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icmp-echo

```
[no] icmp-echo { <hostname> | <ip-address> | <ipv6-address> } { [ source-ip { <source-ip-hostname> | <source-ip-address> | <source-ipv6-address> } ] [ source-interface <if_index> ] }
```

Syntax Description

Syntax Description	
<code>no</code>	(Optional)
<code>source-ip</code>	(Optional) source-interface
<code>icmp-echo</code>	ICMP Echo Operation
<code>hostname</code>	Destination hostname, broadcast disallowed
<code>ip-address</code>	Destination IP address, broadcast disallowed
<code>source-interface</code>	(Optional) Source Interface (ingress icmp packet interface)
<code>if_index</code>	(Optional) Source Interface
<code>source-ip-hostname</code>	(Optional) source IP hostname, broadcast disallowed
<code>source-ip-address</code>	(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	<i>no</i>	Negate a command or set its defaults
	<i>icmpv6</i>	ICMPv6 Commands
	<i>cfs-queue</i>	<i>cfs-queue</i>
	<i>size</i>	Size for adjacencies to be sent in CFSOE payload

Command Mode

- /exec/configure

icmpv6 library mts-queue

```
{ icmpv6 library mts-queue <size> } | { no icmpv6 library mts-queue }
```

Syntax Description

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	<i>no</i>	Negate a command or set its defaults
	<i>icmpv6</i>	ICMPv6 Commands
	<i>mts-queue</i>	<i>mts-queue</i>
	<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

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		PLB ingress interface
interface		PLB ingress interface
<i>interface-ref</i>		
next-hop	(Optional)	next hop ip address
<i>ip-addr</i>	(Optional)	Next hop IPv4 address connected to ingress intrerface

Command Mode

- /exec/configure/plb /exec/configure/plb-inout

inherit peer-policy

[no] inherit peer-policy <peer-policy-template-name> <policy-preference>

Syntax Description

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

initial-delay

[no] initial-delay <time-in-sec>

Syntax Description

Syntax Description

no (Optional) Negate a command or set its defaults

initial-delay Configure delay interval to connect to the BMP server

time-in-sec Delay value

Command Mode

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

initial-refresh skip

[no] initial-refresh { skip | delay <time-in-sec> }

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	initial-refresh	Configure initial-refresh for the BMP server
	skip	Skip sending the initial route update to the BMP server
	delay	Delay after which the initial route update is sent to the BMP server
	<i>time-in-sec</i>	Delay value

Command Mode

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

inject-map exist-map

[no] inject-map <inject-map-name> exist-map <exist-map-name> [copy-attributes]

Syntax Description

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

`install` Install package

`commit` Commit software patch

patch (Optional) Package
Name

Command Mode

- /exec

install deactivate

install deactivate <patch> + [forced]

Syntax Description

Syntax Description	
install	Install package
deactivate	Deactivate package
<i>patch</i>	Package Name
forced	(Optional) non-interactive

Command Mode

- /exec

install epld

```
install epld <uri1> { { module { <module> } [ force ] } }
```

Syntax Description

Syntax Description

install upgrade software

epld Install EPLD from EPLD image

uri1 Local URI containing EPLD Image

module Upgrade the modules

module Enter the module number to be upgraded

force (Optional) Force Install EPLD from EPLD image

Command Mode

- /exec

install epld

```
install epld <uri> { { module { all } [ force ] } }
```

Syntax Description

Syntax Description

install upgrade software

epld Install EPLD from EPLD image

uri Local URI containing EPLD Image

module Upgrade the modules

all Install all the modules

force (Optional) Force Install EPLD from EPLD image

Command Mode

- /exec

install epld

```
install epld <uri1> { { module { <module> } { primary | golden } [ force ] } }
```

Syntax Description

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
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	
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 <uri1> psu

Syntax Description

Syntax Description

install upgrade software

epld Install EPLD from EPLD image

uri1 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
<i>module</i>	Enter module index
bios	Upgrade module bios
system	(Optional) System Image
<i>uri0</i>	(Optional) Local URI containing the system Image
forced2	(Optional) Force install bios
primary	(Optional) Upgrade the Primary bios
golden	(Optional) Upgrade the Golden bios
forced	(Optional) Force install bios
image	Upgrade module image
forced1	(Optional) Bypass SRG check
system1	(Optional) System Image
<i>uri1</i>	(Optional) Local URI containing the system Image

Command Mode

- /exec

install remove

```
install remove { <patch> | inactive } [ forced ]
```

Syntax Description

Syntax Description

install Install package

remove Remove package

patch Package Name

inactive All inactive except non-committed packages

forced (Optional) Remove package

Command Mode

- /exec

install reset

install reset

Syntax Description

Syntax Description

install Install package

reset Reset software patches and packages to base version

Command Mode

- /exec

Usage Guidelines

Use this command to remove all application persistency files such as patch rpms, third party rpms, and application configuration in the /etc directory other than configuration.

instance-id

[no] instance-id <iid>

Syntax Description

Syntax Description	<i>no</i>	(Optional) Negate a command or set its defaults
	<i>instance-id</i>	Configures Instance-ID for global data-mappings
	<i>iid</i>	24-bit instance-ID value

Command Mode

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

instance

[no] instance <plistinst> [cross-check] | instance <plistinst>

Syntax Description

Syntax Description

no	Negate a command or set its defaults
instance	Configure a parameter list instance
<i>plistinst</i>	Enter the name of the parameter list instance
cross-check	(Optional) Explicitly search for referencing config profile

Command Mode

- /exec/configure/param-list

instance

[no] instance <instance-id> [vlan <vlan-list>]

Syntax Description

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

{ 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

[no] interface <interface-ref>

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
interface	egress interface
	<i>interface-ref</i>

Command Mode

- /exec/configure/itd-port-grp

interface

[no] interface <interface>

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
--	-----------	----------------------

	<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

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

[no] interface <interface-ref>

Syntax Description

Syntax Description

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

interface	egress interface
-----------	------------------

<i>interface-ref</i>

Command Mode

- /exec/configure/itd-port-grp

interface breakout module

interface breakout module <module>

Syntax Description

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 { { group <gaddr> } | { group-range <gaddr_start> to <gaddr_end> } }
```

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	IP Address	
group	Multicast group	
<i>gaddr</i>	IPv4 group address	
group-range	Multicast Group address range	
<i>gaddr_start</i>	First Group address	
to	Range	
<i>gaddr_end</i>	Last Group address	

Command Mode

- /exec/configure/nbm-flow/policy

ip

ip [<ipaddress> | <ipprefix>] | no ip [<ipaddress> | <ipprefix>]

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
<i>ipprefix</i>	(Optional) Virtual IP address and mask length

Command Mode

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

ip

ip { <ipv6address> | autoconfig } | no ip [{ <ipv6address> | autoconfig }]

Syntax Description

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

[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/glbp

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-vsan /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

<code>no</code>	Negate a command or set its defaults
<code>ip</code>	Configure IP features
<code>address</code>	Configure IP address on interface
<code>ip-addr</code>	IP address in format i.i.i.i
<code>ip-mask</code>	IP network mask in format m.m.m.m
<code>ip-prefix</code>	IP prefix and network mask length in format x.x.x.x/m
<code>secondary</code>	Configure additional IP addresses on interface
<code>route-preference</code>	(Optional) URIB route preference for local/direct routes
<code>pref</code>	(Optional) Local/direct route preference
<code>tag</code>	(Optional) URIB route tag value for local/direct routes
<code>tag</code>	(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		
<code>ip</code>		Configure IP features
<code>adjacency</code>		Configure Adjmgr
<code>vrf</code>		(Optional) Display per-VRF information
<code>vrf-name</code>		(Optional) VRF name
<code>vrf-known-name</code>		(Optional) Known VRF name
<code>interface</code>		Display specific interface adjacencies only
<code>ip-addr</code>		IPV4 source address
<code>*</code>		for all adjacencies in this context
<code>forcedownload</code>		Create consistency in UFD

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 | 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	
event	events debug message logs of Adjmgr	
size	Configure the size of the event-hist buffer	
<i>size_in_text</i>	Buffer size	

Command Mode

- /exec/configure

ip adjmgr internal event-history size

```
[no] ip adjmgr internal event-history { control | errors | ipc | stats | ha | cli | sdb | snmp | nb | dme-event | event
} size { <size_in_Kbytes> }
```

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	Configure IP features	
adjmgr	AM information	
internal	Commands for internal use	
event-history	various event logs of Adjmgr	
control	Control logs of Adjmgr	
errors	error logs of Adjmgr	
ipc	ipc debug message logs of Adjmgr	
stats	stats debug message logs of Adjmgr	
ha	ha debug message logs of Adjmgr	
cli	cli related events of Adjmgr	
sdb	sdb debug message logs of Adjmgr	
snmp	snmp debug message logs of Adjmgr	
nb	netbroker debug message logs of Adjmgr	
dme-event	dme event logs of Adjmgr	
event	events debug message logs of Adjmgr	
size	Configure the size of the event-hist buffer	
<i>size_in_Kbytes</i>	Size of the file in kbytes	

Command Mode

- /exec/configure

ip allow address-overlap

[no] ip allow address-overlap

Syntax Description

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 <jroute-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>jroute-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 { [ am mts-batch <batch-timer> ] [ lookup_timeout <l2rib-timer> ] } }
```

Syntax Description

Syntax Description		
ip		Configure IP features
arp		Configure ARP parameters
am		(Optional) Adjacency Manager
mts-batch		(Optional) Configure ARP-AM mts batch count
lookup_timeout		(Optional) arp_l2rib_lookup_timeout
<i>batch-timer</i>		(Optional) Interval in milliseconds
<i>l2rib-timer</i>		(Optional) Interval in seconds

Command Mode

- /exec/configure

ip arp

```
{ ip arp <ip-address> <mac-address> | no ip arp <ip-address> [ <mac-address> ] }
```

Syntax Description

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 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 delete-adj-on-mac-delete

[no] ip arp delete-adj-on-mac-delete

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	Configure IP features	
arp	Configure ARP parameters	
delete-adj-on-mac-delete	Delete the adjacency on MAC delete	

Command Mode

- /exec/configure/if-vlan-common

ip arp event-history size

```
[no] ip arp event-history { packet | event | sync-event | ip-sync-event | control | ha | errors | lcache | lcache-errors
| client-event | client-errors | snmp | cli | suppression-event | suppression-errors | controller-errors | dme-event
} size { <size_in_text> }
```

Syntax Description

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	
no	(Optional) Negate a command or set its defaults	
ip	Configure IP features	
arp	Configure ARP parameters	
inspection	Arp Inspection configuration	
vlan	Enable/Disable ARP Inspection on vlans	
<i>vlan-id</i>	VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19	
dhcp-bindings	(Optional) Logging of packet that match DHCP bindings	
permit	(Optional) Log DHCP Binding Permitted packets	
all	(Optional) Log all packets that match DHCP bindings	
inone	(Optional) Do not log packets	

Command Mode

- /exec/configure

ip arp mts-queue

{ ip arp mts-queue <size> } | { no ip arp mts-queue }

Syntax Description

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, 3 - Peer Sync

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

<code>no</code>	Negate a command or set its defaults
<code>ip</code>	Configure IP features
<code>as-path</code>	BGP autonomous system path filter
<code>access-list</code>	Specify an access list name
<i>aspl-name</i>	AS path access list name
<i>aspl-name</i>	Known as-path access-list name
<code>timeout</code>	(Optional) Timeout to be used for checking regex cpu hog
<i>sec</i>	(Optional) No. of seconds used as timeout
<code>deny</code>	Specify packets to reject
<code>permit</code>	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

<i>no</i>	Negate a command or set its defaults
<i>ip</i>	Configure IP features
<i>community-list</i>	Add a community list entry
<i>standard</i>	Add a standard Community list entry
<i>name</i>	Standard community list name
<i>permit</i>	Specify community to accept
<i>deny</i>	Specify community to reject
<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>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

<i>no</i>	Negate a command or set its defaults
<i>ip</i>	Configure IP features
<i>community-list</i>	Add a community list entry
<i>standard</i>	Add a standard Community list entry
<i>name</i>	Standard community list name
<i>seq</i>	Sequence number of an entry
<i>seq</i>	Sequence number
<i>permit</i>	Specify community to accept
<i>deny</i>	Specify community to reject
<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>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 | ipv6 } 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	
ipv6	Clear IPv6 commands	
eigrp	EIGRP clear commands	
<i>eigrp-ptag</i>	(Optional) Process tag	
event-history	Event History of EIGRP	
bfd	Show bfd log of EIGRP	
size	Configure the size of the event-hist buffer	
<i>size_in_text</i>	Buffer size	
<i>size_in_Kbytes</i>	Size of the file in kbytes	

Command Mode

- /exec/configure

ip eigrp event-history errors

[no] { ip | ipv6 } eigrp [<eigrp-ptag>] event-history { errors | msgs }

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	Clear IP commands	
ipv6	Clear IPv6 commands	
eigrp	EIGRP clear commands	
<i>eigrp-ptag</i>	(Optional) Process tag	
event-history	Event History of EIGRP	
errors	Show error log of EIGRP	
msgs	Show message log of EIGRP	

Command Mode

- /exec/configure

ip eigrp event-history size

```
[no] { ip | ipv6 } eigrp [ <eigrp-ptag> ] event-history { fsm | packet | rib } size { <size_in_text> | <size_in_Kbytes> }
```

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
ip	Clear IP commands	
ipv6	Clear IPv6 commands	
eigrp	EIGRP clear commands	
<i>eigrp-ptag</i>	(Optional) Process tag	
event-history	Event History of EIGRP	
fsm	FSM log of EIGRP	
packet	Packet log of EIGRP	
rib	RIB log of EIGRP	
size	Configure the size of the event-hist buffer	
<i>size_in_text</i>	Buffer size	
<i>size_in_Kbytes</i>	Size of the file in kbytes	

Command Mode

- /exec/configure

ip eigrp internal syslog rate-limit

[no] { ip | ipv6 } eigrp [<eigrp-ptag>] internal syslog rate-limit

Syntax Description

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	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) entries allowed on the interface

Command Mode

- /exec/configure/if-igp

ip igmp static-oif

```
[no] ip igmp static-oif { { <group> [ source <source> ] } | { route-map <route-map-name> } }
```

Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
ip		Configure IP features
igmp		IGMP interface configuration commands
static-oif		Configures static oif for a multicast forwarding entry
<i>group</i>		Multicast group IP address
source	(Optional)	Configures source address for IGMPv3 (S,G) Channel
<i>source</i>	(Optional)	Source IP address
route-map		Static group policy
<i>route-map-name</i>		route-map name

Command Mode

- /exec/configure/if-igp

ip igmp suppress v3-gsq

[no] ip igmp suppress v3-gsq

Syntax Description

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		
<code>no</code>	(Optional)	Negate a command or set its defaults
<code>ip</code>		Configure IP features
<code>mroute</code>		Configure multicast RPF static route
<code>ip-addr</code>		IP prefix in format i.i.i.i
<code>ip-mask</code>		IP network mask in format m.m.m.m
<code>ip-prefix</code>		IP prefix and network mask length in format x.x.x.x/m
<code>next-hop</code>		IP next-hop address in format i.i.i.i
<code>nh-prefix</code>		IP next-hop prefix in format i.i.i.i/m
<code>interface</code>		Interface for interface static multicast routes
<code>pref</code>	(Optional)	Route preference
<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/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-igmp /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-igmp /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
limit	Set limit for Bidir RPs permitted in IPv4 PIM

Command Mode

- /exec/configure /exec/configure/vrf

ip pim border

[no] ip pim border

Syntax Description

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	<i>no</i> (Optional) Negate a command or set its defaults
	<i>ip</i> Configure IP features
	<i>pim</i> PIM global configuration commands
	<i>mtu</i> MTU for IP PIM packet
	<i>size</i> 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
	<i>delay</i>	Delay value in microseconds

Command Mode

- /exec/configure /exec/configure/vrf

ip pim null-reg-routes

```
{ { ip pim null-reg-routes <num> } | { no ip pim null-reg-routes [ <num> ] } }
```

Syntax Description

Syntax Description		
no		Negate a command or set its defaults
ip		Configure IP features
pim		PIM global configuration commands
null-reg-routes		Null registers number of routes
<i>num</i>		Numerical value

Command Mode

- /exec/configure /exec/configure/vrf

ip pim passive

{ ip pim passive | no ip pim passive }

Syntax Description

Syntax Description	
no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM interface configuration commands
passive	Interface in passive mode. No send/rcv

Command Mode

- /exec/configure/if-igp

ip pim pre-build-spt

```
{ { ip pim pre-build-spt [ force ] } | { 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		Negate a command or set its defaults
ip		Configure IP features
pim		PIM global configuration commands
register-rate-limit		Rate limit for PIM data registers
<i>rate</i>		Packets per second

Command Mode

- /exec/configure /exec/configure/vrf

ip pim register-replicate

[no] ip pim register-replicate

Syntax Description

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

<code>no</code>	(Optional) Negate a command or set its defaults
<code>ip</code>	Configure IP features
<code>route</code>	Route information
<code>ip-addr</code>	IP prefix in format i.i.i.i
<code>ip-mask</code>	IP network mask in format m.m.m.m
<code>ip-prefix</code>	IP prefix and network mask length in format x.x.x.x/m
<code>pin-interface</code>	Pin interface
<code>next-hop</code>	IP next-hop address in format i.i.i.i
<code>nh-prefix</code>	IP next-hop prefix in format i.i.i.i/m
<code>interface</code>	Interface for interface static routes
<code>vlan-interface</code>	vlan interface
<code>track</code>	(Optional) Specify the Object to be Tracked
<code>object-num</code>	(Optional) Track Object Number
<code>name</code>	(Optional) Specify name of the next hop
<code>rt-name</code>	(Optional) Name of next hop
<code>pref</code>	(Optional) Route preference
<code>tag</code>	(Optional) Supply tag value with static route
<code>tag-value</code>	(Optional) 32-bit value for tag
<code>vrf</code>	(Optional) VRF for next-hop if different from this vrf
<code>vrf-name</code>	(Optional) VRF name
<code>vrf-known-name</code>	(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	
no	(Optional) Negate a command or set its defaults
ip	Configure IP features
router	Enable a routing process
isis	Intermediate System to Intermediate System (IS-IS)
tag	Process tag

Command Mode

- /exec/configure/if-igp

ip router ospf area

[no] ip router ospf <tag> area { <area-id-ip> | <area-id-int> } [secondaries none]

Syntax Description

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 rsvp signalling hello reroute state-timeout refresh interval

[no] ip rsvp signalling hello reroute state-timeout refresh interval <value>

Syntax Description

Syntax Description		
	ip	Configure IP features
	rsvp	RSVP configuration commands
	signalling	Configure RSVP Signalling information
	hello	RSVP Hello configuration commands
	reroute	RSVP Reroute commands
	state-timeout	RSVP Hello State timeout configuration
	refresh	Configure RSVP Hello refresh behavior for Reroute
	interval	Time between sending Hello Requests for Reroute
	<i>value</i>	Hello interval in msec

Command Mode

- /exec/configure/if-igp

ip secondary

ip { <ipaddress> | <ipprefix> } secondary | no ip { <ipaddress> | <ipprefix> } 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
<i>ipprefix</i>	Virtual IP address and mask length
secondary	Make this IP address a secondary virtual IP address

Command Mode

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

ip sla

[no] ip sla <index>

Syntax Description

Syntax Description

no (Optional)

ip

sla Service Level Agreement (SLA)

index Entry Number

Command Mode

- /exec/configure

ip sla group schedule

```
{ no ip sla group schedule <group-id> | ip sla group schedule <group-id> { { add <operation-ids> | delete
<operation-ids> } | { <operation-ids> schedule-period <schedule-period-seconds> { [ ageout <ageout-seconds>
] [ frequency { <frequency-seconds> | range <random-frequency-range> } ] [ life { forever | <life-seconds>
} ] [ start-time { <hhmm> [ { January | February | March | April | May | June | July | August | September |
October | November | December } <day> | <day> [ January | February | March | April | May | June | July |
August | September | October | November | December ] ] | pending | now | after <hhmm> } ] } + } | reschedule
} }
```

Syntax Description

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		
<code>no</code>		Negate a command or set its defaults
<code>ip</code>		Configure IP features
<code>tcp</code>		Global TCP parameters
<code>synwait-time</code>		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> } ] [ { udf { <udf_name> <udf_val> <udf_mask> } + } ] ] + [ vlan <vlanid> | ingress_intf { <intfid>
| <intfname> } | vlan_priority <vlanpriorityid> ] + [ 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
vlan	(Optional) Configure match based on vlan
ingress_intf	(Optional) Configure match based on ingress interface
vlan_priority	(Optional) Configure match based on priority
udf	(Optional) User defined field match
<i>udf_name</i>	(Optional) UDF name
<i>udf_val</i>	(Optional) UDF value to match
<i>udf_mask</i>	(Optional) Mask to apply to UDF value
<i>vlanid</i>	(Optional) VLAN number
<i>intfid</i>	(Optional) Interface index
<i>intfname</i>	(Optional) Interface name
<i>vlanpriorityid</i>	(Optional) Vlan Priority
<i>src_any</i>	Any
src_key_host	A single source host
src_key_addrgrp	Source address group
<i>src_addrgrp_name</i>	Address group name

<i>dst_any</i>	Any
<i>dst_key_host</i>	A single destination host
<i>dst_key_addrgrp</i>	Destination address group
<i>dst_addrgrp_name</i>	Address group name
<i>dscp</i>	(Optional) Match packets with given dscp value
<i>dscp_num</i>	(Optional) Differentiated services codepoint value
<i>dscp_str</i>	(Optional) Differentiated services codepoint label
<i>flow-label</i>	(Optional) Flow label
<i>flow_num</i>	(Optional) Flow label value
<i>fragments</i>	(Optional) Check non-initial fragments
<i>log</i>	(Optional) Log matches against this entry
<i>time-range</i>	(Optional) Specify a time range
<i>time_range_name</i>	(Optional) Time range name
<i>packet-length</i>	(Optional) Match packets based on layer 3 packet length
<i>plen_op</i>	(Optional) Packet-length operator
<i>plen_range</i>	(Optional) Packet-length range
<i>plen0</i>	(Optional) Packet length
<i>plen1</i>	(Optional) Lower packet length
<i>plen2</i>	(Optional) Higher packet length
<i>capture</i>	(Optional) Enable packet capture on this filter for session
<i>session</i>	(Optional) Session ID <1-48> for this session
<i>session-id</i>	(Optional) Session ID <1-48> for this session
<i>actionv6</i>	(Optional) ActionV6
<i>actionidv6</i>	(Optional) redirect: Ethernet1/1,port-channel1 set-erspan-dscp: <1-63> set-erspan-gre-proto: <1-65535>

Command Mode

- /exec/configure/ipv6acl

ipv6 access-class

[no] ipv6 access-class <name> <inout>

Syntax Description

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 [ { autoconfig [ default ] | [ <ipv6-prefix> [ eui64 ] [ route-preference <pref> ] [ tag <tag> ] [ anycast ] } ] | ipv6 address { autoconfig [ default ] | [ <ipv6-prefix> [ eui64 ] [ route-preference <pref> ] [ tag <tag> ] [ anycast ] }
```

Syntax Description

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
address	Configure IPv6 address on interface
autoconfig	(Optional) Configure IPv6 Stateless address autoconfig
default	(Optional) For SLAAC, adds default route and the nh would be fetched from RA source address
eui64	(Optional) Configure Extended Unique Identifier for the low-order 64 bits
anycast	(Optional) Configure IPv6 anycast address on interface
route-preference	(Optional) U6RIB route preference for local/direct routes
<i>pref</i>	(Optional) Local/direct route preference
tag	(Optional) U6RIB route tag value for local/direct routes
<i>tag</i>	(Optional) Local/direct tag value

Command Mode

- /exec/configure/if-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-igmp /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 ICMPV6	
errors	error logs ICMPV6	
icmpv6-internal	internal debug events of ICMPV6	
nd	ICMPV6 ND debugs	
mld	ICMPV6 MLD Information	
events	ICMPV6 MLD non-periodic events	
debugs	ICMPV6 MLD debug messages	
ha	ICMPV6 debugs for HA events	
sync-event	ICMPV6 debugs for CFS and MCECM related events	
ipv6-sync-event	ICMPV6 debugs for CFS and MCECM related events for I3	
vrf	ICMPV6 VRF related events	
cli	ICMPV6 CLI related events	
size	Configure the size of the event-hist buffer	
<i>size_in_text</i>	Buffer size	
<i>size_in_Kbytes</i>	Size of the file in kbytes	

Command Mode

- /exec/configure

ipv6 icmp test rfc-4884

ipv6 icmp test rfc-4884 <pkt_size>

Syntax Description

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) entries 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		
<code>no</code>	(Optional)	Negate a command or set its defaults
<code>ipv6</code>		Configure IPv6 features
<code>mroute</code>		Configure multicast RPF static route
<code>interface</code>		Interface for interface static multicast routes
<code>pref</code>	(Optional)	Route preference
<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/configure /exec/configure/vrf

ipv6 nd cache limit

{ { ipv6 nd cache limit <max> } | { no ipv6 nd cache limit } } [syslog <rate>]

Syntax Description

Syntax Description	<i>no</i>	Negate a command or set its defaults
	<i>ipv6</i>	Configure IPv6 features
	<i>nd</i>	ICMPv6 Neighbor Discovery commands
	<i>cache</i>	ND cache parameters
	<i>limit</i>	Limit size of ND adjacencies cache
	<i>max</i>	Max no of ND adjacencies configured
	<i>syslog</i>	(Optional) Syslog messages
	<i>rate</i>	(Optional) Syslogs per second

Command Mode

- /exec/configure

ipv6 nd dad attempts

ipv6 nd dad attempts <attempt> | no ipv6 nd dad attempts

Syntax Description

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		
<i>no</i>		Negate a command or set its defaults
<i>ipv6</i>		Configure IPv6 features
<i>nd</i>		ICMPv6 Neighbor Discovery commands
<i>ns-interval</i>		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 neighbor allow-static-neighbor-outside-subnet

[no] ipv6 neighbor allow-static-neighbor-outside-subnet

Syntax Description

Syntax Description		
	no	(Optional) Negate a command or set its defaults
	ipv6	Configure IPv6 features
	neighbor	Configure IPv6 address to layer-2 address mapping
	allow-static-neighbor-outside-subnet	Allow static neighbor outside interface subnet

Command Mode

- /exec/configure

ipv6 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>tll</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		
<code>no</code>		Negate a command or set its defaults
<code>ipv6</code>		Configure IPv6 features
<code>pim</code>		PIM6 global configuration commands
<code>bsr</code>		(Optional) Bootstrap protocol RP-distribution configuration
<code>bsr-candidate</code>		Configure router as a Bootstrap Router candidate
<i>interface</i>		Use IPV6 address of interface for Bootstrap messages
<code>hash-len</code>		(Optional) Hash mask length used in Bootstrap messages
<i>hash-len</i>		(Optional) Hash mask length value
<code>priority</code>		(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		
<code>no</code>		Negate a command or set its defaults
<code>ipv6</code>		Configure IPv6 features
<code>pim</code>		PIM6 interface configuration commands
<code>dr-priority</code>		Configures priority for PIM6 DR election on interface
<code>priority</code>		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
<i>delay</i>		Delay value in microseconds

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 pim jp-policy

```
{ ipv6 pim jp-policy { <route-map-name> | <rtr_pol_name> } [ in | out ] | no ipv6 pim jp-policy [
<route-map-name> | <rtr_pol_name> ] [ in | out ] }
```

Syntax Description

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

modes 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

mode (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
<i>pid</i>	PID from 'show cores
backtrace	display backtrace -- needs enough space to unzip the core file!

Command Mode

- /exec

isis authentication-check

[no] isis authentication-check

Syntax Description

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

Command Mode

- /exec/configure/if-ma

isis bfd

[no] isis bfd [disable]

Syntax Description

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

metric Default metric

level 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_obsolete>]

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
<i>level_obsolete</i>	(Optional)	Level to suppress

Command Mode

- /exec/configure/if-igp

isis priority level

[no] isis priority <priority> { level-1 | level-2 }

Syntax Description

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
	msec	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 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 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 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

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

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

