>vlan-id</i>		VLAN-id or VLAN-range

Command Mode

- /exec/configure/openflow/switch

subscription

[no] subscription <sub-id>

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	subscription	Create a Subscription

Command Mode

- /exec/configure/telemetry

summary-address

[no] summary-address { <ip-dest> <ip-mask> | <ip-prefix> } [tag <tagval> | not-advertise]

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
summary-address		Configure route summarization for redistribution
<i>ip-dest</i>		IP prefix format: i.i.i.i
<i>ip-mask</i>		IP network mask format: m.m.m.m
<i>ip-prefix</i>		IP prefix format: x.x.x.x/ml
tag	(Optional)	32-bit tag value
<i>tagval</i>	(Optional)	32-bit tag value
not-advertise	(Optional)	Supress advertising the specified summary

Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

summary-address

summary-address { <ip-addr> <ip-mask> | <ip-prefix> } <level> | no summary-address { <ip-addr> <ip-mask> | <ip-prefix> } [<level>]

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
summary-address		Configure IP address summaries
<i>ip-addr</i>		IP summary address
<i>ip-mask</i>		IP summary mask
<i>ip-prefix</i>		IP summary prefix
<i>level</i>		Level to summarize into

Command Mode

- /exec/configure/router-isis/router-isis-vrf-common /exec/configure/router-isis/router-isis-af-ipv4

summary-address

summary-address <ipv6-prefix> <level> | no summary-address <ipv6-prefix> [<level>]

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	summary-address	Configure IP address summaries
	<i>level</i>	Level to summarize into

Command Mode

- /exec/configure/router-isis/router-isis-af-ipv6

summary-address

[no] summary-address <ipv6-prefix> [tag <tagval> | not-advertise]

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
summary-address	Configure route summarization for redistribution
tag	(Optional) 32-bit tag value
<i>tagval</i>	(Optional) 32-bit tag value
not-advertise	(Optional) Suppress advertising the specified summary

Command Mode

- /exec/configure/router-ospf3/router-ospf3-af-ipv6 /exec/configure/router-ospf3/vrf/router-ospf3-af-ipv6

suppress-arp

[no] suppress-arp

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
suppress-arp	Enable ARP suppression

Command Mode

- /exec/configure/if-nve/vni

suppress-fib-pending

[no] suppress-fib-pending

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
suppress-fib-pending	Advertise only routes that are programmed in hardware to peers

Command Mode

- /exec/configure/router-bgp

suppress-fib-pending

[no] suppress-fib-pending

Syntax Description

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-igrp/router-igrp-vrf-common /exec/configure/router-igrp/router-igrp-af-common

suppress-inactive

[no] suppress-inactive

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
suppress-inactive	Advertise only active routes to peers

Command Mode

- /exec/configure/router-bgp/router-bgp-af

suppress-inactive

[no | default] suppress-inactive

Syntax Description

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

suppress-signaling-protocol ldp

[no | default] suppress-signaling-protocol ldp

Syntax Description

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

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

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

Syntax Description		
no		Negate a command or set its defaults
switch-priority		Priority of the switch(0-highest 7-lowest)
<i>i0</i>		Priority of the switch(0-highest 7-lowest)

Command Mode

- /exec/configure/callhome

switch-profile

switch-profile <s0>

Syntax Description

Syntax	Description
switch-profile	Enter switch-profile configuration mode
<i>s0</i>	Enter the name of the switch-profile

Command Mode

- /exec/configure

switch-profile

[no] switch-profile <s0> { profile-only { local | all } | local-config | all-config }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
switch-profile		Enter switch-profile configuration mode
s0		Enter the name of the switch-profile
profile-only		Deletion of profile only and no other configuration
local		Deletion of profile only and no other configurations in local switch
all		Deletion of profile only and no other configurations from all the peers
local-config		Deletion of profile and local configuration
all-config		Deletion of profile, local and peer configurations

Command Mode

- /exec/configure

switch-scope controller l2-vxlan

{ switch-scope controller l2-vxlan <controller-id> | no switch-scope controller l2-vxlan }

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	switch-scope	switch-scope
	controller	Controller command
	l2-vxlan	l2-vxlan
	<i>controller-id</i>	Controller id

Command Mode

- /exec

switch pipeline

switch <switch-id> pipeline <pipeline-id> | no switch <switch-id>

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
switch		Switch
<i>switch-id</i>		Logical switch-id
pipeline		Select forwarding profile, use 'show openflow hardware capabilities' for choices
<i>pipeline-id</i>		Pipeline id

Command Mode

- /exec/configure/openflow

switchback

switchback

Syntax Description

Syntax Description	switchback switchback to default vdc
---------------------------	---

Command Mode

- /exec

switching-mode fabric-speed 40g

[no] switching-mode fabric-speed 40g

Syntax Description

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 store-forward

[no] switching-mode store-forward

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
switching-mode	Configure the operating switching-mode of asics
store-forward	Operate in store and forward mode

Command Mode

- /exec/configure

switchport

switchport

Syntax Description

Syntax Description

switchport Configure switchport parameters

Command Mode

- /exec/configure/if-eth-non-member /exec/configure/if-ethernet-all /exec/configure/if-port-channel /exec/configure/if-ethernet-p2p

switchport

[no] switchport

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
switchport	Configure switchport parameters

Command Mode

- /exec/configure/if-ethernet-switch /exec/configure/if-eth-non-member /exec/configure/if-ethernet /exec/configure/if-ethernet-switch /exec/configure/if-ethernet-all /exec/configure/if-port-channel /exec/configure/if-ethernet-p2p

switchport autostate exclude

```
switchport autostate exclude [ vlan { <exclude-vlans> | add <add-vlans> | except <except-vlans> | remove
<remove-vlans> | all | none } ] | no switchport autostate exclude [ dummy ] [ vlan { <exclude-vlans> | add
<add-vlans> } ]
```

Syntax Description

Syntax Description

no	Negate a command or set its defaults
switchport	Configure switchport parameters
autostate	Include or exclude this port from vlan link up calculation
exclude	Exclude this port from vlan link up calculation
vlan	(Optional) VLAN Id
<i>exclude-vlans</i>	(Optional) VLAN IDs of the VLANs to auto-state exclude on this interface
add	(Optional) add VLANs to except list
<i>add-vlans</i>	(Optional) VLAN IDs of the VLANs to auto-state exclude on this interface
except	(Optional) List of VLANs to excepted from auto-state exclude
<i>except-vlans</i>	(Optional) VLAN IDs of the VLANs to auto-state exclude on this interface
remove	(Optional) remove VLANs from except list
<i>remove-vlans</i>	(Optional) VLAN IDs of the VLANs to auto-state exclude on this interface
all	(Optional) Exclude all VLANs
none	(Optional) Exclude no VLANs
dummy	(Optional) Hidden Keyword

Command Mode

- /exec/configure/if-ethernet-switch /exec/configure/if-ethernet-all /exec/configure/if-gig-ether
/exec/configure/if-port-channel-range /exec/configure/if-eth-port-channel-switch
/exec/configure/if-remote-ethernet-switch

switchport block unicast

switchport block { unicast | multicast } | no switchport block { unicast | multicast }

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
switchport	Configure switchport parameters
block	Block specified outbound traffic for all VLANs
unicast	Block unknown unicast traffic
multicast	Block flood multicast traffic

Command Mode

- /exec/configure/if-eth-l2-non-member /exec/configure/if-ethernet-all
/exec/configure/if-eth-port-channel-switch

switchport dot1q etherType

switchport dot1q etherType { 0x8100 | 0x88A8 | 0x9100 | <any> } | no switchport dot1q etherType [<any>]

Syntax Description

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 ethertype

switchport dot1q ethertype { 0x8100 | 0x88A8 | 0x9100 | <any> } | no switchport dot1q ethertype [<any>]

Syntax Description

Syntax Description	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-port-channel-switch

switchport host

[no] switchport host

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
switchport	Configure switchport parameters
host	Set port host

Command Mode

- /exec/configure/if-eth-l2-non-member /exec/configure/if-ethernet-switch
/exec/configure/if-ethernet-switch-m /exec/configure/if-ethernet-all

switchport isolated

[no] switchport isolated

Syntax Description

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 mode

{ switchport mode { <port_mode> } | no switchport mode }

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	switchport	Configure switchport parameters
	mode	Enter the port mode
	<i>port_mode</i>	port mode

Command Mode

- /exec/configure/if-eth-l2-non-member /exec/configure/if-ethernet-all
/exec/configure/if-eth-port-channel-switch

switchport mode

{ switchport mode { <port_mode> } | no switchport mode }

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	switchport	Configure switchport parameters
	mode	Enter the port mode
	<i>port_mode</i>	port mode

Command Mode

- /exec/configure/if-eth-l2-non-member /exec/configure/if-ethernet-all
/exec/configure/if-eth-port-channel-switch

switchport mode fabricpath

[no] switchport mode fabricpath

Syntax Description

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

Syntax Description	
no	Negate a command or set its defaults
switchport	Configure switchport parameters
mode	Enter the port mode
monitor	Configures an interface as span-destination
buffer-limit	Set buffer limit for span destination
<i>value</i>	Limit in terms of packets
packets	(Optional) Packets
bytes	(Optional) Bytes
kbytes	(Optional) Kilo bytes
mbytes	(Optional) Mega bytes

Command Mode

- /exec/configure/if-eth-l2-non-member /exec/configure/if-ethernet-all /exec/configure/if-eth-port-channel-switch

switchport mode private-vlan

{ switchport mode private-vlan <pvlan_mode> } | { no switchport mode private-vlan [<pvlan_mode>] }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
switchport		Configure switchport parameters
mode		Enter the port mode
private-vlan		Set the private VLAN configuration
<i>pvlan_mode</i>		private vlan mode

Command Mode

- /exec/configure/if-ethernet-switch /exec/configure/if-ethernet-all /exec/configure/if-eth-port-channel-switch /exec/configure/if-remote-ethernet-switch

switchport mode private-vlan trunk

```
{ switchport mode private-vlan trunk <trunk_mode> } | { no switchport mode private-vlan trunk [
<trunk_mode> ] }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
switchport		Configure switchport parameters
mode		Enter the port mode
private-vlan		Set the private VLAN configuration
trunk		private-vlan trunk
<i>trunk_mode</i>		private vlan trunk mode

Command Mode

- /exec/configure/if-ethernet-switch /exec/configure/if-ethernet-all /exec/configure/if-eth-port-channel-switch /exec/configure/if-remote-ethernet-switch

switchport port-security

[no] switchport port-security

Syntax Description

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

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 aging type absolute

[no] switchport port-security aging type { absolute | inactivity }

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
switchport	Configure switchport parameters
port-security	Port security related command
aging	Port-security aging commands
type	Type of timers
absolute	Absolute Timer
inactivity	Inactivity Timer

Command Mode

- /exec/configure/if-switching

switchport port-security mac-address

[no] switchport port-security mac-address <mac-address> [vlan <vlanid>]

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
switchport	Configure switchport parameters
port-security	Port security related command
mac-address	MAC address
<i>mac-address</i>	48 bit mac address format HHHH.HHHH.HHHH
vlan	(Optional) Vlan on which the mac address should be secured
<i>vlanid</i>	(Optional) vlan id. Enter a value between 1 and 4094

Command Mode

- /exec/configure/if-switching

switchport port-security mac-address sticky

[no] switchport port-security mac-address sticky

Syntax Description

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

Syntax Description	
no	(Optional) Negate a command or set its defaults
switchport	Configure switchport parameters
port-security	Port security related command
maximum	Max secure addresses
<i>value</i>	Maximum addresses 1 to 1025
vlan	(Optional) Vlan on which the mac address should be secured
<i>vlanid</i>	(Optional) vlan id. Enter a value between 1 and 4094

Command Mode

- /exec/configure/if-switching

switchport port-security violation

[no] switchport port-security violation { protect | restrict | shutdown }

Syntax Description

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

Syntax Description		
switchport		Configure switchport parameters
private-vlan		Set the private VLAN configuration
association	private vlan trunk association	
trunk	private-vlan trunk secondary	
no		Negate a command or set its defaults
<i>primary-vlan</i>		Primary VLAN ID
<i>secondary-vlan</i>		Secondary VLAN ID

Command Mode

- /exec/configure/if-switching /exec/configure/if-eth-port-channel-switch

switchport private-vlan host-association

{ switchport private-vlan host-association <primary-vlan> <secondary-vlan> } | { no switchport private-vlan host-association }

Syntax Description

Syntax Description		
switchport	Configure switchport parameters	
private-vlan	Set the private VLAN configuration	
host-association	Set the private VLAN host association	
no	Negate a command or set its defaults	
<i>primary-vlan</i>	Primary VLAN ID	
<i>secondary-vlan</i>	Secondary VLAN ID	

Command Mode

- /exec/configure/if-switching /exec/configure/if-eth-port-channel-switch

switchport private-vlan mapping

```
{ switchport private-vlan mapping <primary-vlan> [ { add | remove } ] <secondary_vlans> } | { no switchport private-vlan mapping [ <primary-vlan> <secondary_vlans> ] }
```

Syntax Description

Syntax Description		
switchport		Configure switchport parameters
private-vlan		Set the private VLAN configuration
mapping		Set the private VLAN access/trunk promiscuous mapping
add		(Optional) Add a VLAN to private VLAN list
remove		(Optional) Remove a VLAN from private VLAN list
no		Negate a command or set its defaults
<i>primary-vlan</i>		Primary private VLAN
<i>secondary_vlans</i>		Secondary VLAN IDs

Command Mode

- /exec/configure/if-switching /exec/configure/if-eth-port-channel-switch

switchport private-vlan mapping trunk

```
{ switchport private-vlan mapping trunk <primary-vlan> [ { add | remove } ] <secondary_vlans> } | { no
switchport private-vlan mapping trunk [ <primary-vlan> [ <secondary_vlans> ] ] }
```

Syntax Description

Syntax Description

switchport	Configure switchport parameters
private-vlan	Set the private VLAN configuration
mapping	Set the private VLAN access/trunk promiscuous mapping
add	(Optional) Add a VLAN to private VLAN list
remove	(Optional) Remove a VLAN from private VLAN list
no	Negate a command or set its defaults
trunk	private-vlan trunk promiscuous
<i>primary-vlan</i>	Primary private VLAN
<i>secondary_vlans</i>	Secondary VLAN IDs

Command Mode

- /exec/configure/if-switching /exec/configure/if-eth-port-channel-switch

switchport private-vlan trunk allowed vlan

switchport private-vlan trunk allowed vlan { <allowed-vlans> | add <add-vlans> | except <except-vlans> | remove <remove-vlans> | all | none } | no switchport private-vlan trunk allowed vlan <no-allowed-vlans>

Syntax Description

Syntax Description

switchport	Configure switchport parameters
private-vlan	Set the private VLAN configuration
trunk	Set the private vlan trunking configuration
allowed	Set allowed VLANs when interface is in private-vlan trunking mode
vlan	VLAN status
<i>allowed-vlans</i>	VLAN IDs of the allowed VLANs when interface is in private-vlan trunking mode
add	add VLANs to the current list
<i>add-vlans</i>	VLAN IDs of the allowed VLANs when interface is in private-vlan trunking mode
except	all VLANs except the following
<i>except-vlans</i>	VLAN IDs of disallowed VLANs when this port is in trunking mode
remove	remove VLANs from the current list
<i>remove-vlans</i>	VLAN IDs of disallowed VLANs when this port is in trunking mode
all	all VLANs
none	no VLANs
no	Negate a command or set its defaults
<i>no-allowed-vlans</i>	VLAN IDs of disallowed VLANs when this port is in trunking mode

Command Mode

- /exec/configure/if-switching /exec/configure/if-eth-port-channel-switch

switchport private-vlan trunk native vlan

{ switchport private-vlan trunk native vlan <native-vlan> } | { no switchport private-vlan trunk native vlan }

Syntax Description

Syntax Description

switchport	Configure switchport parameters
private-vlan	Set the private VLAN configuration
no	Negate a command or set its defaults
trunk	Set the private vlan trunking configuration
native	Set the private vlan trunking native configuration
vlan	VLAN status
<i>native-vlan</i>	native vlan id

Command Mode

- /exec/configure/if-switching /exec/configure/if-eth-port-channel-switch

switchto vdc

```
switchto vdc <e-vdc2> [ force ] [ bypass ] [ __readonly__ <vdc_id> <invalid_vdc_id> <noauth_vdc_id>
<no_first> ]
```

Syntax Description

Syntax Description	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	(Optional) force
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	(Optional) Enter Virtual Device Context <vdc-id>

Command Mode

- /exec/

sync-peers destination

sync-peers destination <dst-ip> [source <src-ip> | vrf <vrf-name>] + | no sync-peers destination [<dst-ip> [source <src-ip>]]

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
sync-peers	Specify peers to whom configuration needs to be synced
destination	Specify destination ip address of peer switch
<i>dst-ip</i>	IPv4 address (A.B.C.D) of destination
source	(Optional) Source interface for sending out configs
<i>src-ip</i>	(Optional) IPv4 address (A.B.C.D) of source
vrf	(Optional) vrf to be used default/management
<i>vrf-name</i>	(Optional) vrf to be used

Command Mode

- /exec/configure

sync-snmp-password

sync-snmp-password <s0>

Syntax Description

Syntax Description	
sync-snmp-password	sync snmp password
<i>s0</i>	password

Command Mode

- /exec

sync-snmp-password

sync-snmp-password <s0> <s1> <s2>

Syntax Description

Syntax Description

sync-snmp-password	sync snmp password
--------------------	-----------------------

<i>s0</i>	password
-----------	----------

<i>s1</i>	user
-----------	------

<i>s2</i>	snmp client host
-----------	------------------

Command Mode

- /exec

sync-snmp-password

[no] sync-snmp-password <s0>

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	sync-snmp-password	sync snmp password
	s0	password

Command Mode

- /exec/configure

syslog

```
syslog { msg <s0> | priority { <i0> msg1 <s1> | alerts msg2 <s2> | critical msg3 <s3> | debugging msg4 <s4>
| emergencies msg5 <s5> | errors msg6 <s6> | informational msg7 <s7> | notifications msg8 <s8> | warnings
msg9 <s9> } }
```

Syntax Description

Syntax Description

syslog	Execute a logging command
msg	Log EEM action message
<i>s0</i>	Enter the msg (max 300 chars)
priority	Priority of the log message
<i>i0</i>	Enter priority of the log message
msg1	Log EEM action message
<i>s1</i>	Enter the msg (max 300 chars)
alerts	Alert log message
msg2	Log EEM action message
<i>s2</i>	Enter the msg (max 300 chars)
critical	Critical log message
msg3	Log EEM action message
<i>s3</i>	Enter the msg (max 300 chars)
debugging	Debugging log message
msg4	Log EEM action message
<i>s4</i>	Enter the msg (max 300 chars)
emergencies	Emergency log message
msg5	Log EEM action message
<i>s5</i>	Enter the msg (max 300 chars)
errors	Error log message
msg6	Log EEM action message
<i>s6</i>	Enter the msg (max 300 chars)
informational	Informational log message
msg7	Log EEM action message

<i>s7</i>	Enter the msg (max 300 chars)
notifications	Notifications log message
msg8	Log EEM action message
<i>s8</i>	Enter the msg (max 300 chars)
warnings	Warning log message
msg9	Log EEM action message
<i>s9</i>	Enter the msg (max 300 chars)

Command Mode

- /exec

system-mac

system-mac <sysmac> | no system-mac

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	system-mac	Configure system mac address
	<i>sysmac</i>	specify system mac address

Command Mode

- /exec/configure/vpc-domain

system-priority

system-priority <syspri> | no system-priority <syspri>

Syntax Description

Syntax	Description
no	Negate a command or set its defaults
system-priority	Configure system priority
<i>syspri</i>	specify system priority

Command Mode

- /exec/configure/vpc-domain

system

```
[no] system { { routing { hierarchical def-max-mode l3 64b-alpm | non-hierarchical [ max-mode l3-nh [
64b-alpm-nh ] ] | max-mode host | max-mode-tor { l2 | l3 | l2-l3 } | template-overlay-host-scale |
template-lpm-heavy | template-lpm-scale-v6-64 | template-dual-stack-host-scale | template-dynamic-trie-scale
| template-multicast-heavy | template-vxlan-scale | template-mpls-heavy } } | { non-hierarchical-routing [
max-l3-mode ] } } }
```

Syntax Description

Syntax Description

no	(Optional) Negate a command or set its defaults
system	System Management Commands
routing	Layer-3 routing
hierarchical	Host routing on LC and LPM routing in FM
non-hierarchical	Disable mode of host routing on LC and LPM routing in Fabric modules
non-hierarchical-routing	Disable mode of host routing on LC and LPM routing in Fabric modules
def-max-mode	Maximum scale to be enabled
max-mode	(Optional) Maximum scale to be enabled
max-mode-tor	Maximum scale to be enabled
l2	Max Layer-2 records and fewer Layer-3 host routes
l3	Layer-3 longest-prefix-match (LPM) routes
l2-l3	Balance of both Layer-2 records and Layer-3 host routes
l3-nh	(Optional) Layer-3 longest-prefix-match (LPM) routes
64b-alpm	IPv6 routes with masks /64 or shorter
64b-alpm-nh	(Optional) IPv6 routes with masks /64 or shorter
max-l3-mode	(Optional) Enable ALPM mode (Mode-4 in T2)
host	host routes
template-overlay-host-scale	Overlay Host Scale
template-lpm-heavy	LPM Heavy
template-lpm-scale-v6-64	LPM Scale V6 64
template-dual-stack-host-scale	Dual Stack Host Scale
template-dynamic-trie-scale	Dynamic TRIE Scale

template-multicast-heavy	Multicast Heavy Scale
template-mpls-heavy	MPLS Heavy Scale
template-vxlan-scale	Vxlan Scale

Command Mode

- /exec/configure

system auto-collect tech-support

system [no] auto-collect tech-support [timeout <time>]

Syntax Description

Syntax Description

system	System management commands
no	(Optional) Negate a command or set its defaults
auto-collect	Auto collection of information
tech-support	Collect tech-support in case of service causing supervisor reset
timeout	(Optional) Collect tech-support timeout
<i>time</i>	(Optional) Timeout in seconds

Command Mode

- /exec

system cores

```
{ system cores { { <uri0> } | { <uri1> vrf <vrf-known-name> } } | no system cores [ { { <uri0> } | { <uri1>
vrf <vrf-known-name> } } ] }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
system		System configuration commands
cores		Copy cores to destination
<i>uri0</i>		Select destination filesystem
<i>uri1</i>		Select destination filesystem
vrf		Enter the vrf name
<i>vrf-known-name</i>		VRF name

Command Mode

- /exec/configure

system cores retain

[no] system cores retain

Syntax Description

Syntax Description	no (Optional) Negate a command or set its defaults
	system System configuration commands
	cores Copy cores to destination
	retain keep the cores

Command Mode

- /exec/configure

system default interface

```
{ system default interface { congestion { timeout <i0> mode { core | edge } | mode { core | edge } } | pause
{ timeout <i1> mode1 { core | edge } | mode1 { core | edge } } } | no system default interface { congestion {
timeout <i0> mode { core | edge } | mode { core | edge } } | pause { timeout <i1> mode1 { core | edge } |
mode1 { core | edge } } } }
```

Syntax Description

Syntax Description

no	Negate a command or set its defaults
system	System configuration commands
default	Configure system default values
interface	Configure system default interface values
congestion	Configure system timeout values for congestion drop
pause	Configure system timeout values for pause frame
timeout	Configure system timeout values
<i>i0</i>	Configure number of milliseconds
<i>i1</i>	Configure number of milliseconds
mode	Configure mode
mode1	Configure mode
core	Enter the port type
edge	Enter the port type

Command Mode

- /exec/configure

system default switchport

{ [no] system default switchport }

Syntax Description

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

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

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 dot1q-tunnel transit

[no] system dot1q-tunnel transit

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
system	System Management Commands
dot1q-tunnel	Dot1Q tunnel
transit	Transit box for multi-tag Ethernet Frames

Command Mode

- /exec/configure

system fabric-mode full-rate

[no] system fabric-mode full-rate

Syntax Description

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 hap-reset

system hap-reset

Syntax Description

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

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

Syntax Description	
system	System management commands
health	system health exec commands
check	run consistency check on compact flash
bootflash	check internal bootflash
fix-errors	(Optional) fix bootflash errors

Command Mode

- /exec

system heartbeat

system heartbeat

Syntax Description

Syntax Description

system System management commands

heartbeat enables heartbeat

Command Mode

- /exec

system heartbeat

system no heartbeat

Syntax Description

Syntax Description	
system	System management commands
no	Negate a command or set its defaults
heartbeat	enables heartbeat

Command Mode

- /exec

system high-multicast-priority

[no] system high-multicast-priority

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
system		System Management Commands
high-multicast-priority	high priority to	multicast

Command Mode

- /exec/configure

system inband queuing

```
[no] system inband queuing [ { [ round-robin ] [ bpdu weight <weight-val> ] [ q0 weight <weight-val> ] [ q1 weight <weight-val> ] [ q0 no-drop ] [ q1 no-drop ] [ pick_packets ] [ bpdu map <q-index> ] [ arp map <q-index> ] [ q0 map <q-index> ] [ q1 map <q-index> ] } ]
```

Syntax Description

Syntax Description

no	(Optional) Negate a command or set its defaults
system	System-related show commands
inband	System Inband configuration
queuing	System Inband Queueing Algorithm
round-robin	(Optional) Simple Round-Robin
bpdu	(Optional) bpdu queue
arp	(Optional) arp queue
q0	(Optional) q0 queue (cos 4,5,6,7)
q1	(Optional) q1 queue (cos 0,1,2,3)
weight	(Optional) weight associated with the queue
no-drop	(Optional) set no drop option on queue
<i>weight-val</i>	(Optional) weights
pick_packets	(Optional) enable packet rx
map	(Optional) map to queue
<i>q-index</i>	(Optional) queue index

Command Mode

- /exec/configure

system inband queuing

system inband queuing { clear-pm-counters | clear-klm-counters | clear-all-counters | enable-timestamp | disable-timestamp }

Syntax Description

Syntax Description		
system		System-related show commands
inband		System Inband configuration
queuing		System Inband Queueing Algorithm
clear-pm-counters		clear user space inband queue counters
clear-klm-counters		clear KLM VDC inband queue counters
clear-all-counters		clear all inband queue counters
enable-timestamp		enable timestamping in klm vdc
disable-timestamp		disable timestamping in klm vdc

Command Mode

- /exec

system interface shutdown

[no] system interface shutdown [exclude fex-fabric]

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
system	System configuration commands
interface	Configure system interface config
shutdown	Configure interface shutdown
exclude	(Optional) exclude
fex-fabric	(Optional) fex-fabric

Command Mode

- /exec/configure

system internal aclmgr global lock session

system internal aclmgr global lock <acquire-or-release> session <session_id> [pss-only]

Syntax Description

Syntax Description

system	System management commands
internal	Commands for internal use
aclmgr	Configure aclmgr internals
global	Global database lock
lock	Lock
<i>acquire-or-release</i>	
session	PPF Session id
<i>session_id</i>	PPF session id
pss-only	(Optional) Force the values to be set and written to PSS

Command Mode

- /exec

system internal aclmgr inject

system internal aclmgr inject <error-type> <err_id>

Syntax Description

Syntax Description

system	System management commands
internal	Commands for internal use
aclmgr	Configure aclmgr internals
inject	Inject error to state machine in next available event
<i>error-type</i>	Error type
<i>err_id</i>	Syserr id

Command Mode

- /exec/configure

system internal aclmgr remove policies interface

system internal aclmgr remove policies interface <ifname>

Syntax Description

Syntax Description

system System management commands

internal Commands for internal use

aclmgr Configure aclmgr internals

remove Remove access-lists

policies Policies

interface Interface whose policies need to be removed

ifname Interface name

Command Mode

- /exec/configure

system internal aclmgr vcache

```
system internal aclmgr vcache { { <add_or_rem> vlans <vlans> | reset } interface <ifname> | rebuild }
```

Syntax Description

Syntax Description		
system		System management commands
internal		Commands for internal use
aclmgr		Configure aclmgr internals
<i>add_or_rem</i>		Add or Remove vlan members to vlans
vcache		Vlan cache ut command, donot use this in production systems
vlans		Vlans which need to be added/removed from the interface
<i>vlans</i>		List of VLANs
reset		Reset all vlans on the interface
rebuild		Rebuild the vlan cache completely by requesting information from vlan manager
interface		Interface(s) which need to be added/removed/reset to/from vlans
<i>ifname</i>		Interface name list

Command Mode

- /exec/configure

system internal clis event-history size

```
[no] system internal clis event-history { nvdb | client | errors | parser | ha | cli } size { <size_in_text> | <size_in_bytes> }
```

Syntax Description

Syntax Description		
	no	(Optional) Negate a command or set its defaults
	system	System configuration commands
	internal	Commands for internal use
	clis	cli server
	event-history	Event history logs for clis
	nvdb	Log of NVDB and PSS events
	client	Log of client interaction events
	errors	Log of errors
	parser	Log of parser events
	ha	Log of ha events
	cli	Log of command events
	size	Enter size
	<i>size_in_text</i>	Buffer size
	<i>size_in_bytes</i>	Enter an integer value for the event history buffer

Command Mode

- /exec/configure

system internal npacl event-history size

```
[no] system internal npacl event-history { acl | ppf | cli | internal } size { <size_in_text> | <size_in_Kbytes>
}
```

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
system	System management commands	
internal	Commands for internal use	
npacl	Configure NPACL feature	
event-history	event history	
acl	acl policy history of npacl	
ppf	ppf interaction history of npacl	
cli	cli history of npacl	
internal	internal of npacl	
size	Configure the size of the event-hist buffer	
<i>size_in_text</i>	Buffer size	
<i>size_in_Kbytes</i>	Size of the file in kbytes	

Command Mode

- /exec

system internal policy-resync module

system internal policy-resync module <module>

Syntax Description

Syntax Description		
	system	System management commands
	internal	Commands for internal use
	policy-resync	resync PPF policy
	module	resync Module
	<i>module</i>	Module number to resync

Command Mode

- /exec

system internal snapshot service

system internal snapshot service <s0>

Syntax Description

Syntax Description	system	System management commands
	internal	Commands for internal usage
	snapshot	Generate debug snapshots
	service	Generate debug snapshot for service
	s0	please enter service name

Command Mode

- /exec

system jumbomtu

{ system jumbomtu <mtu> | no system jumbomtu [<mtu>] }

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	system	System configuration commands
	jumbomtu	Configure system jumbomtu
	<i>mtu</i>	Enter jumbomtu

Command Mode

- /exec/configure

system kernel-trace

system kernel-trace [enable | disable]

Syntax Description

Syntax Description	system	system management commands
	kernel-trace	kernel tracing
	enable	(Optional) enables kernel tracing
	disable	(Optional) disables kernel tracing

Command Mode

- /exec

system kgdb

system kgdb

Syntax Description

Syntax Description

system System management commands

kgdb enables kgdb

Command Mode

- /exec

system kgdb

system no kgdb

Syntax Description

Syntax Description	
system	System management commands
no	Negate a command or set its defaults
kgdb	enables kgdb

Command Mode

- /exec

system memory-thresholds minor severe critical

[no] system memory-thresholds minor <minor> severe <severe> critical <crit>

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
system	System configuration commands	
memory-thresholds	Set memory thresholds on the card	
minor	enter minor threshold	
<i>minor</i>	please enter minor memory threshold as % memory	
severe	enter severe treshold	
<i>severe</i>	please enter severe memory threshold as % memory	
critical	enter critical treshold	
<i>crit</i>	please enter critical memory threshold as % memory	

Command Mode

- /exec/configure

system minlife

system minlife <i0>

Syntax Description

Syntax Description	<i>system</i>	System management commands
	<i>minlife</i>	Set system minlife (in seconds)
	<i>i0</i>	Set minlife

Command Mode

- /exec

system mode maintenance

[no] system mode maintenance [dont-generate-profile] [non-interactive] | system mode maintenance [dont-generate-profile | shutdown] [non-interactive]

Syntax Description

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

Syntax Description		
	no	(Optional) Negate a command or set its defaults
	system	System configuration commands
	mode	system mode commands
	maintenance	system maintenance mode
	always-use-custom-profile	always use custom profile when entering maintenance mode

Command Mode

- /exec/configure

system mode maintenance on-reload reset-reason

[no] system mode maintenance on-reload reset-reason <reason>

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
system		System configuration commands
mode		system mode commands
maintenance		system maintenance mode
on-reload		on reload maintenance mode configuration
reset-reason		reset reason
		<i>reason</i>

Command Mode

- /exec/configure

system mode maintenance snapshot-delay

[no] system mode maintenance snapshot-delay <delay-value>

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
system	System configuration commands	
mode	system mode commands	
maintenance	system maintenance mode	
snapshot-delay	delay after which after_maintenance snapshot will be taken	
<i>delay-value</i>	delay value in seconds	

Command Mode

- /exec/configure

system mode maintenance timeout

[no] system mode maintenance timeout <timer-value>

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
system		System configuration commands
mode		system mode commands
maintenance		system maintenance mode
timeout		restart maintenance mode timer with a new value
<i>timer-value</i>		timer value in minutes

Command Mode

- /exec/configure

system module failure-action shutdown

[no] system module failure-action shutdown

Syntax Description

Syntax	Description
no	(Optional) Negate a command or set its defaults
system	system Internal Information
module	module commands
failure-action	Configure module action on failure
shutdown	action on failure - shutdown

Command Mode

- /exec/configure

system mrouting performance-mode

[no] system mrouting performance-mode

Syntax Description

Syntax Description		
	no	(Optional) Negate a command or set its defaults
	system	System Management Commands
	mrouting	Layer-3 mrouting
	performance-mode	Multicast Performance Mode

Command Mode

- /exec/configure

system nve drop-glean

system nve drop-glean | no system nve drop-glean

Syntax Description

Syntax Description		
no		Negate the command or set its defaults
system		System Management Commands
nve		VXLAN interface
drop-glean		Disable glean processing for VXLAN routes

Command Mode

- /exec/configure

system nve infra-vlans

system nve infra-vlans <vlan-range> | no system nve infra-vlans <vlan-range>

Syntax Description

Syntax Description

no	Negate the command or set its defaults
system	System Management Commands
nve	VXLAN interface
infra-vlans	Configure Vxlan SVI Uplinks(requires system reload)
<i>vlan-range</i>	VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19 (The range of vlans configured must not exceed 512)

Command Mode

- /exec/configure

system nve infra-vlans force

system nve infra-vlans <vlan-range> force

Syntax Description

Syntax Description		
system		System Management Commands
nve		VXLAN interface
infra-vlans		Configure Vxlan SVI Uplinks(requires system reload)
<i>vlan-range</i>		VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19 (The range of vlans configured must not exceed 512)
force		Force-set infra-vlans

Command Mode

- /exec/configure

system nve ingress-replication round-robin

[no] system nve ingress-replication round-robin

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
system	System Management Commands	
nve	VXLAN interface	
ingress-replication	VXLAN Ingress replication	
round-robin	Round-Robin hashing of underlay-paths for VXLAN ingress-replication peers	

Command Mode

- /exec/configure

system nve ipmc global index-size

system nve ipmc global index-size { <size> | default } | no system nve ipmc global index-size [<size>]

Syntax Description

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 nve mac-learn-disable

system nve mac-learn-disable | no system nve mac-learn-disable

Syntax Description

Syntax Description		
	no	Negate the command or set its defaults
	system	System Management Commands
	nve	VXLAN interface
	mac-learn-disable	Disable mac learning on VXLAN tunnels

Command Mode

- /exec/configure

system nve mac-nat-enable

system nve mac-nat-enable | no system nve mac-nat-enable

Syntax Description

Syntax Description		
no		Negate the command or set its defaults
system		System Management Commands
nve		VXLAN interface
mac-nat-enable		Enable mac NATing for VXLAN routes

Command Mode

- /exec/configure

system nve peer-vni-counter

system nve peer-vni-counter | no system nve peer-vni-counter

Syntax Description

Syntax Description		
	no	Negate the command or set its defaults
	system	System Management Commands
	nve	VXLAN interface
	peer-vni-counter	Enable per-peer-per-vni counters

Command Mode

- /exec/configure

system nve policy-install-all

system nve policy-install-all | no system nve policy-install-all

Syntax Description

Syntax Description		
no		Negate the command or set its defaults
system		System Management Commands
nve		VXLAN interface
policy-install-all		Install policies on all slices of forwarding ASIC

Command Mode

- /exec/configure

system offline

system offline

Syntax Description

Syntax Description

system System management commands

offline Go offline

Command Mode

- /exec

system private-vlan fex trunk

[no] system private-vlan fex trunk

Syntax Description

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

Syntax Description

system System management commands

pss PSS commands

shrink shrink pss files

Command Mode

- /exec

system qos

system qos

Syntax Description

Syntax Description	
system	System management commands
qos	QoS parameters

Command Mode

- /exec/configure

system release mod-lock uuid nodeid

system release mod-lock uuid <uuid-hex> nodeid <nodeid-hex>

Syntax Description

Syntax Description		
system		System management commands
release		release
mod-lock		module lock
uuid		uuid of the service holding the lock
<i>uuid-hex</i>		uuid
nodeid		node-id
<i>nodeid-hex</i>		nodeid

Command Mode

- /exec

system restart vdc service name

```
system restart vdc { <e-vdc2> | <vdc-id> } service name <s0>
```

Syntax Description

Syntax Description	
system	System management commands
restart	Restart a service
vdc	VDC number
<i>e-vdc2</i>	Enter VDC <vdc-id>
<i>vdc-id</i>	vdc number
service	Service to be restarted
name	Name of a service
<i>s0</i>	Name of service

Command Mode

- /exec/configure

system routing performance-mode

[no] system routing performance-mode

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
system	System Management Commands	
routing	Layer-3 routing	
performance-mode	Performance Mode	

Command Mode

- /exec/configure

system routing unknown-unicast-flood

[no] system routing unknown-unicast-flood

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
system		System Management Commands
routing		Layer-3 routing
unknown-unicast-flood		Hardware flood post-routed traffic on SVI if dest-mac->layer2-port binding unknown

Command Mode

- /exec/configure

system shutdown fan-direction mismatch

system shutdown fan-direction mismatch | no system shutdown fan-direction mismatch

Syntax Description

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

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

Syntax Description

system	System management commands
standby	System standby management commands
manual-boot	No action taken to force-download standby sup

Command Mode

- /exec

system standby reload vdc

```
system standby reload vdc { <e-vdc2> | <i0> }
```

Syntax Description

Syntax Description

system	System management commands
standby	System standby management commands
reload	Reload
vdc	vdc to reload
<i>e-vdc2</i>	Enter VDC <vdc-id>
<i>i0</i>	vdc number

Command Mode

- /exec

system startup-config init

system startup-config init

Syntax Description

Syntax Description		
	system	System management commands
	startup-config	System startup-config commands
	init	Initialize the startup-configuration

Command Mode

- /exec

system startup-config kill config-update

system startup-config kill config-update

Syntax Description

Syntax Description	system	System management commands
	startup-config	System startup-config commands
	kill	Kill configuration update
	config-update	Kill configuration update

Command Mode

- /exec

system startup-config unlock

system startup-config unlock <i0>

Syntax Description

Syntax Description		
system		System management commands
startup-config		System startup-config commands
unlock		Unlock startup-config
<i>i0</i>		Startup-config lock id

Command Mode

- /exec

system statistics

system statistics

Syntax Description

Syntax Description

system System management commands

statistics enables sysmgr statistics

Command Mode

- /exec

system statistics

system no statistics

Syntax Description

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

Syntax Description	
system	System management commands
switch-mode	change switch operational mode
<i>mode</i>	switch mode

Command Mode

- /exec/configure

system switchover

system switchover

Syntax Description

Syntax Description

system	System management commands
--------	----------------------------

switchover	Switch over to the standby supervisor
------------	---------------------------------------

Command Mode

- /exec

system switchover force

system switchover force

Syntax Description

Syntax Description	
system	System management commands
switchover	Switch over to the standby supervisor
force	Force switch over to the standby supervisor

Command Mode

- /exec

system swover-timeout-reset

[no] system swover-timeout-reset

Syntax Description

Syntax Description		
	no	(Optional) Negate a command or set its defaults
	system	System management commands
	swover-timeout-reset	switchover timeout and reset

Command Mode

- /exec

system trace

```
{ system trace <i0> | no system trace [ <i0> ] }
```

Syntax Description

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

Syntax Description	no (Optional) Negate a command or set its defaults
	system System Management Commands
	urpf Manage urpf enable/disable
	disable disable

Command Mode

- /exec/configure

system vlan reserve

system vlan <start-val> reserve | no system vlan <start-val> reserve

Syntax Description

Syntax	Description
system	system wide configuration
no	Select default reserved vlans group vlan 3968-4094
vlan	Vlan commands
<i>start-val</i>	minimum VLANs value
reserve	reservation

Command Mode

- /exec/configure

system vrf-member-change retain-l3-config

[no] system vrf-member-change retain-l3-config

Syntax Description

Syntax Description		
	no	(Optional) Negate a command or set its defaults
	system	System management commands
	vrf-member-change	vrf member change
	retain-l3-config	retain L3 configuration

Command Mode

- /exec/configure

system watchdog

system no watchdog

Syntax Description

Syntax Description	
system	System management commands
no	Negate a command or set its defaults
watchdog	enables watchdog

Command Mode

- /exec

system watchdog

system watchdog

Syntax Description

Syntax Description

system System management commands

watchdog enables watchdog

Command Mode

- /exec

system watchdog kgdb

system no watchdog kgdb

Syntax Description

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

Syntax Description

system System management commands

watchdog enables watchdog

kgdb enter kgdb on watchdog failure

Command Mode

- /exec



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table-map

[no] table-map <rmap-name> [filter]

Syntax Description

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 <policy-name> [filter]

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
table-map	Policy for filtering/modifying OSPF routes before sending them to RIB
<i>policy-name</i>	Route-map name
filter	(Optional) To block the OSPF routes from being sent to RIB

Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

table-map

[no] table-map <map> [filter]

Syntax Description

Syntax Description	<i>no</i>	(Optional) Negate a command or set its defaults
	<i>table-map</i>	Configure Table Map information
	<i>map</i>	Route-map name
	<i>filter</i>	(Optional) Filter routes which are rejected by route-map

Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

table-map

[no] table-map <table-map-name>

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	table-map	Configure a table map
	<i>table-map-name</i>	Table map name

Command Mode

- /exec/configure

table-map

table-map <default-tmap-enum-name>

Syntax Description

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

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-vrf-common /exec/configure/router-isis/router-isis-af-ipv4

table-map

[no] table-map <policy-name> [filter]

Syntax Description

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

Syntax Description	no	(Optional) Negate a command or set its defaults
	table-map	Policy for filtering/modifying OSPFV3 routes before sending them to RIB
	<i>policy-name</i>	Route-map name
	filter	(Optional) To block the OSPFV3 routes from being sent to RIB

Command Mode

- /exec/configure/router-ospf3/router-ospf3-af-ipv6 /exec/configure/router-ospf3/vrf/router-ospf3-af-ipv6

tac-pac

tac-pac [<uri0>]

Syntax Description

Syntax Description

tac-pac save tac info in a compressed .gz file at specific location

uri0 (Optional) Select destination filesystem

Command Mode

- /exec

tac-pac

tac-pac [<uri0> [vrf <vrf-known-name>]]

Syntax Description

Syntax Description		
tac-pac		save tac info in a compressed .gz file at specific location
<i>uri0</i>	(Optional)	Select destination filesystem
vrf	(Optional)	Display per-VRF information
<i>vrf-known-name</i>	(Optional)	Known VRF name

Command Mode

- /exec

tacacs-server deadline

[no] tacacs-server deadline <i0>

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	tacacs-server	Configure TACACS+ server related parameters
	deadline	duration for which non-reachable server is skipped
	<i>i0</i>	Length of time, in minutes

Command Mode

- /exec/configure

tacacs-server directed-request

[no] tacacs-server directed-request

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
tacacs-server	Configure TACACS+ server related parameters
directed-request	enable direct authentication requests to server

Command Mode

- /exec/configure

tacacs-server host key 0 6 7

```
{ { [ no ] tacacs-server host { <hostipname> } { { key { 0 <s0> | 6 <s6> | 7 <s1> | <s2> } [ port <i1> ] [
timeout <i2> ] } } | { [ port1 <i3> ] [ timeout1 <i4> ] } } } | { no tacacs-server host <hostipname> key } }
```

Syntax Description

Syntax Description	
<i>key</i>	0
no	(Optional) Negate a command or set its defaults
tacacs-server	Configure TACACS+ server related parameters
host	TACACS+ server's DNS name or its IP address
<i>hostipname</i>	IPV4/IPV6 address or DNS name
key	TACACS+ shared secret
0	TACACS+ shared secret(clear text)
<i>s0</i>	TACACS+ shared secret(clear text)
port	(Optional) TACACS+ server port
<i>i1</i>	(Optional) TACACS+ server port
timeout	(Optional) TACACS+ server timeout period in seconds
<i>i2</i>	(Optional) TACACS+ server timeout period in seconds
6	TACACS+ shared secret(type-6 encrypted)
<i>s6</i>	TACACS+ shared secret(encrypted)
7	TACACS+ shared secret(encrypted)
<i>s1</i>	TACACS+ shared secret(encrypted)
port1	(Optional) TACACS+ server port
<i>i3</i>	(Optional) TACACS+ server port
timeout1	(Optional) TACACS+ server timeout period in seconds
<i>i4</i>	(Optional) TACACS+ server timeout period in seconds
<i>s2</i>	TACACS+ shared secret(clear text)

Command Mode

- /exec/configure

tacacs-server host test

```
[no] tacacs-server host <hostipnam> test { { username <s0> { [ password <s1> [ idle-time <i1> ] ] [ idle-time <i1> ] } } | { password <s1> [ idle-time <i1> ] } | { idle-time <i1> } }
```

Syntax Description

Syntax Description	
<i>username</i>	<s0>
no	(Optional) Negate a command or set its defaults
tacacs-server	Configure TACACS+ server related parameters
host	TACACS+ server's DNS name or its IP address
<i>hostipnam</i>	IPV4/IPV6 address or DNS name
test	Parameters to send test packets
<i>s0</i>	user name
password	(Optional) user password in test packets
<i>s1</i>	(Optional) user password
idle-time	(Optional) time interval for monitoring the server
<i>i1</i>	(Optional) time period in minutes

Command Mode

- /exec/configure

tacacs-server key 0 6 7

```
{ { [ no ] tacacs-server key { 0 <s0> [ timeout <i0> ] | 6 <s6> [ timeout6 <i6> ] | 7 <s1> [ timeout1 <i1> ] | <s2> [ timeout2 <i2> ] } } | { no tacacs-server key } }
```

Syntax Description

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> [ idle-time <i1> ] ] | [ idle-time <i1> ] } } | { password <s1> [ idle-time <i1> ] } | { idle-time <i1> } }
```

Syntax Description

Syntax Description	
<i>username</i>	<s0>
<i>no</i>	(Optional) Negate a command or set its defaults
<i>tacacs-server</i>	Configure TACACS+ server related parameters
<i>test</i>	Parameters to send test packets
<i>s0</i>	user name
<i>password</i>	(Optional) user password in test packets
<i>s1</i>	(Optional) user password
<i>idle-time</i>	(Optional) time interval for monitoring the server
<i>i1</i>	(Optional) time period in minutes

Command Mode

- /exec/configure

tacacs-server timeout

[no] tacacs-server timeout <i0>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
tacacs-server	Configure TACACS+ server related parameters
timeout	Global TACACS+ server timeout period in seconds
<i>i0</i>	Global TACACS+ server timeout period in seconds

Command Mode

- /exec/configure

tacacs enable

[no] tacacs + enable

Syntax Description

Syntax Description	no (Optional) Negate a command or set its defaults
	enable Enable tacacs+

Command Mode

- /exec/configure

tag

```
{ { no | default } tag | tag <text> }
```

Syntax Description

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

tag happens in

[no] tag <tag_id> <op> <tag_id> [<op> <tag_id> [<op> <tag_id>]] happens <threshold> in <interval> |
no tag

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
tag	event tag identifier
<i>tag_id</i>	tag name
<i>op</i>	boolean operator
happens	The number of occurrences before raising the event
<i>threshold</i>	Occurs value
in	Number of occurrences must occur within this time period
<i>interval</i>	Enter seconds value

Command Mode

- /exec/configure/event-manager-applet

tahoe-python module

tahoe-python module <module>

Syntax Description

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

Syntax Description	tahoe-python	enter python mode for tahoe systems
	module	Module number of the linecard
	<i>module</i>	Enter module number
	quoted	enter the command with quotes Add multiple commands separated by semi-colon
	<i>quoted-cmd</i>	the command(s) to run in tahoe python

Command Mode

- /exec

tail

| tail [-n <lines>]

Syntax Description

Syntax Description

| Pipe command output to filter

tail Display last lines

-n (Optional) modify number of lines (default 10)

lines (Optional) number of lines to print

Command Mode

- /output

tail

tail <uri0> [<i1>]

Syntax Description

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

Syntax Description

tar	archiving operations
create	create an archive (merge several files together)
append	append some files to an existing archive
extract	extract files from archive (unmerge them)
verbose	(Optional) display files while merging/extracting
gz-compress	(Optional) compress archive with gzip, the default -> .tar.gz
bz2-compress	(Optional) compress archive with bzip2 -> .tar.bz2
uncompressed	(Optional) dont compress archive -> .tar
remove	(Optional) remove files after adding them to the archive
absolute	(Optional) don't strip leading `/'s from file names
keep-old	(Optional) don't replace existing files when extracting
screen	(Optional) extract files to screen
list	shows the list of files which are part of the archive
<i>new-archive-file</i>	the name of the archive (extension will be added if none of tar/tgz/tar.gz/tar.bz2/tbz2/tar.Z specified)
<i>archive-file</i>	the name of the archive (extension will be added if none of tar/tgz/tar.gz/tar.bz2/tbz2/tar.Z specified)
<i>files</i>	name of file to be added into archive
to	(Optional) extract to specific directory (default is bootflash)
<i>dest-dir</i>	(Optional) destination dir where to extract to (created if not exist), default is bootflash

Command Mode

- /exec

tclsh

tclsh <file> [<args>] +

Syntax Description

Syntax Description	tclsh source tclsh script
	<i>file</i> the file to run
	<i>args</i> (Optional) args to tcl script

Command Mode

- /exec

tclsh

tclsh

Syntax Description

Syntax Description

tclsh Execute
tclsh

Command Mode

- /exec

tcp-connect

```
[no] tcp-connect { <hostname> | <ip-address> } <dest-port> { [ control { disable | enable } ] [ source-ip { <source-ip-hostname> | <source-ip-address> } ] [ source-port <src-port> ] } +
```

Syntax Description

Syntax Description	
<code>no</code>	(Optional)
<code>control</code>	(Optional) enable
<code>source-ip-address</code>	(Optional) <src-port>
<code>tcp-connect</code>	TCP Connect Operation
<code>hostname</code>	Destination hostname, broadcast disallowed
<code>ip-address</code>	Destination IP address, broadcast disallowed
<code>dest-port</code>	Port Number (Recommended port range between 1025-65534)
<code>enable</code>	(Optional) Enable control packets exchange (default)
<code>disable</code>	(Optional) Disable control packets exchange
<code>source-ip</code>	(Optional) Source address
<code>source-ip-hostname</code>	(Optional) source IP hostname, broadcast disallowed
<code>source-port</code>	(Optional) Source Port
<code>src-port</code>	(Optional) Port Number (Recommended port range between 1025-65534)

Command Mode

- /exec/configure/ip-sla

telemetry

[no] telemetry

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its default
telemetry	

Command Mode

- /exec/configure

telnet

```
{ telnet { <so> | <host> } } [ <i0> ] [ [ source { <host_src> | <interface> } ] [ vrf { <vrf-name> | <vrf-known-name> } ] ]
```

Syntax Description

Syntax Description		
telnet		Telnet to another system
<i>so</i>		Enter hostname
<i>host</i>		Enter a valid IPv4 address
source	(Optional)	Set source address in IPv4 header
<i>host_src</i>	(Optional)	Set IPV4 address as source
<i>interface</i>	(Optional)	Set interface to send IPv4 packet
vrf	(Optional)	Display per-VRF information
<i>vrf-name</i>	(Optional)	VRF name
<i>vrf-known-name</i>	(Optional)	Known VRF name
<i>i0</i>	(Optional)	Enter the port number

Command Mode

- /exec

telnet6

```
{ telnet6 { <s1> | <host1> } } [ <i0> ] [ [ source { <host1_src> | <interface> } ] [ vrf { <vrf-name> | <vrf-known-name> } ] ]
```

Syntax Description

Syntax Description

telnet6	Telnet6 to another system using IPv6 addressing
<i>s1</i>	Enter hostname
source	(Optional) Set source address in IPv6 header
<i>interface</i>	(Optional) Set interface to send IPv6 packet
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>i0</i>	(Optional) Enter the port number

Command Mode

- /exec

telnet login-attempts

```
{ { telnet login-attempts <d0> } | { no telnet login-attempts [ <d0> ] } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
telnet		telnet login
login-attempts		Set maximum login attempts
<i>d0</i>		Specify max-attempt number

Command Mode

- /exec/configure/

telnet server enable

[no] telnet server enable

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
telnet	Enable telnet
server	Enable telnet
enable	Enable telnet

Command Mode

- /exec/configure

template

template <res-mgr-template-known-name-all>

Syntax Description

Syntax Description	
template	Change the template for this vdc
<i>res-mgr-template-known-name-all</i>	Resource template for this vdc

Command Mode

- /exec/configure/vdc

template data timeout

{ [no] template data timeout <time> | no template data timeout }

Syntax Description

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

Syntax Description		
	no	(Optional) Negate a command or set its defaults
	template	Enter template command mode
	peer-policy	Template configuration for policy parameters
	<i>peer-policy-template-name</i>	Name of peer-policy template

Command Mode

- /exec/configure/router-bgp

template peer-session

[no] template peer-session <peer-session-template-name>

Syntax Description

Syntax Description		
no		(Optional) Negate a command or set its defaults
template		Enter template command mode
peer-session		Template configuration for session parameters
<i>peer-session-template-name</i>		Name of peer-session template

Command Mode

- /exec/configure/router-bgp

template peer

[no] template peer <peer-template-name>

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
template		Enter template command mode
peer		Template configuration for peer parameters
<i>peer-template-name</i>		Neighbor template name

Command Mode

- /exec/configure/router-bgp

terminal

```
terminal { monitor | no { monitor1 | monitor-force } }
```

Syntax Description

Syntax Description

terminal	Set terminal line parameters
monitor	Copy Syslog output to the current terminal line
no	Negate a command or set its defaults
monitor1	Copy Syslog output to the current terminal line
monitor-force	Copy Syslog output to the current terminal line

Command Mode

- /exec

terminal alias

[no] terminal alias [persist] [<alias-name> [<command>]]

Syntax Description

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)
<i>alias-name</i>	(Optional) Name of the alias. (if last argument: shows the value of that alias) Command lines can start with an alias and it will be expanded before parsing. An alias can also be used right after a pipe. The substitution text can contain things like '\$1 \$2' and those \$<number> will be substituted by correspondingly numbered token from the command line starting the counting after the alias.
<i>command</i>	(Optional) Value of the alias (what the alias will be substituted with)

Command Mode

- /exec

terminal ask-on-term

[no] terminal ask-on-term <term>

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	terminal	Set terminal line parameters
	ask-on-term	ask backend driven question on given terminal
	<i>term</i>	the terminal (/dev/ptsX)

Command Mode

- /exec

terminal color

[no] terminal color [persist]

Syntax Description

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

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

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

Syntax Description

no (Optional) Negate a command or set its defaults

terminal Set terminal line parameters

dont-ask Don't ask 'are you sure' questions, take default answer instead

persist (Optional) add command to <username>.rc.cli file (auto-execed at login time)

Command Mode

- /exec

terminal edit-mode vi

[no] terminal edit-mode vi [persist]

Syntax Description

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

Syntax Description		
	terminal	Set terminal line parameters
	<i>noarg</i>	(Optional)
	event-manager	Event manager cli event
	bypass	Bypass event manager cli event publish

Command Mode

- /exec

terminal history no-exec-in-config

[no] terminal history no-exec-in-config

Syntax Description

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

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

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

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

Syntax Description	
terminal	Set terminal line parameters
length	Set number of lines on a screen
<i>i0</i>	Number of lines on screen (0 for no pausing)

Command Mode

- /exec

terminal length

terminal length <i0>

Syntax Description

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 lock

terminal lock

Syntax Description

Syntax Description	
terminal	Set terminal line parameters
lock	Locks the CLI Config mode

Command Mode

- /exec

terminal log-all

[no] terminal log-all

Syntax Description

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

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

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

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

Syntax Description		
no	(Optional)	Negate a command or set its defaults
terminal		Set terminal line parameters
output		how output of show commands should be formatted
xml		xml output
<i>namespace-version</i>		enter the version for xml output

Command Mode

- /exec

terminal password

terminal password <password> | no terminal password [<password>]

Syntax Description

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

Syntax Description	
no	(Optional) Negate a command or set its defaults
terminal	Set terminal line parameters
prompt	configure how the prompt should look like
fix	(Optional) set the prompt to a fix name (default _prompt_)
with-cr	(Optional) add a carriage return at the end of the prompt
<i>name</i>	(Optional) name to use as a fix prompt
mode	(Optional) include the cli mode name (ex: config-if) into the prompt
fq-command	(Optional) include the fully qualified command just executed (formatted like in accounting log)
command	(Optional) include the previous command (not including the mode and mode instance)
status	(Optional) include the status of previous command (0=success)
exec-time	(Optional) include the time it took to execute previous command
time	(Optional) include the time when prompt was printed
no-echo	(Optional) dont echo the typed characters

Command Mode

- /exec

terminal redirection-mode

terminal redirection-mode <mode>

Syntax Description

Syntax Description		
	terminal	Set terminal line parameters
	redirection-mode	Set the redirection mode
	<i>mode</i>	

Command Mode

- /exec

terminal reset-role

terminal reset-role <num>

Syntax Description

Syntax Description

terminal Set terminal line parameters

reset-role Reset the privilege role to default

num Enter the role num

Command Mode

- /exec

terminal reset vlan-config-mutex

terminal reset vlan-config-mutex

Syntax Description

Syntax Description		
	terminal	Set terminal line parameters
	reset	Force reset of the vlan config mode mutex
	vlan-config-mutex	Vlan configuration mutex

Command Mode

- /exec

terminal session-timeout

terminal session-timeout <i0>

Syntax Description

Syntax Description		
terminal	Set terminal line parameters	
session-timeout	Set session timeout	
<i>i0</i>	Enter timeout in minutes, 0 to disable	

Command Mode

- /exec

terminal sticky-mode

terminal [<noarg>] sticky-mode

Syntax Description

Syntax Description	terminal	Set terminal line parameters
	<i>noarg</i>	(Optional)
	sticky-mode	Search for the command match in current mode only

Command Mode

- /exec

terminal terminal-type

terminal terminal-type <s0>

Syntax Description

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

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

Syntax Description

terminal	Set terminal line parameters
----------	------------------------------

tree-update	Updates the main parse tree
-------------	-----------------------------

Command Mode

- /exec

terminal unlock

terminal unlock

Syntax Description

Syntax Description	
terminal	Set terminal line parameters
unlock	Force unlocking of the CLI config mode

Command Mode

- /exec

terminal verify-only

```
terminal [ <noarg> ] verify-only [ username <user> ]
```

Syntax Description

Syntax Description	
<code>terminal</code>	Set terminal line parameters
<code>noarg</code>	(Optional)
<code>verify-only</code>	Verify command and do not execute
<code>username</code>	(Optional) Username for aaa authorization
<code>user</code>	(Optional) Username for aaa authorization

Command Mode

- /exec

terminal width

terminal width <i0>

Syntax Description

Syntax Description	
terminal	Set terminal line parameters
width	Set width of the display terminal
<i>i0</i>	Number of characters on a screen line

Command Mode

- /exec

terminal width

terminal width <i0>

Syntax Description

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

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

Syntax	Description
no	Negate a command or set its defaults
threshold-percent	Threshold parameters
percent-threshold	Percentage threshold
percentup	Up threshold
<i>up-percentage</i>	Up threshold percentage

Command Mode

- /exec/configure/tr-list-thrp

threshold

{ { no | default } threshold | threshold <milliseconds> }

Syntax Description

Syntax Description	
no	
default	Set a command to its defaults
threshold	Operation threshold
<i>milliseconds</i>	Millisecond threshold value

Command Mode

- /exec/configure/ip-sla/udp /exec/configure/ip-sla/jitter /exec/configure/ip-sla/tcp
/exec/configure/ip-sla/icmpEcho /exec/configure/ip-sla/dns /exec/configure/ip-sla/fabricPathEcho

time-range

[no] time-range <name>

Syntax Description

Syntax Description	<i>no</i>	(Optional) Negate a command or set its defaults
	<i>time-range</i>	Define time range entries
	<i>name</i>	Time range name

Command Mode

- /exec/configure

timeout

{ { no | default } timeout |

Syntax Description

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

timer

timer <value> | no timer

Syntax Description

Syntax Description	<i>no</i> Negate a command or set its defaults
	<i>timer</i> Configure Bundle timer value
	<i>value</i> Hello timer value

Command Mode

- /exec/configure/anycast

timers

timers <keepalive-interval> <hold-time> | { no | default } timers [<keepalive-interval> <hold-time>]

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
default		Inherit values from a peer template
timers		Configure keepalive and hold timers
<i>keepalive-interval</i>		Keepalive interval (seconds)
<i>hold-time</i>		Holdtime (seconds)

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor-sess

timers

```
timers { <hello-time> { <hold-time> | ms-hold <hold-time-msec> } | ms-hello <hello-time-msec> {
<hold-time-sec> | msec-hold <hold-time-msec> } | redirect <redirect-time> <sec-hold-time> } | no timers [
{ <hello-time> [ { <hold-time> | ms-hold <hold-time-msec> } ] | ms-hello [ <hello-time-msec> [
<hold-time-sec> | msec-hold <hold-time-msec> ] ] | redirect [ <redirect-time> [ <sec-hold-time> ] ] } ]
```

Syntax Description

Syntax Description

no	Negate a command or set its defaults
timers	Adjust GLBP timers
<i>hello-time</i>	Specify Hello interval in seconds
<i>hold-time</i>	Specify Hold time in seconds
ms-hold	Specify hold time in milliseconds
<i>hold-time-msec</i>	Hold time in milliseconds
ms-hello	Specify hello interval in milliseconds
<i>hello-time-msec</i>	hello interval in milliseconds
<i>hold-time-sec</i>	Hold time in seconds
msec-hold	Specify hold time in milliseconds
redirect	Specify time-out value for failed forwarders
<i>redirect-time</i>	Interval in seconds to redirect to failed forwarders
<i>sec-hold-time</i>	Time-out interval in seconds for failed forwarders

Command Mode

- /exec/configure/if-eth-any/glbp

timers

timers { <hello-time> { <hold-time> | msec-hold <msec-hold> } | msec-hello <msec-hello> { <hold-time> | msec-hold <msec-hold> } } | no timers

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
timers		Hello and hold timers
<i>hello-time</i>		Hello interval in seconds
<i>hold-time</i>		Hold time in seconds
msec-hold		Specify hold interval in milliseconds
<i>msec-hold</i>		Hold interval in milliseconds
msec-hello		Specify hello interval in milliseconds
<i>msec-hello</i>		Hello interval in milliseconds

Command Mode

- /exec/configure/if-eth-any/hsrp_ipv4 /exec/configure/if-eth-any/hsrp_ipv6

timers

```
[no] timers { nsf { route-hold <hold-interval> | converge <converge-interval> | signal <signal-interval> } |
active-time [ <max-active-time> | disabled ] }
```

Syntax Description

Syntax	Description
no	(Optional) Negate a command or set its defaults
timers	Set EIGRP timers
nsf	EIGRP NSF timer
route-hold	EIGRP hold time for routes learned from nsf peer
<i>hold-interval</i>	Seconds
active-time	EIGRP time limit for active state
<i>max-active-time</i>	(Optional) EIGRP active-state time limit in minutes
disabled	(Optional) disable EIGRP time limit for active state
converge	EIGRP time limit for convergence after switchover
<i>converge-interval</i>	Seconds
signal	EIGRP time limit for signaling NSF restart
<i>signal-interval</i>	Seconds

Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

timers advertise

[no] timers advertise | timers advertise <val>

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	timers	Set the VRRP timers
	advertise	Set the advertise timer
	<i>val</i>	Advertisement interval in milliseconds

Command Mode

- /exec/configure/if-eth-any/vrrpv3

timers basic

timers basic <update> <invalid> <holddown> <garbage> | no timers basic [<update> <invalid> <holddown> <garbage>]

Syntax Description

Syntax	Description
no	Negate a command or set its defaults
timers	RIP set timers
basic	RIP set basic timers
<i>update</i>	RIP update period
<i>invalid</i>	RIP route timeout period
<i>holddown</i>	RIP route holddown period
<i>garbage</i>	RIP route garbage period

Command Mode

- /exec/configure/router-rip/router-rip-af-common /exec/configure/router-rip/router-rip-vrf-af-common

timers bestpath-defer maximum

[no] timers bestpath-defer <bestpath-defer-time> maximum <bestpath-defer-time-max>

Syntax Description

Syntax Description

no	(Optional) Negate a command or set its defaults
timers	Configure bgp related timers
bestpath-defer	Configure bestpath defer timer value for batch prefix processing
<i>bestpath-defer-time</i>	Bestpath defer time (mseconds)
maximum	Configure bestpath defer timer maximum value
<i>bestpath-defer-time-max</i>	Maximum bestpath defer time (mseconds)

Command Mode

- /exec/configure/router-bgp/router-bgp-af

timers bestpath-limit

timers bestpath-limit <bestpath-timeout> [always] | no timers bestpath-limit [<bestpath-timeout>]

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
timers		Configure bgp related timers
bestpath-limit		Configure timeout for first bestpath after restart
<i>bestpath-timeout</i>		Bestpath timeout (seconds)
always		(Optional) Configure update-delay-always option

Command Mode

- /exec/configure/router-bgp/vrf-cmds

timers bgp

[no] timers bgp <keepalive-interval> <hold-time>

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
timers	Configure bgp related timers	
bgp	Configure different bgp keepalive and holdtimes	
<i>keepalive-interval</i>	Keepalive interval (seconds)	
<i>hold-time</i>	Holdtime (seconds)	

Command Mode

- /exec/configure/router-bgp/vrf-cmds

timers lsa-arrival

```
{ { timers lsa-arrival <interval> } | { no timers lsa-arrival [ <interval> ] } }
```

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	timers	Configure timer related constants
	lsa-arrival	Minimum interval between arrival of a LSA
	<i>interval</i>	Interval value (milliseconds)

Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

timers lsa-arrival

```
{ { timers lsa-arrival <interval> } | { no timers lsa-arrival [ <interval> ] } }
```

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
timers	Configure timer related constants
lsa-arrival	Minimum interval between arrival of a LSA
<i>interval</i>	Interval value (millisecond)

Command Mode

- /exec/configure/router-ospf3 /exec/configure/router-ospf3/vrf

timers lsa-group-pacing

```
{ { timers lsa-group-pacing <interval> } | { no timers lsa-group-pacing [ <interval> ] } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
timers		Configure timer related constants
lsa-group-pacing		LSA group refresh/maxage interval
<i>interval</i>		Interval value (seconds)

Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

timers lsa-group-pacing

```
{ { timers lsa-group-pacing <interval> } | { no timers lsa-group-pacing [ <interval> ] } }
```

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	timers	Configure timer related constants
	lsa-group-pacing	LSA group refresh/maxage interval
	<i>interval</i>	Interval value (seconds)

Command Mode

- /exec/configure/router-ospf3 /exec/configure/router-ospf3/vrf

timers prefix-peer-timeout

timers prefix-peer-timeout <prefixpeer-timeout> | no timers prefix-peer-timeout [<prefixpeer-timeout>]

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
timers		Configure bgp related timers
prefix-peer-timeout		Configure how long state for a prefix peer is maintained
<i>prefixpeer-timeout</i>		Prefix Peer timeout (seconds)

Command Mode

- /exec/configure/router-bgp/vrf-cmds

timers prefix-peer-wait

timers prefix-peer-wait <prefixpeer-wait> | no timers prefix-peer-wait [<prefixpeer-wait>]

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
timers		Configure bgp related timers
prefix-peer-wait		Configure wait timer for a prefix peer
<i>prefixpeer-wait</i>		Prefix peer wait timer (seconds)

Command Mode

- /exec/configure/router-bgp/vrf-cmds

timers throttle lsa

```
{ { timers throttle lsa <start-time> <hold-time> <max-time> } | { no timers throttle lsa [ <start-time>
<hold-time> <max-time> ] } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
timers		Configure timer related constants
throttle		Set rate-limiting values (milliseconds)
lsa		Set rate-limiting for LSA generation
<i>start-time</i>		Start interval (milliseconds)
<i>hold-time</i>		Hold interval (milliseconds)
<i>max-time</i>		Max interval (milliseconds)

Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

timers throttle lsa

```
{ { timers throttle lsa <start-time> <hold-time> <max-time> } | { no timers throttle lsa [ <start-time>
<hold-time> <max-time> ] } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
timers		Configure timer related constants
throttle		Set rate-limiting values (milliseconds)
lsa		Set rate-limiting for LSA generation
<i>start-time</i>		Start interval (milliseconds)
<i>hold-time</i>		Hold interval (milliseconds)
<i>max-time</i>		Max interval (milliseconds)

Command Mode

- /exec/configure/router-ospf3 /exec/configure/router-ospf3/vrf

timers throttle spf

```
{ { timers throttle spf <start-time> <hold-time> <max-time> } | { no timers throttle spf [ <start-time>
<hold-time> <max-time> ] } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
timers		Configure timer related constants
throttle		Configure timer related constants
spf		OSPF SPF timers
<i>start-time</i>		Initial SPF schedule delay in milliseconds
<i>hold-time</i>		Minimum hold time between SPF calculations
<i>max-time</i>		Maximum wait time between SPF calculations

Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

timers throttle spf

```
{ { timers throttle spf <start-time> <hold-time> <max-time> } | { no timers throttle spf [ <start-time>
<hold-time> <max-time> ] } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
timers		Configure timer related constants
throttle		Configure timer related constants
spf		OSPF SPF timers
<i>start-time</i>		Initial SPF schedule delay in milliseconds
<i>hold-time</i>		Minimum hold time between SPF calculations
<i>max-time</i>		Maximum wait time between SPF calculations

Command Mode

- /exec/configure/router-ospf3/router-ospf3-af-ipv6 /exec/configure/router-ospf3/vrf/router-ospf3-af-ipv6

tls

[no] tls

Syntax Description

Syntax Description

n (Optional) Negate a command or set its defaults

t One Platform TLS transport configuration mode

Command Mode

- /exec/configure/onep

tls trust-point local remote

tls trust-point local <tp_local> remote <tp_remote> | no tls trust-point

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
tls		OpenFlow switch tls
trust-point		Configure local and remote trustpoints
local		Configure local trustpoint
<i>tp_local</i>		Local trustpoint name
remote		Configure remote trustpoint
<i>tp_remote</i>		Remote trustpoint name

Command Mode

- /exec/configure/openflow/switch

tls trust-point local remote

tls trust-point local <tp_local> remote <tp_remote> | no tls trust-point

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
tls		OpenFlow switch tls
trust-point		Configure local and remote trustpoints
local		Configure local trustpoint
<i>tp_local</i>		Local trustpoint name
remote		Configure remote trustpoint
<i>tp_remote</i>		Remote trustpoint name

Command Mode

- /exec/configure/openflow/switch/sub-switch

topology holddown sigerr

[no] topology holddown sigerr | topology holddown sigerr <sec>

Syntax Description

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

Syntax Description	
no	
default	Set a command to its defaults
tos	Type of Service
<i>tos-value</i>	Type of Service Value

Command Mode

- /exec/configure/ip-sla/udp /exec/configure/ip-sla/jitter /exec/configure/ip-sla/tcp /exec/configure/ip-sla/icmpEcho

tr

```
| tr [ -c | -d | -s | -t ] + <SET1> [ <SET2> ]
```

Syntax Description**Syntax Description**

	Pipe command output to filter
tr	Translate, squeeze, and/or delete characters
-c	(Optional) first complement SET1
-d	(Optional) delete characters in SET1, do not translate
-s	(Optional) replace each sequence of a repeated character from SET1 with single occurrence of that character
-t	(Optional) first truncate SET1 to length of SET2
<i>SET1</i>	character SET1: CHAR1-CHAR2 = all characters from CHAR1 to CHAR2 in ascending order special chars: (tab) (new line) [:alnum:] [:alpha:] [:digit:] [:graph:] (printable, no space) [:print:] (printable, with space) [:lower:] [:upper:] [:space:] (tab or space)
<i>SET2</i>	(Optional) character SET2 (for translation length is extended to length of SET1 by repeating last char, excess chars are ignored): format same as SET1 [CHAR*] = copies of CHAR until length of SET1 [CHAR*REPEAT] = REPEAT copies of CHAR

Command Mode

- /output

trace buffer size

trace buffer { error | warning | event } size <size>

Syntax Description

Syntax Description	
trace	MPLS static trace
buffer	MPLS static trace buffer
error	MPLS static error trace
warning	MPLS static warning trace
event	MPLS static event trace
size	trace buffer size in Kbytes
<i>size</i>	trace buffer size in Kbytes

Command Mode

- /exec/configure/mpls_static

tracert

```
tracert { <host> | <hostname> } [ port <portnumber> ] [ [ source-interface <src-intf> ] | [ source { <host>
| <hostname> | <interface> } ] [ vrf { <vrf-name> | <vrf-known-name> } ] ] ]
```

Syntax Description

Syntax Description

tracert	Tracert
<i>host</i>	IP address of remote system
<i>hostname</i>	Hostname of remote system
port	(Optional) Set destination port
<i>portnumber</i>	(Optional) Enter destination port number
source	(Optional) Set source address in IP header
<i>interface</i>	(Optional) Interface
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
source-interface	(Optional) Select source interface
<i>src-intf</i>	(Optional) Specify interface

Command Mode

- /exec

traceroute6

```
traceroute6 { <host> | <hostname> } [ [ source { <host> | <hostname> | <interface> } ] [ vrf { <vrf-name> | <vrf-known-name> } ] ] [ source-interface <src-intf> ] ]
```

Syntax Description

Syntax Description	traceroute6	Traceroute6
<i>hostname</i>		Hostname of remote system
source		(Optional) Set source address in IPv6 header
<i>interface</i>		(Optional) Interface
vrf		(Optional) Display per-VRF information
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name
source-interface		(Optional) Select source interface
<i>src-intf</i>		(Optional) Specify interface

Command Mode

- /exec

traceroute nve

```
traceroute nve { { { ip { <numeric10> | <numeric11> | unknown } } [ vrf { <vrf-name> | <vrf-known-name>
} ] { <dot1qid1> } ] } | mac <dmac> <dot1qid> <intfid> } [ profile <pid> ] [ payload { [ mac-addr <dstmac>
<smac> ] [ dot1q <dot1q-id> ] [ ip <dstip> <srcip> | ipv6 <dstipv6> <srcipv6> ] [ port <sport> <dport> ] [
proto <proto-id> ] } payload-end ] [ source { <numeric1> | <numeric2> } ]
```

Syntax Description

Syntax Description

traceroute	Test
nve	network virtualization edge
<i>numeric10</i>	Ipv4 address of remote host / VTEP
unknown	Peer vtep ip is unknown, will be derived from payload
<i>intfid</i>	Name of the interface for ngoam traceroute on which dot1q is configured
profile	(Optional) NGOAM profile to use
<i>pid</i>	(Optional) NGOAM profile id
mac	Mac
<i>dmac</i>	Destination mac address
<i>dot1qid</i>	Encapsulation dot1q/bd on which the mac is learnt
<i>dot1qid1</i>	(Optional) Encapsulation dot1q/bd on which the mac is learnt
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
source	(Optional) Source
<i>numeric1</i>	(Optional) IP
payload	(Optional) Enter customer payload
mac-addr	(Optional) Mac
<i>dstmac</i>	(Optional) Destination mac address
<i>smac</i>	(Optional) Source mac address
dot1q	(Optional) Encapsulation dot1q/bd
<i>dot1q-id</i>	(Optional) Encapsulation dot1q/bd on which the mac is learnt
ip	ip address

<i>dstip</i>	(Optional) Destination ipv4 address
<i>srcip</i>	(Optional) source ipv4 address
<i>ipv6</i>	(Optional) ipv6 address
<i>port</i>	(Optional) L4 port info
<i>sport</i>	(Optional) Source port
<i>dport</i>	(Optional) Destination port
<i>proto</i>	(Optional) Protocol
<i>proto-id</i>	(Optional) IANA Protocol id
<i>payload-end</i>	(Optional) End payload info input

Command Mode

- /exec

track-adjacency-nexthop

[no] track-adjacency-nexthop

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	track-adjacency-nexthop	Track next-hop for same-site Overlay adjacencies

Command Mode

- /exec/configure/otv-isis

track

track <object-id>

Syntax Description

Syntax Description	track	Object tracking deletion command
	<i>object-id</i>	Tracked Object

Command Mode

- /exec/configure

track

[no] track <object-id> [force]

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
track	Object tracking deletion command
<i>object-id</i>	Tracked Object
force	(Optional) Completely remove the object

Command Mode

- /exec/configure

track

```
track <object-id> { { ip_v4 route <route-prefix> reachability [ hmm ] } | { ip_v6 routev6 <v6route-prefix>
reachability [ hmm ] } }
```

Syntax Description

Syntax Description		
track		Object tracking configuration command
<i>object-id</i>		Tracked Object
ip_v4		IPv4 protocol
route		IPv4 route
<i>route-prefix</i>		Specify ipv4 route prefix
ip_v6		IPv6 protocol
routev6		IPv6 route
reachability		Route reachability state
hmm		(Optional) Track routes owned by hmm

Command Mode

- /exec/configure

track

```
track <object-id> { ip_v4 sla <sla-id> [ sla_reachability | sla_state ] }
```

Syntax Description

Syntax Description	track	Object tracking configuration command
	<i>object-id</i>	Tracked Object
	ip_v4	IPv4 protocol
	sla	IP Service Level Agreement
	<i>sla-id</i>	Entry number
	sla_reachability	(Optional) Reachability
	sla_state	(Optional) return code state

Command Mode

- /exec/configure

track

```
track <object-id> { list { boolean <bool-val> } }
```

Syntax Description

Syntax Description	track	Object tracking configuration command
	<i>object-id</i>	Tracked Object
	list	Object tracking list
	boolean	boolean list type
	<i>bool-val</i>	boolean list type

Command Mode

- /exec/configure

track

```
track <object-id> { list threshold <weight-val> }
```

Syntax Description

Syntax Description	track	Object tracking configuration command
	<i>object-id</i>	Tracked Object
	list	Object tracking list
	threshold	threshold type
	<i>weight-val</i>	threshold weight type

Command Mode

- /exec/configure

track

```
track <object-id> { list threshold <percentage-val> }
```

Syntax Description

Syntax Description		
	track	Object tracking configuration command
	<i>object-id</i>	Tracked Object
	list	Object tracking list
	threshold	threshold type
	<i>percentage-val</i>	threshold percentage type

Command Mode

- /exec/configure

track

[no] track <object-number> [decrement <value>]

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
track		Associates track object to HSRP group
<i>object-number</i>		Set the object number to the group
decrement	(Optional)	Decrements when tracked object goes down
<i>value</i>	(Optional)	Set the value to decrement from priority

Command Mode

- /exec/configure/if-eth-any/hsrp_ipv4 /exec/configure/if-eth-any/hsrp_ipv6

track

track <object-number> | no track

Syntax Description

Syntax Description		
	no	Negate a command or set its defaults
	track	Associates track object to Anycast Bundle
	<i>object-number</i>	Set the object number

Command Mode

- /exec/configure/anycast

track

track <track-obj> | no track <track-obj>

Syntax Description

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

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

Syntax Description	track	Object tracking configuration commands
	<i>object-id</i>	Tracked Object
	interface	Interface to track
	<i>ifnum</i>	Interface type and number
	line-protocol	Track interface line-protocol
	ipv4	IPv4 parameters
	routing	Track interface ipv4 routing
	ipv6	IPv6 parameters
	routingv6	Track interface ipv6 routing

Command Mode

- /exec/configure

track interface priority

```
{ { track { { interface <intf_num> priority <priority_value> } | { <object-num> [ decrement <decrement-value> ] } } } | { no track [ { { interface <intf_num> priority <priority_value> } | { <object-num> [ decrement <decrement-value> ] } } ] } } }
```

Syntax Description

Syntax Description

no	Negate a command or set its defaults
track	Track the availability of another interface/object
interface	Select the tracked interface(Native tracking)
<i>intf_num</i>	
priority	Vr priority used when the tracked interface is down
<i>priority_value</i>	
<i>object-num</i>	Set the object number to the group(Object tracking)
decrement	(Optional) Decrements priority when tracked object goes down
<i>decrement-value</i>	(Optional) Set the value to decrement from priority

Command Mode

- /exec/configure/if-eth-any/vrrp

track running-state track startup-state

[no] track running-state | [no] track startup-state

Syntax Description

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

traffic-share

[no] traffic-share { balanced | { min across-interfaces } }

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
traffic-share	How to compute traffic share over alternate paths	
balanced	Share inversely proportional to metric	
min	All traffic shared among min metric paths	
across-interfaces	Use different interfaces for equal-cost paths	

Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

transmit-delay

```
{ { transmit-delay <delay> } | { no transmit-delay [ <delay> ] } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
transmit-delay		Packet transmission delay
<i>delay</i>		(seconds)

Command Mode

- /exec/configure/router-ospf/router-ospf-vlink /exec/configure/router-ospf/vrf/router-ospf-vlink

transmit-delay

```
{ { transmit-delay <delay> } | { no transmit-delay [ <delay> ] } }
```

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	transmit-delay	Packet transmission delay
	<i>delay</i>	(seconds)

Command Mode

- /exec/configure/router-ospf/vrf/router-ospf-slink

transmit-delay

```
{ { transmit-delay <delay> } | { no transmit-delay [ <delay> ] } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
transmit-delay		Packet transmission delay
<i>delay</i>		(seconds)

Command Mode

- /exec/configure/router-ospf3/router-ospf3-vlink /exec/configure/router-ospf3/vrf/router-ospf3-vlink

transport connection-mode passive

[no | default] transport connection-mode passive

Syntax Description

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-template-neighbor
/exec/configure/router-bgp/router-bgp-neighbor-stmp /exec/configure/router-bgp/router-bgp-neighbor
/exec/configure/router-bgp/router-bgp-vrf-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

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

Syntax Description	
no	(Optional) Negate a command or set its defaults
transport	Configure transport related configuration
email	Configure email transport related configuration
mail-server	Configure SMTP server address (for supporting multiple SMTP-servers)
<i>hostname</i>	SMTP server(DNS name or IPv4 or IPv6 address)
<i>hostipv4</i>	IPv4 address of SMTP server
port	(Optional) Configure SMTP server port (default:25)
<i>i1</i>	(Optional) SMTP server port
use-vrf	(Optional) Configure vrf name
<i>s2</i>	(Optional) vrf name
priority	(Optional) Configure SMTP server priority (1-100) (default:50)
<i>i2</i>	(Optional) SMTP server priority

Command Mode

- /exec/configure/callhome

transport http proxy enable

[no] transport http proxy enable

Syntax Description

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

Syntax Description		
no		Negate a command or set its defaults
transport		Configure transport related configuration
http		Configure transport option for http urls
proxy		Configure proxy for http transport
server		Configure proxy server address and port
<i>hostname</i>		Proxy server name or IP address(DNS name or IPv4 or IPv6 address)
port		(Optional) Configure Proxy server port (default:8080)
<i>i1</i>		(Optional) Proxy server port

Command Mode

- /exec/configure/callhome

transport http use-vrf

transport http use-vrf <s2> | no transport http use-vrf

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	transport	Configure transport related configuration
	http	Configure transport option for http urls
	use-vrf	Configure vrf name
	s2	vrf name

Command Mode

- /exec/configure/callhome

<i>localtp</i>	(Optional) Local Trust Point Name
<i>remotecert</i>	(Optional) Remote Certificate Validation
<i>remotetp</i>	(Optional) Remote Trust Point Name
<i>port</i>	(Optional) Port number
<i>tpportnum</i>	(Optional) Number
<i>access-class</i>	(Optional) Filter incoming connections based on IP access list
<i>aclname</i>	(Optional) IP access list name

Command Mode

- /exec/configure/onep

transport udp

{ [no] transport udp <portnumber> | no transport udp }

Syntax Description

Syntax Description	transport	Transport Destination Port
	udp	Destination UDP Port
	<i>portnumber</i>	Destination UDP Port

Command Mode

- /exec/configure/nfm-exporter

trigger init ingress in-select 3 out-select 0

trigger init { ingress | egress } in-select 3 out-select 0

Syntax Description

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	outer12-outer13-outer14	

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

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

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/eamns

trigger init ingress in-select 3 out-select 1

trigger init { ingress | egress } in-select 3 out-select 1

Syntax Description

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/alamns

trigger init ingress in-select 3 out-select 2

trigger init { ingress | egress } in-select 3 out-select 2

Syntax Description

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	outer12-outer13-outer14	

Command Mode

- /exec/elanms

trigger init ingress in-select 3 out-select 4

trigger init { ingress | egress } in-select 3 out-select 4

Syntax Description

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

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	outer12-outer13-outer14	

Command Mode

- /exec/elanms

trigger init ingress in-select 3 out-select 5 reverse

trigger init { ingress | egress } in-select 3 out-select 5 reverse

Syntax Description

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	outer12-outer13-outer14
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

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	inner12-inner13-inner14	

Command Mode

- /exec/alamns

trigger init ingress in-select 4 out-select 04

trigger init { ingress | egress } in-select 4 out-select 04

Syntax Description

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	inner12-inner13-inner14

Command Mode

- /exec/alamns

trigger init ingress in-select 4 out-select 0 reverse

trigger init { ingress | egress } in-select 4 out-select 0 reverse

Syntax Description

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/elamns

trigger init ingress in-select 4 out-select 1

trigger init { ingress | egress } in-select 4 out-select 1

Syntax Description

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/alamns

trigger init ingress in-select 4 out-select 2

trigger init { ingress | egress } in-select 4 out-select 2

Syntax Description

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	inner12-inner13-inner14	

Command Mode

- /exec/alamns

trigger init ingress in-select 4 out-select 3

trigger init { ingress | egress } in-select 4 out-select 3

Syntax Description

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

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/alamns

trigger init ingress in-select 4 out-select 5 reverse

trigger init { ingress | egress } in-select 4 out-select 5 reverse

Syntax Description

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
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

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

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/elanms

trigger init ingress in-select 5 out-select 05 reverse

trigger init { ingress | egress } in-select 5 out-select 05 reverse

Syntax Description

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	outer12-inner12
reverse	Program reverse ELAM

Command Mode

- /exec/elamns

trigger init ingress in-select 5 out-select 0 reverse

trigger init { ingress | egress } in-select 5 out-select 0 reverse

Syntax Description

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

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

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

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

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/elanms

trigger init ingress in-select 6 out-select 0

trigger init { ingress | egress } in-select 6 out-select 0

Syntax Description

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	

Command Mode

- /exec/elamns

trigger init ingress in-select 6 out-select 0 reverse

trigger init { ingress | egress } in-select 6 out-select 0 reverse

Syntax Description

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

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	outerl3-innerl3	

Command Mode

- /exec/elanms

trigger init ingress in-select 6 out-select 2

trigger init { ingress | egress } in-select 6 out-select 2

Syntax Description

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/alamns

trigger init ingress in-select 6 out-select 3

trigger init { ingress | egress } in-select 6 out-select 3

Syntax Description

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	outerl3-innerl3	

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

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

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/elanms

trigger init ingress in-select 6 out-select 5 reverse

trigger init { ingress | egress } in-select 6 out-select 5 reverse

Syntax Description

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

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

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

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

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

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

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

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

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
reverse	Program reverse ELAM

Command Mode

- /exec/elamns

trigger reset

trigger reset

Syntax Description

Syntax Description

trigger Define A
Trigger

reset Reset triggers

Command Mode

- /exec/elanms

trustpoint server-identity

```
{ trustpoint server-identity <tp-server> } | { no trustpoint server-identity [ <tp-server> ] } | { [ no ] trustpoint
client-verification <tp-client> }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
trustpoint		Trustpoint configuration
server-identity		Server trustpoint
<i>tp-server</i>		Trustpoint name
client-verification		Client trustpoint
<i>tp-client</i>		Trustpoint name

Command Mode

- /exe/configure/onep/tls

ttl-security hops

ttl-security hops <ebgp-ttl> | { no | default } ttl-security hops [<ebgp-ttl>]

Syntax Description

Syntax Description		
no	Negate a command or set its defaults	
default	Inherit values from a peer template	
ttl-security	Enable TTL Security Mechanism	
hops	Specify hop count for remote peer	
<i>ebgp-ttl</i>	EBGP hop count value	

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor-sess

tunnel destination

tunnel destination { { <ip-addr> | <ip-prefix> | { <ip-addr> <ip-mask> } } | <ipv6-addr> } | no tunnel destination
 [<ip-addr> | <ip-prefix> | { <ip-addr> <ip-mask> } | <ipv6-addr>]

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
tunnel		protocol-over-protocol tunneling
destination		destination of tunnel packets
<i>ip-addr</i>		IPv4 address (A.B.C.D)
<i>ip-prefix</i>		IPv4 mask (A.B.C.D/LEN)
<i>ip-mask</i>		IPv4 mask A.B.C.D

Command Mode

- /exec/configure/if-gre-tunnel

tunnel mode

tunnel mode { { gre [ip | ipv6] } | { ipip [ip | ipv6] } | { ipip decapsulate-any [ip | ipv6] } } | no tunnel mode

Syntax Description

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

Command Mode

- /exec/configure/if-any-tunnel

tunnel path-mtu-discovery

[no] tunnel path-mtu-discovery

Syntax Description

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

Syntax Description		
no		Negate a command or set its defaults
tunnel		protocol-over-protocol tunneling
path-mtu-discovery		Enable Path MTU Discovery on tunnel
age-timer		Set PMTUD aging timer
<i>age-time</i>		Aging time
infinite		Disable pathmtu aging timer

Command Mode

- /exec/configure/if-any-tunnel

tunnel path-mtu-discovery min-mtu

tunnel path-mtu-discovery min-mtu <mtu> | no tunnel path-mtu-discovery min-mtu [<mtu>]

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
tunnel		protocol-over-protocol tunneling
path-mtu-discovery		Enable Path MTU Discovery on tunnel
min-mtu		Min pmtud mtu allowed
<i>mtu</i>		Bytes

Command Mode

- /exec/configure/if-any-tunnel

tunnel source

```
tunnel source { <intf> | <ip-prefix> | { <ip-addr> [ <ip-mask> ] } | <ipv6-addr> } | no tunnel source [ <intf>
| <ip-prefix> | { <ip-addr> [ <ip-mask> ] } | <ipv6-addr> ]
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
tunnel		protocol-over-protocol tunneling
source		source of tunnel packets
<i>intf</i>		interface
<i>ip-addr</i>		IPv4 address (A.B.C.D)
<i>ip-prefix</i>		IPv4 address (A.B.C.D/LEN)
<i>ip-mask</i>		(Optional) IPv4 mask A.B.C.D

Command Mode

- /exec/configure/if-gre-tunnel

tunnel ttl

tunnel ttl <ttl_val> | no tunnel ttl [<ttl_val>]

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	tunnel	protocol-over-protocol tunneling
	ttl	set time to live
	<i>ttl_val</i>	time to live value

Command Mode

- /exec/configure/if-any-tunnel

tunnel use-vrf

```
tunnel use-vrf { <vrf-name> | <vrf-known-name> } | no tunnel use-vrf [ { <vrf-name> | <vrf-known-name> } ]
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
tunnel		protocol-over-protocol tunneling
use-vrf		set tunnel vrf membership
<i>vrf-name</i>		VRF name
<i>vrf-known-name</i>		Known VRF name

Command Mode

- /exec/configure/if-any-tunnel



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udf

```
udf <udf_name> { packet-start | { header { outer | inner } { 13 | 14 } } } <offset> <length> | no udf <udf_name>
[ { packet-start | { header { outer | inner } { 13 | 14 } } } <offset> <length> ]
```

Syntax Description

Syntax Description

no	Negate the command
udf	Define the User Defined Field (UDF)
<i>udf_name</i>	Name of the UDF to configure
packet-start	Offset base from packet-start
header	Offset base configuration
outer	Offset base: from outer header
inner	Offset base: from inner header
13	Offset base: from 13 header
14	Offset base: from 14 header
<i>offset</i>	Enter Offset in bytes for UDF (from offset base)
<i>length</i>	Enter Length in bytes for UDF (from offset)

Command Mode

- /exec/configure

udld aggressive

udld aggressive

Syntax Description

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

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

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

Syntax Description		
	no	Negate a command or set its defaults
	udld	UDLD protocol
	aggressive	Enable UDLD aggressive mode for interface(s)

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-base

udld continue-on-err

[no] udld continue-on-err

Syntax Description

Syntax Description		
	no	(Optional) Negate a command or set its defaults
	udld	UDLD protocol
	continue-on-err	Force UDLD continue without disabling the port

Command Mode

- /exec

udld disable

udld disable

Syntax Description

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

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

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

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 <i>*i0*> | no udld message-time

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
udld		UDLD protocol
message-time		Setting the time in seconds between UDLD probe messages
<i>i0</i>		Enter the message timer value [default = 15]

Command Mode

- /exec/configure

udld reset

udld reset

Syntax Description

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

Syntax Description	
<code>no</code>	(Optional)
<code>control</code>	(Optional) enable
<code>source-ip-address</code>	(Optional) <source-port-number>
<code>udp-echo</code>	UDP Echo Operation
<code>hostname</code>	Destination hostname, broadcast disallowed
<code>ip-address</code>	Destination IP address, broadcast disallowed
<code>port</code>	Port Number (Recommended port range between 1025-65534)
<code>enable</code>	(Optional) Enable control packets exchange (default)
<code>disable</code>	(Optional) Disable control packets exchange
<code>source-ip</code>	(Optional) Source address
<code>source-ip-hostname</code>	(Optional) source IP hostname, broadcast disallowed
<code>source-port</code>	(Optional) Source Port
<code>source-port-number</code>	(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

Syntax Description

no	(Optional)
<i>codec</i>	(Optional) g711alaw
<i>codec-numpackets</i>	(Optional) codec-size
<i>source-port</i>	(Optional) interval
<i>codec-numpack</i>	(Optional) <codec-bytes>
<i>source-ip-hostname</i>	(Optional) <source-ip-address>
udp-jitter	UDP Jitter Operation
<i>hostname</i>	Destination hostname, broadcast disallowed
<i>ip-address</i>	Destination IP address, broadcast disallowed
<i>dest-port</i>	Port Number (Recommended port range between 1025-65534)
g711alaw	(Optional) G.711 A Law 64000 bps
g711ulaw	(Optional) G.711 U Law 64000 bps
g729a	(Optional) G.729 8000 bps
advantage-factor	(Optional) Advantage Factor
codec-interval	(Optional) Inter Packet Interval
codec-size	(Optional) Number of bytes in payload
<i>advantage-num</i>	(Optional) Advantage Factor
<i>codec-int</i>	(Optional) Delay
<i>codec-bytes</i>	(Optional) Number of bytes in payload
<i>packet-interval</i>	(Optional) Delay (default 20)
<i>num-packets</i>	(Optional) Number of Packets (default 10)
interval	(Optional) Inter Packet Interval

<code>num-packets</code>	(Optional) Number of Packets to be transmitted
<code>control</code>	(Optional) Enable or disable control packets
<code>enable</code>	(Optional) Enable control packets exchange (default)
<code>disable</code>	(Optional) Disable control packets exchange
<code>source-ip</code>	(Optional) Source address
<code>source-ip-hostname</code>	(Optional) source IP hostname, broadcast disallowed
<code>source-ip-address</code>	(Optional) source IP address, broadcast disallowed
<code>source-port</code>	(Optional) Source Port
<code>src-port</code>	(Optional) Port Number (Recommended port range between 1025-65534)

Command Mode

- /exec/configure/ip-sla

undebug all

`undebug all`

Syntax Description

Syntax Description

`undebug` Disable Debugging functions (See also `debug`)

`all` Disable all debugging

Command Mode

- `/exec`

undebug l2rib

undebug l2rib

Syntax Description

Syntax Description	undebug 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

Syntax Description

	Pipe command output to filter
uniq	Discard all but one of successive identical lines
-c	(Optional) prefix lines by the number of occurrences
-d	(Optional) only print duplicate lines
-f	(Optional) avoid comparing the first N fields
-s	(Optional) avoid comparing the first N characters
-u	(Optional) only print unique lines
-w	(Optional) compare no more than N characters in lines
-i	(Optional) ignore differences in case when comparing
<i>nb-of-fields</i>	(Optional) number of initial fields to ignore
<i>nb-of-chars</i>	(Optional) number of initial chars to ignore
<i>nb-chars-to-compare</i>	(Optional) max number of chars to compare

Command Mode

- /output

unmount slot0

unmount slot0:

Syntax Description

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

Syntax Description		
no		Negate a command or set its defaults
default		Inherit values from a peer template
unsuppress-map		Route-map to selectively unsuppress suppressed routes
<i>unsupp-rmap-name</i>		Route-map name

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv4
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv6

untagged cos

untagged cos <ucos-value> | no untagged cos

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
untagged	default to use for untagged packets on interface
cos	IEEE 802.1Q class of service for QoS classification
<i>ucos-value</i>	COS value

Command Mode

- /exec/configure/if-set-qos

update-rib-always

[no] update-rib-always

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	update-rib-always	Force updates to rib

Command Mode

- /exec/configure/otv-isis

update-source

update-source <interface> | { no | default } update-source [<interface>]

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
default		Inherit values from a peer template
update-source		Specify source of BGP session and updates
<i>interface</i>		Interface name

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor-sess

update adjacency

update adjacency <all>

Syntax Description

Syntax Description

update	Update
--------	--------

adjacency	Display adjacency table
-----------	-------------------------

all	Update all adjcencies
-----	-----------------------

Command Mode

- /exec

update ip route

```
update ip { route | rnh } [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] <all>
```

Syntax Description

Syntax Description		
update		Update
ip		IPv4
route		Update routing information
rnh		Update only RNH information
vrf		(Optional) VRF
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name
vrf-all		(Optional) Display information for all VRFs
all		Update all routes

Command Mode

- /exec

update ipv6 route

```
update ipv6 route [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] <all>
```

Syntax Description

Syntax Description		
update		Update
ipv6		IPv6
route		Update routing information
vrf		(Optional) VRF
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name
vrf-all		(Optional) Display information for all VRFs
all		Update all routes

Command Mode

- /exec

update license

```
update license <uri0> { <license-file> [ force ] | <s0> }
```

Syntax Description

Syntax Description		
update		Update license
license		Update a license file
<i>uri0</i>		Specify URL for the new license file
<i>license-file</i>		License file to be updated
force		(Optional) Force update license (don't prompt)
<i>s0</i>		License file to be updated

Command Mode

- /exec

urib debugs-dump-to-file

urib debugs-dump-to-file

Syntax Description

Syntax Description	urib	Unicast Routing Information Base
	debugs-dump-to-file	Dump all urib debugs to a file

Command Mode

- /exec

use-vrf

[no] use-vrf { management | default | <vrf_name> }

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	use-vrf	vrf to be used to contact servers in this group
	management	management vrf
	default	default vrf
	<i>vrf_name</i>	name of the vrf

Command Mode

- /exec/configure/radius

use-vrf

[no] use-vrf { <vrf-name> | <vrf-known-name> }

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
use-vrf		Display per-VRF information
<i>vrf-name</i>		VRF name
<i>vrf-known-name</i>		Known VRF name

Command Mode

- /exec/configure/ldap

use-vrf

[no] use-vrf { management | default | <vrf_name> }

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
use-vrf	vrf to be used to contact servers in this group
management	management vrf
default	default vrf
<i>vrf_name</i>	name of the vrf

Command Mode

- /exec/configure/tacacs+

user-jid password

[no] user-jid <jid> password [0 <clear> | 7 <encrypted> | <password>]

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
user-jid	User Jabber ID
<i>jid</i>	Enter user Jabber ID
password	Password
0	(Optional) Password that follows should be in clear text
<i>clear</i>	(Optional) Password in clear text
7	(Optional) Password that follows should be in encrypted text
<i>encrypted</i>	(Optional) Encrypted password
<i>password</i>	(Optional) Enter password in clear text

Command Mode

- /exec/configure/fabric-db/server-xmpp

user max-logins

user max-logins <limit>

Syntax Description

Syntax Description	<i>user</i>	Configure system-wide user settings
	<i>max-logins</i>	maximum simultaneous logins
	<i>limit</i>	login session maximum

Command Mode

- /exec/configure

user max-logins

[no] user max-logins [<limit>]

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
user		Configure system-wide user settings
max-logins	maximum simultaneous logins	
<i>limit</i>	(Optional) login session maximum	

Command Mode

- /exec/configure

username

```
{ username <s0> [ password { 0 <s2> | 5 <s3> | <s4> } ] [ expire <s5> [ past ] ] [ priv-lvl <p> ] } | { username
<s0> [ password { 0 <s2> | 5 <s3> | <s4> } ] [ priv-lvl <p> ] [ expire <s5> [ past ] ] } | { username <s0> [
expire <s5> [ past ] ] [ password { 0 <s2> | 5 <s3> | <s4> } ] [ priv-lvl <p> ] } | { username <s0> [ expire
<s5> [ past ] ] [ priv-lvl <p> ] [ password { 0 <s2> | 5 <s3> | <s4> } ] } | { username <s0> [ priv-lvl <p> ] [
password { 0 <s2> | 5 <s3> | <s4> } ] [ expire <s5> [ past ] ] } | { username <s0> [ priv-lvl <p> ] [ expire
<s5> [ past ] ] [ password { 0 <s2> | 5 <s3> | <s4> } ] } | { no username <s7> [ priv-lvl <p> ] }
```

Syntax Description

Syntax Description

no	Negate a command or set its defaults
username	Configure user information.
s0	user name
password	(Optional) Password for the user
0	(Optional) Indicates that the password that follows should be in clear text
s2	(Optional) Password for the user (clear text)
5	(Optional) Indicates that the password that follows should be encrypted
s3	(Optional) strongly encrypted password
s4	(Optional) Password for the user (clear text)
expire	(Optional) Expiry date for this user account(in YYYY-MM-DD format)
s5	(Optional) Expiry in YYYY-MM-DD format
past	(Optional) Expiry date is in past
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

```
{ [ no ] username <name> }
```

Syntax Description

Syntax Description

username	user
	name

<i>name</i>	user
	name

Command Mode

- /exec/configure/dot1x-cred

username

```
{ username <s0> [ password { 0 <s2> | 5 <s3> | <s4> } ] [ expire <s5> [ past ] ] [ role <s6> ] } | { username
<s0> [ password { 0 <s2> | 5 <s3> | <s4> } ] [ role <s6> ] [ expire <s5> [ past ] ] } | { username <s0> [ expire
<s5> [ past ] ] [ password { 0 <s2> | 5 <s3> | <s4> } ] [ role <s6> ] } | { username <s0> [ expire <s5> [ past
] ] [ role <s6> ] [ password { 0 <s2> | 5 <s3> | <s4> } ] } | { username <s0> [ role <s6> ] [ password { 0 <s2>
| 5 <s3> | <s4> } ] [ expire <s5> [ past ] ] } | { username <s0> [ role <s6> ] [ expire <s5> [ past ] ] [ password
{ 0 <s2> | 5 <s3> | <s4> } ] } | { no username <s7> [ role <s8> ] }
```

Syntax Description

Syntax Description

no	Negate a command or set its defaults
username	Configure user information.
s0	user name
password	(Optional) Password for the user
0	(Optional) Indicates that the password that follows should be in clear text
s2	(Optional) Password for the user (clear text)
5	(Optional) Indicates that the password that follows should be encrypted
s3	(Optional) strongly encrypted password
s4	(Optional) Password for the user (clear text)
expire	(Optional) Expiry date for this user account(in YYYY-MM-DD format)
s5	(Optional) Expiry in YYYY-MM-DD format
past	(Optional) Expiry date is in past
role	(Optional) role which the user is to be assigned to
s6	(Optional) role name
s7	user name
s8	(Optional) role name

Command Mode

- /exec/configure

username

```
{ username <s0> { shelltype { vsh | bash } } }
```

Syntax Description

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

Syntax Description	
<i>no</i>	(Optional) Negate a command or set its defaults
<i>username</i>	Configure user information.
<i>s0</i>	user name
<i>sshkey2</i>	Update ssh key for the user for ssh authentication
<i>file</i>	ssh key file
<i>uri0</i>	file containing host public key for the user
<i>line</i>	ssh key for the user

Command Mode

- /exec/configure

username keypair export dsa

```
{ username <s0> keypair export <s1> { dsa | rsa } [ force ] }
```

Syntax Description

Syntax Description	
username	Configure user information.
keypair	Use existing ssh keypair
export	Export keypair to Bootflash/Remote directory
force	(Optional) Force the export of keys even if the destination files are present
dsa	Use DSA Keys
rsa	Use RSA Keys
<i>s0</i>	user name
<i>s1</i>	Enter filename to export to

Command Mode

- /exec/configure

username keypair generate dsa

```
{ username <s0> keypair generate { dsa [ force ] | rsa [ <i0> | <oldrange> ] [ force ] } | no username <s0>
keypair generate [ { dsa [ force ] | rsa [ <i0> | <oldrange> ] [ force ] } ] }
```

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
username	Configure user information.
<i>s0</i>	user name
generate	Generate ssh key pairs
keypair	Generate SSH User Keys
dsa	Generate DSA keys
force	(Optional) Force the generation of keys even if previous ones are present
rsa	Generate RSA keys
<i>i0</i>	(Optional) Enter number of bits (in multiples of 8)
<i>oldrange</i>	(Optional) Enter number of bits

Command Mode

- /exec/configure

username keypair import dsa

```
{ username <s0> keypair import <s1> { dsa | rsa } [ force ] }
```

Syntax Description

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

s0 user name

s1 Enter filename to import

Command Mode

- /exec/configure

username password

[no] username <user> password { 0 <pass1> | 5 <pass2> | <pass3> }

Syntax Description

Syntax Description

no	(Optional) Negate a command or set its defaults
username	Configure user name
<i>user</i>	Username
password	Password for user
0	Indicates that the password that follows should be in clear text
<i>pass1</i>	Password for the user (clear text)
5	Indicates that the password that follows should be encrypted
<i>pass2</i>	strongly encrypted password
<i>pass3</i>	Password for the user (clear text)

Command Mode

- /exec/configure/vmt-conn

username ssh-cert-dn dsa

[no] username <s1> ssh-cert-dn <s2> { dsa | rsa }

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
username	Configure user information.
<i>s1</i>	user name
ssh-cert-dn	Update cert dn
<i>s2</i>	distinguished name to be used
dsa	Use dsa algorithm
rsa	Use rsa algorithm

Command Mode

- /exec/configure

username sshkey

```
{ username <s0> sshkey { file <uri0> | <line> } | no username <s0> sshkey }
```

Syntax Description

Syntax Description	
username	Configure user information.
<i>s0</i>	user name
sshkey	Update ssh key for the user for ssh authentication
file	ssh key file
<i>uri0</i>	file containing host public key for the user
<i>line</i>	ssh key for the user
no	Negate a command or set its defaults

Command Mode

- /exec/configure

userpassphrase

[no] userpassphrase { min-length | max-length | length }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
userpassphrase	user	passphrase
min-length		passphrase minimum length
max-length		passphrase maximum length
length		passphrase min and max length

Command Mode

- /exec/configure

userpassphrase min

userpassphrase { min-length <min-len> | max-length <max-len> } +

Syntax Description

Syntax Description

userpassphrase	user passphrase
min-length	passphrase minimum length
max-length	passphrase maximum length
<i>min-len</i>	minimum length of passphrase
<i>max-len</i>	maximum length of passphrase

Command Mode

- /exec/configure

userprofile trustedCert CRLLookup user-switch-bind user-certdn-match user-pubkey-match attribute-name search-filter base-DN

{ userprofile | trustedCert | CRLLookup | user-switch-bind | user-certdn-match | user-pubkey-match }
attribute-name <s0> search-filter <s1> base-DN <s2>

Syntax Description

Syntax Description		
userprofile		Set the userprofile
trustedCert		Set the trustedCert
CRLLookup		Set the CRLLookup
user-switch-bind		Set the user-switch-bind
user-certdn-match		Set the certificate matching
user-pubkey-match		Set the pubkey matching
attribute-name		LDAP attribute-name
<i>s0</i>		Search Map attribute-name
search-filter		LDAP search-filter
<i>s1</i>		Search Map search-filter
base-DN		LDAP base-DN
<i>s2</i>		Search Map base-DN Name

Command Mode

- /exec/configure/ldap/search



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validate-xml

| validate-xml

Syntax Description

Syntax Description

| Pipe command output to filter

validate-xml validate an xml output according to .xsd definitions

Command Mode

- /output

validate-xml

| validate-xml

Syntax Description

Syntax Description

| Pipe command output to filter

validate-xml validate an xml output according to .xsd definitions

Command Mode

- /output

variance

```
{ { variance <variance> } | { no variance [ <variance> ] } }
```

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	variance	Control load balancing variance
	<i>variance</i>	Metric variance multiplier

Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

vdc

```
vdc <e-vdc> [ id <new_id> ] [ type <vtype> ]
```

Syntax Description

Syntax Description

vdc	Manage Virtual Device Context
<i>e-vdc</i>	Enter Virtual Device Context <vdc-id>
id	(Optional) force this vdc into a specific id
<i>new_id</i>	(Optional) force this vdc into a specific id
type	(Optional) Create vdc with a special set of services
<i>vtype</i>	(Optional) type of vdc

Command Mode

- /exec/configure

vdc

[no] vdc <e-vdc> [force]

Syntax Description

Syntax Description	no	Negate a command or set its defaults
	vdc	Manage Virtual Device Context
	<i>e-vdc</i>	Enter Virtual Device Context <vdc-id>
	force	(Optional) Force ungraceful cleanup

Command Mode

- /exec/configure

vdc combined-hostname

[no] vdc combined-hostname

Syntax Description

Syntax Description

no (Optional) Negate a command or set its defaults

vdc Manage Virtual Device Context

combined-hostname The hostname of non-default vdc's will be <default vdc name>-<nondefault vdc name>

Command Mode

- /exec/configure

vdc_id

[no] vdc_id <id>

Syntax Description

Syntax Description

no Negate a command or set its defaults

vdc_id Manage Virtual Device Context

id Enter Virtual Device Context <vdc-id>

Command Mode

- /exec/configure

vdc resource template

[no] vdc resource template { <name> | <res-mgr-template-known-name> }

Syntax Description

Syntax Description		
no		(Optional) Negate a command or set its defaults
vdc		Manage Virtual Device Context
resource		Configure resource template
template		Configure resource template
<i>name</i>		Resource template name
<i>res-mgr-template-known-name</i>		Resource template name

Command Mode

- /exec/configure

vdc suspend

vdc <en-vdc> suspend

Syntax Description

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

vdc suspend

[no] vdc <en-vdc> suspend

Syntax Description

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

vdp dot1q default static

```
{ vdp dot1q default { static <profile-name> | dynamic } } | { no vdp dot1q default }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
vdp		VDP protocol triggers
static		Static Profile Map: Configure profile name via CLI
	<i>profile-name</i>	
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

Syntax Description		
no		Negate a command or set its defaults
vdp		VDP protocol triggers
static		Static Profile Map: Configure profile name via CLI
	<i>profile-name</i>	
dynamic		Dynamic Profile Map: Retrieve profile name from the external server
dot1q		Dot1Q Encapsulation
	<i>vlan-id</i>	

Command Mode

- /exec/configure/profile-map /exec/configure/profile-map-global

vdp vni default static

{ vdp vni default { static <profile-name> | dynamic } } | { no vdp vni default }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
vdp		VDP protocol triggers
vni		Virtual Network Identifier
static		Static Profile Map: Configure profile name via CLI
dynamic		Dynamic Profile Map: Retrieve profile name from the external server
	<i>profile-name</i>	
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

Syntax Description		
no		Negate a command or set its defaults
vdp		VDP protocol triggers
vni		Virtual Network Identifier
<i>vni-id</i>		
static		Static Profile Map: Configure profile name via CLI
dynamic		Dynamic Profile Map: Retrieve profile name from the external server
<i>profile-name</i>		

Command Mode

- /exec/configure/profile-map /exec/configure/profile-map-global

vendor controller interop

[no] vendor controller interop

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
vendor	vendor
controller	controller
interop	interop

Command Mode

- /exec/configure

verify-data

{ { no | default } verify-data | verify-data }

Syntax Description

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

verify

Syntax Description

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

Syntax Description		
verify		Verify the instance with a configuration profile
profile		Name of the configuration profile
<i>all_conf_profile_name</i>		Enter the name of configuration profile
<i>__readonly__</i>		(Optional)
<i>TABLE_profile_name</i>		(Optional)
<i>missing_param</i>		(Optional)

Command Mode

- /exec/configure/param-inst

verify verbose

verify verbose

Syntax Description

Syntax Description

verify Verify the current configuration session

verbose Verify the current configuration session with more details

Command Mode

- /exec/configure

version

[no] version <s0>

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	version	Version info
	s0	Version

Command Mode

- /exec/configure

version 5

[no] version 5

Syntax Description

Syntax Description

version	Specify the export version
---------	----------------------------

5	Version 5 Export
---	------------------

Command Mode

- /exec/configure/nfm-exporter

version 9

[no] version 9

Syntax Description

Syntax Description

version Specify the export
version

9 Version 9 Export

Command Mode

- /exec/configure/nfm-exporter

virtual-service

[no] virtual-service

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
virtual-service	Virtual service global settings

Command Mode

- /exec/configure

virtual-service

[no] virtual-service <virt_serv_name>

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
---------------------------	----	---

virtual-service	Configure a virtual service
-----------------	-----------------------------

<i>virt_serv_name</i>	Virtual service name
-----------------------	----------------------

Command Mode

- /exec/configure

virtual-service

```
virtual-service { { install name <virt_serv_name> package <file_uri> [ media <target_media> ] } | { upgrade
name <virt_serv_name> package <file_uri> } | { uninstall name <virt_serv_name> } }
```

Syntax Description

Syntax Description

virtual-service	Virtualization manager actions
install	Add a virtual service to install database
upgrade	Upgrade a virtual service package to a different version
name	Name of the virtual service
<i>virt_serv_name</i>	Virtual service name
package	Package location
<i>file_uri</i>	File name (with .ova extension) for the virtual service
media	(Optional) Target media to use to explode the virtual service package
<i>target_media</i>	(Optional) Target media
uninstall	Remove a virtual service from the install database

Command Mode

- /exec

virtual-service connect name console

```
virtual-service connect name <virt_serv_name> { console | aux }
```

Syntax Description

Syntax Description

virtual-service	Virtualization service actions
connect	Request a virtual service shell
name	Name of the virtual service
<i>virt_serv_name</i>	Name of existing virtual service
console	Request a virtual service console shell
aux	Request a virtual service auxiliary console shell

Command Mode

- /exec

virtual-service move name log to

virtual-service move name <virt_serv_name> { log | core } to <dir_uri>

Syntax Description

Syntax Description	
virtual-service	Virtualization service actions
move	Move a virtual service log or core files
name	Name of the virtual service
<i>virt_serv_name</i>	Name of existing virtual service
log	Move log files
core	Move core files
to	Destination directory to move log or core files to
<i>dir_uri</i>	Destination directory name

Command Mode

- /exec

virtual-service reset force

virtual-service reset force

Syntax Description

Syntax Description

virtual-service	Virtualization service actions
reset	Virtualization reset commands
force	Force a non-recoverable reset of all virtualization files

Command Mode

- /exec

virtual IPv6

```
[no] virtual IPv6 { <ip-addr> { <prefix> | <netmask> } } [ ip | { { udp | tcp } { <port_num> | any } } ] [ { arp
| advertise } { enable | disable } ]
```

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
virtual	ITD virtual ip configuration
IPv6	ITD virtual IPv6
<i>prefix</i>	IPv6 prefix length
ip	(Optional) IP Protocol
udp	(Optional) UDP Protocol
tcp	(Optional) TCP Protocol
<i>port_num</i>	(Optional) Port Number
any	(Optional) Any Port Number
arp	(Optional) ARP
advertise	(Optional) advertise
enable	(Optional) Enable
disable	(Optional) Disable

Command Mode

- /exec/configure/itd

virtual IPv6

```
[no] virtual IPv6 { <ip-addr> { <prefix> | <netmask> } } [ ip | { { udp | tcp } { <port_num> | any } } ] [ { arp
| advertise } { enable | disable } ] [ device-group <dgrp_name> ]
```

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
virtual	ITD	virtual ip configuration
IPv6	ITD	virtual IPv6
<i>prefix</i>	IPV6	prefix length
ip	(Optional)	IP Protocol
udp	(Optional)	UDP Protocol
tcp	(Optional)	TCP Protocol
<i>port_num</i>	(Optional)	Port Number
any	(Optional)	Any Port Number
arp	(Optional)	ARP
advertise	(Optional)	advertise
enable	(Optional)	Enable
disable	(Optional)	Disable
device-group	(Optional)	device-group
<i>dgrp_name</i>	(Optional)	VIP device-group name

Command Mode

- /exec/configure/itd

virtual ip

```
[no] virtual ip { <ip-addr> <ip-mask> } [ ip | { { udp | tcp } { <port_num> | any } } ] [ { arp | advertise } { enable | disable } ]
```

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
virtual	ITD virtual ip configuration
ip	ITD virtual ip
<i>ip-addr</i>	IP address in format i.i.i.i
<i>ip-mask</i>	IP network mask in format m.m.m.m
ip	(Optional) IP Protocol
udp	(Optional) UDP Protocol
tcp	(Optional) TCP Protocol
<i>port_num</i>	(Optional) Port Number
any	(Optional) Any Port Number
arp	(Optional) ARP
advertise	(Optional) advertise
enable	(Optional) Enable
disable	(Optional) Disable

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 <dgrp_name> ]
```

Syntax Description

Syntax Description

no	(Optional) Negate a command or set its defaults
virtual	ITD virtual ip configuration
ip	ITD virtual ip
<i>ip-addr</i>	IP address in format i.i.i.i
<i>ip-mask</i>	IP network mask in format m.m.m.m
ip	(Optional) IP Protocol
udp	(Optional) UDP Protocol
tcp	(Optional) TCP Protocol
<i>port_num</i>	(Optional) Port Number
any	(Optional) Any Port Number
arp	(Optional) ARP
advertise	(Optional) advertise
enable	(Optional) Enable
disable	(Optional) Disable
device-group	(Optional) device-group
<i>dgrp_name</i>	(Optional) VIP device-group name

Command Mode

- /exec/configure/itd

vlan

vlan <vlans> | no vlan

Syntax Description

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

vlan access-map

[no] vlan access-map <name> [<seqno>]

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
vlan		Vlan commands
<i>name</i>		List name
access-map		Configure a VLAN access map
<i>seqno</i>	(Optional)	Sequence number

Command Mode

- /exec/configure

vlan designated priority

{ vlan <vlan-id> | bridge-domain <bd-id> } designated priority <prio> | no { vlan <vlan-id> | bridge-domain <bd-id> } designated priority [<prio>]

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
vlan		VLAN Switch Spanning Trees
bridge-domain		Bridge-Domain Switch Spanning Trees
<i>vlan-id</i>		vlan range, Example: 1,3-5,7,9-11
<i>bd-id</i>		Bridge-Domain range, Example: 2,4-5,7,9-11
designated		Set the designated bridge priority for the spanning tree
priority		Set the bridge priority for the spanning tree
<i>prio</i>		bridge priority in increments of 4096

Command Mode

- /exec/configure/spanning-tree/pseudo

vlan filter vlan

[no] vlan filter <name> { vlan-list <vlans> | vlan-list-include-reserved <vlans-include-reserved> }

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
vlan	Vlan commands	
filter	Specify access control for packets	
<i>name</i>	List name	
vlan-list	Specify list of VLANs to apply access control	
<i>vlans</i>	List of VLANs	
vlan-list-include-reserved	Specify list of VLANs to apply access control	
<i>vlans-include-reserved</i>	List of VLANs	

Command Mode

- /exec/configure

vlan root priority

```
{ vlan <vlan-id> | bridge-domain <bd-id> } root priority <prio> | no { vlan <vlan-id> | bridge-domain <bd-id> } root priority [ <prio> ]
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
vlan		VLAN Switch Spanning Trees
bridge-domain		Bridge-Domain Switch Spanning Trees
<i>vlan-id</i>		vlan range, Example: 1,3-5,7,9-11
<i>bd-id</i>		Bridge-Domain range, Example: 2,4-5,7,9-11
root		Set the root bridge priority for the spanning tree
priority		Set the bridge priority for the spanning tree
<i>prio</i>		bridge priority in increments of 4096

Command Mode

- /exec/configure/spanning-tree/pseudo

vmtracker connection

[no] vmtracker connection <connection-name>

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
vmtracker		Configure vmtracker parameters
connection		Specify a host to connect
<i>connection-name</i>		VM host name

Command Mode

- /exec/configure

vmtracker connection refresh

[no] vmtracker connection <connection-name> refresh

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
vmtracker		Configure vmtracker parameters
connection		Specify a host to connect
<i>connection-name</i>		VM host name
refresh		Refresh all host related information

Command Mode

- /exec/configure

vmtracker enable

[no] vmtracker enable

Syntax Description

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

Syntax Description	no	(Optional) Negate a command or set its defaults
	vmtracker	Configure vmtracker parameters
	fabric	Enable VM Tracker Fabric paramters
	auto-config	Enable VM Tracker Fabric AutoConfiguration

Command Mode

- /exec/configure

vmtracker set device-id

[no] vmtracker set device-id <dev-id>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
vmtracker	Configure vmtracker parameters
set	Set vmtracker options
device-id	Set the device-id
<i>dev-id</i>	Device id

Command Mode

- /exec/configure

vn-segment

vn-segment { <segment-id> | <zero-segment-id> } | no vn-segment

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
vn-segment		VN Segment id of the VLAN
<i>segment-id</i>		segment-id
<i>zero-segment-id</i>		segment-id

Command Mode

- /exec/configure/vlan

vni

{ vni <id> } | { no vni [<id>] }

Syntax Description

Syntax Description

no Negate a command or set its defaults

vi Virtual Network Identifier

id vni, Example: 4096,6099

Command Mode

- /exec/configure/vrf

vni default dynamic

{ vni default dynamic } | { no vni default }

Syntax Description

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

Syntax Description	
no	(Optional) Negate a command or set its defaults
vni	Configure Ethernet VPN ID
<i>vni_id</i>	Specify VNI ID
l2	Layer-2 VNI

Command Mode

- /exec/configure/evpn

vpc

vpc [<vpc_num>] | no vpc [<vpc_num>]

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
vpc	Virtual Port Channel configuration
<i>vpc_num</i>	(Optional) specify a Virtual Port Channel number

Command Mode

- /exec/configure/if-eth-port-channel-switch

vpc domain

vpc domain <domain_id> | no vpc domain <domain_id>

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
vpc		Virtual Port Channel configuration
domain		Specify domain
<i>domain_id</i>		domain id

Command Mode

- /exec/configure

vpc orphan-port suspend

[no] vpc orphan-port suspend

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
vpc	Virtual Port Channel configuration
orphan-port	orphan-port (non-vpc port)
suspend	suspend - when vPC secondary peerlink goes down

Command Mode

- /exec/configure/if-eth-phy /exec/configure/if-eth-port-channel-switch /exec/configure/if-eth-port-channel

vpc peer-link

vpc peer-link | no vpc peer-link

Syntax Description

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 suspend

vpc suspend [<n-secs>]

Syntax Description

Syntax Description	vpc	Virtual Port Channel configuration
	suspend	Suspend the vPC on primary
	<i>n-secs</i>	(Optional) Suspension duration in seconds

Command Mode

- /exec/configure/vpc-domain

vpc upgrade-done

vpc upgrade-done

Syntax Description

Syntax Description	
vpc	Virtual Port Channel configuration
upgrade-done	Unlock the cli and remove ISSU state

Command Mode

- /exec

vpn

[no] vpn <otv-isis-vpn-name>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
vpn	Configure IS-IS VPN name eg: Overlay<x>
<i>otv-isis-vpn-name</i>	Overlay name

Command Mode

- /exec/configure/otv-isis

vpn id

vpn id <vpn-id> | no vpn id [<vpn-id>]

Syntax Description

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>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
vrf	Virtual Router Context
<i>vrf-name</i>	VRF name

Command Mode

- /exec/configure/router-bgp

vrf

[no] vrf <vrf-name>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
vrf	Display per-VRF information
<i>vrf-name</i>	VRF name

Command Mode

- /exec/configure/router-ospf

vrf

[no] vrf <vrf-name>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
vrf	Configure RIP VRF information
<i>vrf-name</i>	VRF name

Command Mode

- /exec/configure/router-rip

vrf

[no] vrf <vrf-name>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
vrf	Configure VRF information
<i>vrf-name</i>	VRF name

Command Mode

- /exec/configure/router-eigrp

vrf

{ vrf <name> } | { no vrf <name> }

Syntax Description

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

{ vrf <name> } | { no vrf <name> }

Syntax Description

Syntax Description	no	Negate a command or set its defaults
---------------------------	----	--------------------------------------

vrf	ITD service vrf
-----	-----------------

<i>name</i>	ITD Service VRF name
-------------	----------------------

Command Mode

- /exec/configure/itd

vrf

[no] vrf <vrf-name>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
vrf	Configure ISIS VRF information
<i>vrf-name</i>	VRF name

Command Mode

- /exec/configure/router-isis

vrf

[no] vrf <vrf-name>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
vrf	Display per-VRF information
<i>vrf-name</i>	VRF name

Command Mode

- /exec/configure/router-ospf3

vrf

{ { no | default } vrf |

Syntax Description

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

vrf context

vrf context <vrf-name> | no vrf context { <vrf-name> | <vrf-name> }

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
vrf		Configure VRF parameters
context		Create VRF and enter VRF mode
<i>vrf-name</i>		VRF name
<i>vrf-name</i>		VRF name
<i>vrf-name</i>		VRF name

Command Mode

- /exec/configure

vrf default static

```
{ vrf default { static <profile-name> | dynamic } } | { no vrf default }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
vrf		VRF name
default		Default (wildcard). Match any vrf when there is no specific vrf mapping configured
static		Static Profile Map: Configure profile name via CLI
	<i>profile-name</i>	
dynamic		Dynamic Profile Map: Retrieve profile name from the external server

Command Mode

- /exec/configure/profile-map-global

vrf member

vrf member { <vrf_name> | <vrf-known-name> } | no vrf member [<vrf_name> | <vrf-known-name>]

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
vrf		Configure VPN Routing/Forwarding table
member		Set route's VRF membership
<i>vrf_name</i>		VRF name
<i>vrf-known-name</i>		Known VRF name

Command Mode

- /exec/configure/track

vrf member

vrf member <vrf-name> | no vrf member [<vrf-name>]

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
vrf	Configure VRF parameters
member	Set interface's VRF membership
<i>vrf-name</i>	VRF name

Command Mode

- /exec/configure/if-igp /exec/configure/if-mgmt-ether

vrf static

```
{ vrf <vrf-name> { static <profile-name> | dynamic } } | { no vrf <vrf-name> }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
vrf		VRF name
<i>vrf-name</i>		VRF name
static		Static Profile Map: Configure profile name via CLI
<i>profile-name</i>		
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

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

Syntax Description	
vrrp	VRRP configuration commands
bfd	BFD protocol
<i>peer_intf_ip</i>	Neighbor IP address
no	Negate a command or set its defaults

Command Mode

- /exec/configure/if-eth-any/vrrp

vrrpv2

[no] vrrpv2

Syntax Description

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

Syntax Description	
no	(Optional) Negate a command or set its defaults
vrrpv3	VRRPv3 configuration commands

Command Mode

- /exec/configure

vrrpv3 address-family

[no] vrrpv3 <group_id> address-family <opt_v4>

Syntax Description

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

vrrpv3 address-family

[no] vrrpv3 <group_id> address-family <opt_v6>

Syntax Description

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

vrrs leader

[no] vrrs leader <tag>

Syntax Description

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

Syntax Description	no	(Optional) Negate a command or set its defaults
	vrrs	VRRS Interface configuration commands
	pathway	Configure a VRRS pathway
	<i>name</i>	Name of the VRRS tag to associate with pathway

Command Mode

- /exec/configure/if-eth-any /exec/configure/if-vlan

vsh

| vsh

Syntax Description

Syntax Description

| Pipe command output to filter

❯ the shell that understands cli command

Command Mode

- /output



W Commands

- [watch](#), on page 4218
- [wc](#), on page 4219
- [weight](#), on page 4220
- [weight](#), on page 4221
- [weight](#), on page 4222
- [weight](#), on page 4223
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- [where](#), on page 4225
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- [wred-queue qos-group-map queue-only](#), on page 4230
- [write erase](#), on page 4231
- [write erase boot](#), on page 4232
- [write erase debug](#), on page 4233
- [wrr-queue qos-group-map](#), on page 4234
- [wrr unicast-bandwidth](#), on page 4235

watch

```
watch [ differences ] [ interval <time> ] <watch_cmd>
```

Syntax Description

Syntax Description

<code>watch</code>	execute a program periodically
--------------------	--------------------------------

<code>differences</code>	(Optional) highlight the differences
--------------------------	--------------------------------------

<code>interval</code>	(Optional) watch interval
-----------------------	---------------------------

<code>time</code>	(Optional) interval in seconds
-------------------	--------------------------------

<code>watch_cmd</code>	enter the command you want to watch
------------------------	-------------------------------------

Command Mode

- /exec

WC

| wc [-c | -l | -w]

Syntax Description

Syntax Description

| Pipe command output to filter

w Count words, lines, characters

c (Optional) Output character count

-l (Optional) Output line count

w (Optional) Output word count

Command Mode

- /output

weight

```
{ weight <weight> } | { { no | default } weight [ <weight> ] }
```

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
default	Inherit values from a peer template
weight	Set default weight for routes from this neighbor
<i>weight</i>	Default weight

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af
/exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv4
/exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv6
/exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-label
/exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv6-label

weight

```
{ weight <weight> } | { { no | default } weight [ <weight> ] }
```

Syntax Description

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

Syntax Description	
no	(Optional) Negate a command or set its defaults
weight	weight for traffic distribution
<i>weight-value</i>	weight value

Command Mode

- /exec/configure/itd-dg-node

weight

[no] weight <weight-value>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
weight	weight for traffic distribution
<i>weight-value</i>	weight value

Command Mode

- /exec/configure/itd-dg-node

weighting

```
weighting { <weight-max-val> [ lower <low-thresh> [ upper <upper-thresh> ] | upper <upper-thresh> ] | track
<track-obj> [ decrement <dec-val> ] } | no weighting [ { <weight-max-val> [ lower <low-thresh> [ upper
<upper-thresh> ] | upper <upper-thresh> ] | track <track-obj> [ decrement <dec-val> ] } ]
```

Syntax Description

Syntax Description

<code>no</code>	Negate a command or set its defaults
<code>weighting</code>	Gateway weighting and tracking
<code>weight-max-val</code>	Weighting maximum value
<code>lower</code>	(Optional) Weighting lower threshold
<code>low-thresh</code>	(Optional) Weighting lower threshold value
<code>upper</code>	(Optional) Weighting upper threshold
<code>upper-thresh</code>	(Optional) Weighting upper threshold value
<code>track</code>	Interface tracking
<code>track-obj</code>	Tracked object
<code>decrement</code>	(Optional) Weighting decrement
<code>dec-val</code>	(Optional) Decrement value 1 255

Command Mode

- /exec/configure/if-eth-any/glbp

where

where

Syntax Description

Syntax Description

`where` shows the cli context you are in

Command Mode

- /global

where detail

where detail

Syntax Description

Syntax Description

`where` shows the cli context you are in

`detail` shows each entry on separate line

Command Mode

- /global

which

which

Syntax Description

Syntax Description

which shows which cli commands are available in current mode (see also 'show cli syntax' which has more options)

Command Mode

- /global

wide-metric-only

[no] wide-metric-only

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	wide-metric-only	Advertise only wide metric

Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

window-size

[no] window-size <size>

Syntax Description

Syntax Description	
window-size	Configure Window size
<i>size</i>	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

Syntax Description		
no	(Optional)	Negate the command
wred-queue	Enable queue based ECN marking for specific qos-group	
queue-only	Enable queue based ECN marking	
qos-group-map	Qid value	
<i>qid</i>	Provide qos-group value	

Command Mode

- /exec/configure

write erase

write erase

Syntax Description

write	Write current configuration
erase	Destroys the configuration on persistent media

Command Mode

- /exec

Usage Guidelines

You can erase the configuration on your device to return to the configuration defaults. In this context, **configuration** refers to the startup configuration as displayed by the **show startup** command. No other internal application or process states are cleared.

write erase boot

write erase boot

Syntax Description

Syntax Description

wri Write current configuration

er Destroys the configuration on persistent media

boot Destroys boot configuration on persistent media

Command Mode

- /exec

write erase debug

write erase debug

Syntax Description

Syntax Description

`write` Write current configuration

`erase` Destroys the configuration on persistent media

`debug` Destroys debug configuration on persistent media

Command Mode

- /exec

wrr-queue qos-group-map

[no] wrr-queue qos-group-map <qid> { <cos> } +

Syntax Description

Syntax Description		
no	(Optional) Negate the command	
wrr-queue	Map traffic priority (QG) values to L3 Multicast Queues	
qos-group-map	Qid value	
<i>qid</i>	Provide qid value	
<i>cos</i>	Provide qos-group-map value	

Command Mode

- /exec/configure

wrr unicast-bandwidth

[no] wrr unicast-bandwidth <bw>

Syntax Description

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



X Commands

- [xml](#), on page 4238
- [xml](#), on page 4239
- [xml server max-session](#), on page 4240
- [xml server terminate session](#), on page 4241
- [xml server timeout](#), on page 4242
- [xml server validate](#), on page 4243
- [xml server xml-debug](#), on page 4244
- [xmlin](#), on page 4245
- [xmlin](#), on page 4246
- [xmlin](#), on page 4247
- [xmlin](#), on page 4248
- [xmlout](#), on page 4249

xml

| xml

Syntax Description

Syntax Description

| Pipe command output to filter

xml output in xml format (according to .xsd definitions)

Command Mode

- /output

xml

| xml

Syntax Description

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

Syntax Description		
no	(Optional)	Negate a command or set its defaults
xml	xml agent	
server	xml agent server	
max-session	configure maximum number of xml sessions allowed	
<i>number</i>	number of the sessions	

Command Mode

- /exec/configure

xml server terminate session

xml server terminate session <session_id>

Syntax Description

Syntax Description		
xml		xml agent
server		xml agent server
terminate		command to terminate an XML session
session		terminate an XML session
<i>session_id</i>		sessions number

Command Mode

- /exec

xml server timeout

[no] xml server timeout <value> [<session_id>]

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
xml		xml agent
server		xml agent server
timeout		configure xml agent session timeout
<i>value</i>		timeout in seconds
<i>session_id</i>	(Optional)	xml agent session id

Command Mode

- /exec/configure

xml server validate

[no] xml server validate { all | <session_id> }

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
xml	xml agent
server	xml agent server
validate	command to validate an XML session
all	all sessions
<i>session_id</i>	session number

Command Mode

- /exec/configure

xml server xml-debug

[no] xml server xml-debug

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
xml	xml agent
server	xml server
xml-debug	xml server xml-debug

Command Mode

- /exec/configure

xmlin

xmlin

Syntax Description

Syntax Description

xmlin Convert CLI commands to their XML formats

Command Mode

- /exec

xmlin

| xmlin

Syntax Description

Syntax Description

| Pipe command output to filter

xmlin Convert CLI show commands to their XML formats

Command Mode

- /output

xmlin

xmlin

Syntax Description

Syntax Description

xmlin Convert CLI commands to their XML formats

Command Mode

- /exec

xmlin

| xmlin

Syntax Description

Syntax Description

| Pipe command output to filter

xmlin Convert CLI show commands to their XML formats

Command Mode

- /output

xmlout

| xmlout

Syntax Description

Syntax Description

| Pipe command output to filter

xmlout output in xml format (according to the latest .xsd version)

Command Mode

- /output

