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icam monitor entries acl

[no] icam monitor entries acl [module <module> [inst <inst>]]

Syntax Description

| | |
|---------------|---|
| no | (Optional) Negate a command or set its defaults |
| icam | intelligent CAM |
| monitor | icam monitor |
| entries | icam monitor entries stats |
| acl | icam monitor entries type ACL |
| module | (Optional) Module Number |
| <i>module</i> | (Optional) Enter Module Number |
| inst | (Optional) ASIC/Forwarding Engine Instance Number |
| <i>inst</i> | (Optional) Enter Instance Number |

Command Mode

- /exec/configure

icam monitor scale

[no] icam monitor scale

Syntax Description

| | |
|---------|---|
| no | (Optional) Negate a command or set its defaults |
| icam | intelligent CAM |
| monitor | icam monitor |
| scale | icam monitor scale |

Command Mode

- /exec/configure

icam monitor system

[no] icam monitor system

Syntax Description

| | |
|---------|---|
| no | (Optional) Negate a command or set its defaults |
| icam | ICAM |
| monitor | icam monitor |
| system | icam monitor system |

Command Mode

- /exec/configure

icam monitor system

[no] icam monitor system { { threshold info <ithres> warning <wthres> critical <cthres> } }

Syntax Description

| | |
|---------------|---|
| no | (Optional) Negate a command or set its defaults |
| icam | ICAM |
| monitor | icam monitor |
| system | icam monitor system |
| threshold | Threshold percentage |
| info | Info threshold percentage |
| <i>ithres</i> | Info threshold percentage |
| warning | Warning threshold percentage |
| <i>wthres</i> | Warning threshold percentage |
| critical | Critical threshold percentage |
| <i>cthres</i> | Critical threshold percentage |

Command Mode

- /exec/configure

icmp-echo

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

Syntax Description

| | |
|---------------------------|---|
| <i>source-ip</i> | (Optional) <source-ip-hostname> |
| <i>source-interface</i> | (Optional) <interface> |
| no | (Optional) |
| icmp-echo | ICMP Echo Operation |
| <i>hostname</i> | Destination hostname, broadcast disallowed |
| <i>ip-address</i> | Destination IP address, broadcast disallowed |
| <i>interface</i> | (Optional) Source Interface |
| <i>source-ip-hostname</i> | (Optional) source IP hostname, broadcast disallowed |
| <i>source-ip-address</i> | (Optional) source IP address, broadcast disallowed |

Command Mode

- /exec/configure/ip-sla

id

[no] id <id>

Syntax Description

| | |
|-----------|---|
| no | (Optional) Negate a command or set its defaults |
| id | Candidate path association group identifier |
| <i>id</i> | Association group Identifier id |

Command Mode

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

id

[no] id <id>

Syntax Description

| | |
|-----------|---|
| no | (Optional) Negate a command or set its defaults |
| id | Candidate path association group identifier |
| <i>id</i> | Association group Identifier id |

Command Mode

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

ignore routable

[no] ignore routable

Syntax Description

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

Command Mode

- /exec/configure/ipacl /exec/configure/ipv6acl

import

import

Syntax Description

| | |
|--------|--------|
| import | import |
|--------|--------|

Command Mode

- /exec/configure

import interface

import interface <if0>

Syntax Description

| | |
|------------|---|
| import | import |
| interface | Interface configuration |
| <i>if0</i> | interface type and number in module/slot format |

Command Mode

- /exec/configure

import l2vpn evpn

import l2vpn evpn

[no | default] import l2vpn evpn [route-map <import-map>] [reoriginate]

Syntax Description

| | |
|-------------------|---|
| no | (Optional) Negate a command or set its defaults |
| default | (Optional) Inherit values from a peer template |
| import | Import the routes into another AF |
| l2vpn | L2VPN |
| evpn | EVPN |
| reoriginate | (Optional) Reoriginate the route with new RT |
| route-map | (Optional) Apply route-map to specify import criteria |
| <i>import-map</i> | (Optional) Route-map name |

Command Mode

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

import map

[no] import map <rmap-name> [evpn]

Syntax Description

| | |
|------------------|---|
| no | (Optional) Negate a command or set its defaults |
| import | VRF import |
| map | Route-map based VRF import |
| <i>rmap-name</i> | Route-map name |
| evpn | (Optional) EVPN |

Command Mode

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

import running-config

import running-config

```
import running-config [ exclude interface ethernet ]
```

Syntax Description

| | |
|----------------|---|
| import | import |
| running-config | running-config |
| exclude | (Optional) Exclude |
| interface | (Optional) Exclude all interfaces of this type |
| ethernet | (Optional) running-config excluding physical interfaces |

Command Mode

- /exec/configure

import vpn unicast

[no | default] import vpn unicast [route-map <import-map>] [reoriginate]

Syntax Description

| | |
|-------------------|---|
| no | (Optional) Negate a command or set its defaults |
| default | (Optional) Inherit values from a peer template |
| import | Import the routes into another AF |
| vpn | L3VPN |
| unicast | unicast |
| reoriginate | (Optional) Reoriginate the route with new RT |
| route-map | (Optional) Apply route-map to specify import criteria |
| <i>import-map</i> | (Optional) Route-map name |

Command Mode

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

import vrf advertise-vpn

import vrf advertise-vpn

[no] import vrf advertise-vpn

Syntax Description

| | |
|---------------|---|
| no | (Optional) Negate a command or set its defaults |
| import | VRF import |
| vrf | Virtual Router Context |
| advertise-vpn | Allow leaked routes to be advertised to VPN |

Command Mode

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

import vrf default map

[no] import vrf default [<prefix-limit>] map <rmap-name> [advertise-vpn]

Syntax Description

| | |
|---------------------|---|
| no | (Optional) Negate a command or set its defaults |
| import | VRF import |
| vrf | Virtual Router Context |
| default | VRF name (default) |
| <i>prefix-limit</i> | (Optional) Maximum prefix limit (Default value is 1000) |
| map | Route-map based VRF import |
| <i>rmap-name</i> | Route-map name |
| advertise-vpn | (Optional) Allow leaked routes to be advertised to VPN |

Command Mode

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

in-label allocate

[no] in-label <static-inlabel> allocate [policy { <prefix> <mask> | <prefix-mask> }]

Syntax Description

| | |
|-----------------------|---|
| no | (Optional) Negate a command or set its defaults |
| in-label | Configure local label assignment and forwarding for the LSP |
| allocate | Allocate this label |
| policy | (Optional) Allocate policy-based IP prefix |
| <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

inband-telemetry exporter

[no] inband-telemetry exporter <exportername>

Syntax Description

| | |
|---------------------|---|
| inband-telemetry | Enable/Disable inband telemetry configuration |
| exporter | Define a events Exporter |
| <i>exportername</i> | Name of event Exporter |

Command Mode

- /exec/configure/config-int

inband-telemetry flow-profile

[no] inband-telemetry flow-profile

Syntax Description

| | |
|------------------|---|
| inband-telemetry | Enable/Disable inband telemetry configuration |
| flow-profile | Define a INT flow-profile |

Command Mode

- /exec/configure/config-int

inband-telemetry monitor

[no] inband-telemetry monitor <monitorname>

Syntax Description

| | |
|--------------------|---|
| inband-telemetry | Enable/Disable inband telemetry configuration |
| monitor | Define a INT Monitor |
| <i>monitorname</i> | Name of INT Monitor |

Command Mode

- /exec/configure/config-int

inband-telemetry queue-profile

[no] inband-telemetry queue-profile [<queue_profilename> | queue-profile-default]

Syntax Description

| | |
|--------------------------|--|
| inband-telemetry | Enable/Disable inband telemetry configuration |
| queue-profile | Define a INT queue_profile |
| <i>queue_profilename</i> | (Optional) Name of INT queue_profile |
| queue-profile-default | (Optional) Queue Profile Default Configuration |

Command Mode

- /exec/configure/config-int

inband-telemetry record

[no] inband-telemetry record <recordname>

Syntax Description

| | |
|-------------------|---|
| inband-telemetry | Enable/Disable inband telemetry configuration |
| record | Define a INT Record |
| <i>recordname</i> | Record name |

Command Mode

- /exec/configure/config-int

inband-telemetry system monitor

[no] inband-telemetry system monitor <monitorname>

Syntax Description

| | |
|--------------------|---------------------------|
| system | global config |
| inband-telemetry | int global settings |
| monitor | int Monitor to be applied |
| <i>monitorname</i> | int Monitor to be applied |

Command Mode

- /exec/configure/config-int

inband-telemetry watchlist ip

[no] inband-telemetry watchlist ip <watchlistname>

Syntax Description

| | |
|----------------------|---|
| inband-telemetry | Enable/Disable inband telemetry configuration |
| watchlist | Define a INT watchlist |
| ip | Configure INT IP watchlist |
| <i>watchlistname</i> | Name of INT watchlist |

Command Mode

- /exec/configure/config-int

include-all

[no] include-all

Syntax Description

| | |
|-------------|---|
| no | (Optional) Negate a command or set its defaults |
| include-all | Configure include-all Affinity Constraints |

Command Mode

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

include-all

[no] include-all

Syntax Description

| | |
|-------------|---|
| no | (Optional) Negate a command or set its defaults |
| include-all | Configure include-all Affinity Constraints |

Command Mode

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

include-any

[no] include-any

Syntax Description

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

Command Mode

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

include-any

[no] include-any

Syntax Description

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

Command Mode

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

include-icv-indicator

[no] include-icv-indicator

Syntax Description

| | |
|-----------------------|---|
| include-icv-indicator | Include ICV Indicator paramset in MKPDU |
|-----------------------|---|

Command Mode

- /exec/configure/macsec-policy

include-sci

[no] include-sci

Syntax Description

| | |
|-------------|-----------------------|
| include-sci | include SCI in sectag |
|-------------|-----------------------|

Command Mode

- /exec/configure/macsec-policy

include profile

[no] include profile { <all_conf_profile_name> }

Syntax Description

| | |
|------------------------------|---|
| no | (Optional) Negate a command or set its defaults |
| include | Include a port-profile |
| profile | config-profile |
| <i>all_conf_profile_name</i> | Enter the name of the profile |

Command Mode

- /exec/configure

include profile any

[no] include profile any

Syntax Description

| | |
|---------|---|
| no | (Optional) Negate a command or set its defaults |
| include | Include a port-profile |
| profile | config-profile |
| any | dynamically include profile during apply |

Command Mode

- /exec/configure

index-limit

[no] index-limit <index>

Syntax Description

| | |
|--------------|---|
| no | (Optional) Negate a command or set its defaults |
| index-limit | index limit configuration for sid list |
| <i>index</i> | index limit |

Command Mode

- /exec/configure/sr/te/pol/live-det

index-limit

[no] index-limit <index>

Syntax Description

| | |
|--------------|---|
| no | (Optional) Negate a command or set its defaults |
| index-limit | index limit configuration for sid list |
| <i>index</i> | index limit |

Command Mode

- /exec/configure/sr/te/color/live-det

index

{ no index <idx> | index <idx> { mpls label <lbl> | segment-routing srv6 <end-sid> | policy-endpoint } }

Syntax Description

| | |
|-----------------|--|
| no | Negate a command or set its defaults |
| index | Next entry index |
| <i>idx</i> | Index number |
| mpls | MPLS Label |
| label | Label Configuration |
| <i>lbl</i> | MPLS Label value |
| segment-routing | Segment routing |
| srv6 | SRv6 SID IPv6 address |
| policy-endpoint | Enable resolution of path in SRTE based on policy endpoint |

Command Mode

- /exec/configure/sr/te/exp_seg_list

ingress-client query-reply

[no] ingress-client query-reply <count>

Syntax Description

| | |
|----------------|---|
| no | (Optional) Negate a command or set its defaults |
| ingress-client | Ingress Client Packet Tuners |
| query-reply | query reply count |
| <i>count</i> | Specify Service Count |

Command Mode

- /exec/configure/mdns-sd

ingress-client query-suppression

ingress-client query-suppression

[no] ingress-client query-suppression

Syntax Description

| | |
|-------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ingress-client | Ingress Client Packet Tuners |
| query-suppression | Ingress Query Suppression |

Command Mode

- /exec/configure/mdns-sd

ingress-client query-suppression packet-gap

[no] ingress-client query-suppression packet-gap <count>

Syntax Description

| | |
|-------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ingress-client | Ingress Client Packet Tuners |
| query-suppression | Ingress Query Suppression |
| packet-gap | Response frequency for a query |
| <i>count</i> | Specify Packet gap |

Command Mode

- /exec/configure/mdns-sd

ingress-mtu

ingress-mtu <mtu_value> | no ingress-mtu

Syntax Description

| | |
|------------------|----------------------------------|
| no | Negate the command |
| ingress-mtu | set/reset ingress port mtu value |
| <i>mtu_value</i> | mtu value |

Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet handle auto 424

ingress-replication protocol bgp

[no] ingress-replication protocol bgp

Syntax Description

| | |
|---------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ingress-replication | Configure ingress replication |
| protocol | Control protocol to use |
| bgp | Border Gateway Protocol |

Command Mode

- /exec/configure/if-nve/vni

ingress-replication protocol static

[no] ingress-replication protocol static

Syntax Description

| | |
|---------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ingress-replication | Configure ingress replication |
| protocol | Control protocol to use |
| static | Static End-point Configuration |

Command Mode

- /exec/configure/if-nve/vni

ingress interface

[no] ingress interface <interface-ref> [next-hop <ip-addr>]

Syntax Description

| | |
|----------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ingress | ITD ingress interface |
| interface | ITD ingress interface |
| <i>interface-ref</i> | |
| next-hop | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| <i>ip-addr</i> | (Optional) Next hop IPv4 address connected to ingress interface |

Command Mode

- /exec/configure/itd /exec/configure/itd-inout

inherit peer-policy

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

Syntax Description

| | |
|----------------------------------|---|
| no | (Optional) Negate a command or set its defaults |
| inherit | Inherit a template |
| peer-policy | Inherit a peer-policy template |
| <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
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-mdt

inherit peer-policy

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

Syntax Description

| | |
|----------------------------------|---|
| no | (Optional) Negate a command or set its defaults |
| inherit | Inherit a template |
| peer-policy | Inherit a peer-policy template |
| <i>peer-policy-template-name</i> | Template name |
| <i>policy-preference</i> | Sequence number |

Command Mode

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

inherit peer-session

inherit peer-session

[no] inherit peer-session <peer-session-template-name>

Syntax Description

| | |
|-----------------------------------|---|
| no | (Optional) Negate a command or set its defaults |
| inherit | Inherit a template |
| peer-session | Inherit a peer-session template |
| <i>peer-session-template-name</i> | Template name |

Command Mode

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

inherit peer

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

Syntax Description

| | |
|---------------------------|---|
| no | (Optional) Negate a command or set its defaults |
| inherit | Inherit a template |
| peer | Inherit a peer template |
| <i>peer-template-name</i> | Peer template name |

Command Mode

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

inherit port-profile

[no] inherit port-profile { <s0> | <s1> }

Syntax Description

| | |
|--------------|---|
| no | (Optional) Negate a command or set its defaults |
| inherit | Inherit a port-profile |
| port-profile | Inherit a port-profile |
| s0 | Enter the name of the profile |
| s1 | Enter the name of the profile |

Command Mode

- /exec/configure/if-any /exec/configure/if-port-channel exec/configure/if-port-channel-range
 /exec/configure/if-ethernet-m /exec/configure/if-ethernet-switch-m /exec/configure/if-te
 /exec/configure/if-pseudowire

initial-delay

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

Syntax Description

| | |
|--------------------|---|
| no | (Optional) Negate a command or set its defaults |
| initial-delay | Configure delay interval to connect to the BMP server |
| <i>time-in-sec</i> | Delay value |

Command Mode

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

initial-refresh skip

initial-refresh skip

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

Syntax Description

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

Command Mode

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

inject-map exist-map

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

Syntax Description

| | |
|------------------------|---|
| no | (Optional) Negate a command or set its defaults |
| inject-map | Routemap which specifies prefixes to inject |
| <i>inject-map-name</i> | Route-map name |
| exist-map | Routemap which specifies exist condition |
| <i>exist-map-name</i> | Route-map name |
| copy-attributes | (Optional) Copy attributes from aggregate |

Command Mode

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

innoshell

innoshell

Syntax Description

| | |
|-----------|-----------|
| innoshell | innoshell |
|-----------|-----------|

Command Mode

- /exec

innoshell cmd

innoshell cmd <cmd>

Syntax Description

| | |
|------------|----------------------------|
| innoshell | innoshell |
| cmd | Specify command |
| <i>cmd</i> | Quoted commands to be exec |

Command Mode

- /exec

innoshell module

innoshell module <module>

Syntax Description

| | |
|---------------|---------------|
| innoshell | innoshell |
| module | Select module |
| <i>module</i> | Module number |

Command Mode

- /exec

innoshell module cmd

innoshell module <module> cmd <cmd>

Syntax Description

| | |
|---------------|----------------------------|
| innoshell | innoshell |
| module | Select module |
| cmd | Specify command |
| <i>module</i> | Module number |
| <i>cmd</i> | Quoted commands to be exec |

Command Mode

- /exec

install

```
install { all [ nxos <uri> | kickstart <uri1> | system <uri3> | package <uri4> | serial | ignore-script-errors ] + [ force ] [ non-disruptive | no-reload | noswitchover | maintenance-mode ] [ bios | no-save ] [ bios-force ] [ non-interruptive ] [ compact ] [ override ] [ skip-kernel-upgrade ] | force-all [ nxos <uri> | serial | ignore-script-errors ] + [ non-disruptive ] [ force ] | all [ epid <uri5> nxos <uri> | nxos <uri> epid <uri5> | package <uri4> | serial | ignore-script-errors ] + [ force ] [ noswitchover | maintenance-mode ] [ bios | no-save ] [ bios-force ] [ non-interruptive ] [ compact ] [ override ] }
```

Syntax Description

| | |
|----------------------|--|
| install | upgrade software |
| all | Upgrade the system |
| ignore-script-errors | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| 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 | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| non-disruptive | (Optional) Upgrades the software without any prompts. This option skips all error and sanity checks. |
| no-save | (Optional) Config not saved. Manually save config before starting install all |
| bios | (Optional) BIOS Only |
| bios-force | (Optional) Forcefully upgrade bios. |
| force | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| non-disruptive | (Optional) Performs an in-service software upgrade (ISSU) to prevent the disruption of data traffic. |
| compact | (Optional) Compact image offline |
| override | (Optional) Override the files in bootflash if they exist if TAR image is used |
| maintenance-mode | (Optional) Enter maintenance-mode before starting disruptive upgrade |
| skip-kernel-upgrade | (Optional) Kernel will not be upgraded |
| nxos | (Optional) boot-variable name |

| | |
|-------------|--|
| <i>uri</i> | (Optional) Enter image uri |
| serial | (Optional) Upgrade linecards in serial |
| package | (Optional) SMU package filename |
| <i>uri4</i> | (Optional) Enter package uri |
| epld | (Optional) epld image name |
| <i>uri5</i> | (Optional) Enter epld image name uri |
| force-all | Force upgrade the system |

Command Mode

- /exec

install activate

install activate

```
install activate <patch> + [ no-immediate-reload ] [ forced ]
```

Syntax Description

| | |
|---------------------|---|
| install | Install package |
| activate | Activate package |
| <i>patch</i> | Package Name |
| no-immediate-reload | (Optional) Skip immediate reload for reload type patches. |
| forced | (Optional) non-interactive |

Command Mode

- /exec

install add

install add { <package-name> | <uri1> } [vrf<vrf-known-name>] [{ gpg-key | [activate [upgrade | downgrade | no-immediate-reload]] [forced] }]

Syntax Description

| | |
|-----------------------|---|
| install | Install package |
| add | Add package |
| <i>package-name</i> | Package name |
| <i>uri1</i> | Enter package uri |
| vrf | (Optional) Display per-VRF information |
| <i>vrf-known-name</i> | (Optional) Known VRF name |
| gpg-key | (Optional) GPG-KEY |
| activate | (Optional) Activate package |
| no-immediate-reload | (Optional) Skip immediate reload for reload type patches. |
| forced | (Optional) non-interactive |
| upgrade | (Optional) Upgrade package |
| downgrade | (Optional) Downgrade package |

Command Mode

- /exec

install all network-os

install all network-os

install all network-os <uri>

Syntax Description

| | |
|------------|--------------------|
| install | upgrade software |
| all | Upgrade the system |
| network-os | non-cisco OS |
| <i>uri</i> | Enter image uri |

Command Mode

- /exec

install commit

install commit [<patch>]

Syntax Description

| | |
|--------------|-------------------------|
| install | Install package |
| commit | Commit software patch |
| <i>patch</i> | (Optional) Package Name |

Command Mode

- /exec

install deactivate

install deactivate

install deactivate <patch> + [no-immediate-reload] [forced]

Syntax Description

| | |
|---------------------|--|
| install | Install package |
| deactivate | Deactivate package |
| <i>patch</i> | Package Name[Note: startup configuration may get affected] |
| no-immediate-reload | (Optional) Skip immediate reload for reload type patches. |
| forced | (Optional) non-interactive |

Command Mode

- /exec

install epld

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

Syntax Description

| | |
|---------------|---|
| install | upgrade software |
| epld | Install EPLD from EPLD image |
| <i>uri1</i> | Local URI containing EPLD Image |
| module | Enter the module number or module range |
| <i>module</i> | x or x-y |
| all | Install all the modules |
| force | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |

Command Mode

- /exec

install feature-set fcoe-npv

[no] install feature-set fcoe-npv

Syntax Description

| | |
|-------------|---|
| no | (Optional) Negate a command or set its defaults |
| install | install a feature-set |
| feature-set | install feature-set |
| fcoe-npv | FCOE-NPV |

Command Mode

- /exec/configure

install feature-set fcoe

[no] install feature-set fcoe

Syntax Description

| | |
|-------------|---|
| no | (Optional) Negate a command or set its defaults |
| install | install a feature-set |
| feature-set | install feature-set |
| fcoe | FCOE |

Command Mode

- /exec/configure

install feature-set mpls

install feature-set mpls

[no] install feature-set mpls

Syntax Description

| | |
|-------------|---|
| no | (Optional) Negate a command or set its defaults |
| install | install a feature-set |
| feature-set | install feature-set |
| mpls | MPLS |

Command Mode

- /exec/configure

install feature-set virtualization

[no] install feature-set virtualization

Syntax Description

| | |
|----------------|---|
| no | (Optional) Negate a command or set its defaults |
| install | install a feature-set |
| feature-set | install feature-set |
| virtualization | VIRTUALIZATION |

Command Mode

- /exec/configure

install license

install license <uri0> [<s0>] [format]

Syntax Description

| | |
|-------------|--|
| install | upgrade software |
| license | install license |
| <i>uri0</i> | Specify URL for license file |
| <i>s0</i> | (Optional) Specify a target name for the license file |
| format | (Optional) Reformat the license file to remove invalid characters and formatting |

Command Mode

- /exec

install remove

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

Syntax Description

| | |
|--------------|--|
| install | Install package |
| remove | Remove package |
| <i>patch</i> | Package Name |
| inactive | All inactive except non-committed packages |
| forced | (Optional) Remove package |

Command Mode

- /exec

install reset

install reset

```
install reset [ nxos { base | full } ]
```

Syntax Description

| | |
|---------|---|
| install | Install package |
| reset | Reload nxos with default packages |
| nxos | (Optional) Reloading with basenxos from fullnxos and vice-versa |
| base | (Optional) Reload with basenxos after reseting |
| full | (Optional) Reload with fullnxos after reseting |

Command Mode

- /exec

install verify

```
install verify { <uri1> | package <patch> }
```

Syntax Description

| | |
|--------------|-------------------------------|
| install | Install package |
| verify | Verify package for signature |
| <i>uri1</i> | Enter package uri |
| package | Enter active/inactive package |
| <i>patch</i> | Package Name |

Command Mode

- /exec

instance-id

instance-id

[no] instance-id <iid>

Syntax Description

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

Command Mode

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

instance

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

Syntax Description

| | |
|--------------------|--|
| no | Negate a command or set its defaults |
| instance | Map vlans to an MST instance |
| <i>instance-id</i> | MST instance id |
| vlan | (Optional) Range of vlans to add to the instance mapping |
| <i>vlan-list</i> | (Optional) vlan range ex: 1-65, 72, 200 - 300 |

Command Mode

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

instance

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

Syntax Description

| | |
|------------------|---|
| no | Negate a command or set its defaults |
| instance | Configure a parameter list instance |
| <i>plistinst</i> | Enter the name of the parameter list instance |
| cross-check | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |

Command Mode

- /exec/configure/param-list

instance vlan

instance <instance-id> vlan <vlan-list>

Syntax Description

| | |
|--------------------|---|
| instance | Map vlans to an MST instance |
| <i>instance-id</i> | MST instance id |
| vlan | Range of vlans to add to the instance mapping |
| <i>vlan-list</i> | vlan range ex: 1-65, 72, 200 - 300 |

Command Mode

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

int-clone-md probe-marker

[no] int-clone-md probe-marker <marker>

Syntax Description

| | |
|--------------|---|
| int-clone-md | Enable/Disable INT Clone MD configuration |
| probe-marker | Give a probe-marker value |

Command Mode

- /exec/configure/config-int-clone-md

int-clone-md sink collector

[no] int-clone-md sink collector <collectorname>

Syntax Description

| | |
|----------------------|---|
| int-clone-md | Enable/Disable INT Clone MD configuration |
| sink | Sink configuration |
| collector | Define a collector |
| <i>collectorname</i> | Name of collector |

Command Mode

- /exec/configure/config-int-clone-md

int-clone-md sink monitor

int-clone-md sink monitor

[no] int-clone-md sink monitor <monitornname>

Syntax Description

| | |
|---------------------|---|
| int-clone-md | Enable/Disable INT Clone MD configuration |
| sink | Sink configuration |
| monitor | Define a sink Monitor |
| <i>monitornname</i> | Name of sink Monitor |

Command Mode

- /exec/configure/config-int-clone-md

int-clone-md sink record

[no] int-clone-md sink record <recordname>

Syntax Description

| | |
|-------------------|---|
| int-clone-md | Enable/Disable INT Clone MD configuration |
| sink | Sink configuration |
| record | Define sink record |
| <i>recordname</i> | Name of sink record |

Command Mode

- /exec/configure/config-int-clone-md

int-clone-md source monitor

int-clone-md source monitor

[no] int-clone-md source monitor <monitorname>

Syntax Description

| | |
|--------------------|---|
| int-clone-md | Enable/Disable INT Clone MD configuration |
| source | Source configuration |
| monitor | Define a source Monitor |
| <i>monitorname</i> | Name of source Monitor |

Command Mode

- /exec/configure/config-int-clone-md

int-clone-md source record

[no] int-clone-md source record <recordname>

Syntax Description

| | |
|-------------------|---|
| int-clone-md | Enable/Disable INT Clone MD configuration |
| source | Source configuration |
| record | Define Source record |
| <i>recordname</i> | Name of source record |

Command Mode

- /exec/configure/config-int-clone-md

int-clone-md system sink monitor

int-clone-md system sink monitor

[no] int-clone-md system sink monitor <monitorname>

Syntax Description

| | |
|--------------------|---|
| int-clone-md | Enable/Disable INT Clone MD configuration |
| system | global config |
| sink | Sink configuration |
| monitor | Sink Monitor to be applied |
| <i>monitorname</i> | Sink Monitor to be applied |

Command Mode

- /exec/configure/config-int-clone-md

int-clone-md system source monitor

[no] int-clone-md system source monitor <monitorname>

Syntax Description

| | |
|--------------------|---|
| int-clone-md | Enable/Disable INT Clone MD configuration |
| system | global config |
| source | Source configuration |
| monitor | Source Monitor to be applied |
| <i>monitorname</i> | Source Monitor to be applied |

Command Mode

- /exec/configure/config-int-clone-md

interface

[no] interface <interface>

Syntax Description

| | |
|------------------|---|
| no | (Optional) Negate a command or set its defaults |
| interface | Configure interfaces |
| <i>interface</i> | Interface Name |

Command Mode

- /exec/configure

interface

{ interface <eid> } | { no interface }

Syntax Description

| | |
|------------|--------------------------------------|
| no | Negate a command or set its defaults |
| interface | Configure ngoam egress interface |
| <i>eid</i> | Configure ngoam egress interface |

Command Mode

- /exec/configure/configngoamprofile

interface

[no] interface <if_list> { [qos-group <ucastqos-grp>] }

Syntax Description

| | |
|---------------------|---|
| no | (Optional) Negate the command |
| interface | Configure capture-scope parameters |
| <i>if_list</i> | List of interfaces |
| qos-group | (Optional) Specify qos-group to be associated |
| <i>ucastqos-grp</i> | (Optional) Value 0-7 |

Command Mode

- /exec/configure/pkt-drop/profile

interface

[no] interface <interface-id>

Syntax Description

| | |
|---------------------|---|
| no | (Optional) Negate a command or set its defaults |
| interface | Applied interface |
| <i>interface-id</i> | Name of interface |

Command Mode

- /exec/configure/static-host/dot1q /exec/configure/static-host/vni

interface

[no] interface <interface>

Syntax Description

| | |
|------------------|---|
| no | (Optional) Negate a command or set its defaults |
| interface | Configure interfaces |
| <i>interface</i> | Interface Name |

Command Mode

- /exec/configure

interface

[no] interface <interface>

Syntax Description

| | |
|------------------|---|
| no | (Optional) Negate a command or set its defaults |
| interface | Configure interfaces |
| <i>interface</i> | Interface Name |

Command Mode

- /exec/configure

interface

[no] interface <interface>

Syntax Description

| | |
|------------------|---|
| no | (Optional) Negate a command or set its defaults |
| interface | Configure interfaces |
| <i>interface</i> | Interface Name |

Command Mode

- /exec/configure

interface

[no] interface <interface>

Syntax Description

| | |
|------------------|---|
| no | (Optional) Negate a command or set its defaults |
| interface | Configure interfaces |
| <i>interface</i> | Interface Name |

Command Mode

- /exec/configure

interface

[no] interface <interface>

Syntax Description

| | |
|------------------|---|
| no | (Optional) Negate a command or set its defaults |
| interface | Configure interfaces |
| <i>interface</i> | Interface Name |

Command Mode

- /exec/configure

interface

[no] interface <interface>

Syntax Description

| | |
|------------------|---|
| no | (Optional) Negate a command or set its defaults |
| interface | Configure interfaces |
| <i>interface</i> | Interface Name |

Command Mode

- /exec/configure

interface

[no] interface <interface>

Syntax Description

| | |
|------------------|---|
| no | (Optional) Negate a command or set its defaults |
| interface | Configure interfaces |
| <i>interface</i> | Interface Name |

Command Mode

- /exec/configure

interface

[no] interface <interface>

Syntax Description

| | |
|------------------|---|
| no | (Optional) Negate a command or set its defaults |
| interface | Configure interfaces |
| <i>interface</i> | Interface Name |

Command Mode

- /exec/configure

interface

interface <interface>

Syntax Description

| | |
|------------------|----------------------|
| interface | Configure interfaces |
| <i>interface</i> | Interface Name |

Command Mode

- /exec/configure

interface

[no] interface <interface>

Syntax Description

| | |
|------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| interface | Configure interfaces |
| <i>interface</i> | Interface Name |

Command Mode

- /exec/configure

interface

[no] interface <interface>

Syntax Description

| | |
|------------------|---|
| no | (Optional) Negate a command or set its defaults |
| interface | Configure interfaces |
| <i>interface</i> | Interface Name |

Command Mode

- /exec/configure

interface

[no] interface <interface>

Syntax Description

| | |
|------------------|---|
| no | (Optional) Negate a command or set its defaults |
| interface | Configure interfaces |
| <i>interface</i> | Interface Name |

Command Mode

- /exec/configure

interface

[no] interface <interface_range>

Syntax Description

| | |
|------------------------|----------------------|
| interface | Configure interfaces |
| <i>interface_range</i> | |

Command Mode

- /exec/configure/config-int-clone-md-source-record

interface

[no] interface <interface_range>

Syntax Description

| | |
|------------------------|----------------------|
| interface | Configure interfaces |
| <i>interface_range</i> | |

Command Mode

- /exec/configure/config-int-clone-md-sink-record

interface

[no] interface <interface-ref>

Syntax Description

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

Command Mode

- /exec/configure/itd-port-grp

interface

[no] interface <intf>

Syntax Description

| | |
|-------------|---|
| no | (Optional) Negate a command or set its defaults |
| interface | Specify the srte interface |
| <i>intf</i> | Interface name |

Command Mode

- /exec/configure/sr/te

interface breakout-profile

interface breakout-profile

interface breakout-profile <profile> | no interface breakout-profile [<profile>]

Syntax Description

| | |
|------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| interface | Configure interfaces |
| breakout-profile | Configure breakout-profile |
| <i>profile</i> | Breakout Profile |

Command Mode

- /exec/configure

interface breakout module

interface breakout module <lem-aware-module> [map <breakout_map>]

Syntax Description

| | |
|-------------------------|---|
| interface | Configure interfaces |
| breakout | Configuring the breakout for a module |
| module | High Bandwidth Module |
| <i>lem-aware-module</i> | High Bandwidth Module number |
| map | (Optional) Breakout Map |
| <i>breakout_map</i> | (Optional) Breakout Map to be applied to all the ports in this module |

Command Mode

- /exec/configure

interface breakout module

[no] interface breakout module <lem-aware-module> [map <breakout_map>]

Syntax Description

| | |
|-------------------------|---|
| no | Negate a command or set its defaults |
| interface | Configure interfaces |
| breakout | Configuring the breakout for a module |
| module | High Bandwidth Module |
| <i>lem-aware-module</i> | High Bandwidth Module number |
| map | (Optional) Breakout Map |
| <i>breakout_map</i> | (Optional) Breakout Map to be applied to all the ports in this module |

Command Mode

- /exec/configure

interface breakout module port

[no] interface breakout module <lem-aware-module> port <port_num> [map <breakout_map>]

Syntax Description

| | |
|-------------------------|--|
| no | Negate a command or set its defaults |
| interface | Configure interfaces |
| breakout | Configuring the breakout for an interface |
| module | High Bandwidth Module |
| <i>lem-aware-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 | (Optional) Breakout Map |
| <i>breakout_map</i> | (Optional) Breakout Map to be applied to the parent port |

Command Mode

- /exec/configure

interface breakout module port map

interface breakout module port map

interface breakout module <lem-aware-module> port <port_num> map <breakout_map>

Syntax Description

| | |
|-------------------------|---|
| interface | Configure interfaces |
| breakout | Configuring the breakout for an interface |
| module | High Bandwidth Module |
| <i>lem-aware-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

interop-enable

[no] interop-enable

Syntax Description

| | |
|----------------|--|
| no | (Optional) Negate a command or set its defaults |
| interop-enable | Enable interoperability with IOS XR boxes in the network |

Command Mode

- /exec/configure/otv-isis

intersight cnmi

intersight cnmi { { patch | post | put } <path_str> data <data_str> | { get | delete } <path_str> }

Syntax Description

| | |
|-----------------|---|
| intersight | intersight feature exec command |
| cnmi | cnmi endpoint |
| patch | patch |
| post | post |
| put | put |
| get | get |
| delete | delete |
| data | Payload in json format |
| <i>path_str</i> | URI of cnmi API, starting with slash(/) |
| <i>data_str</i> | Payload in json format |

Command Mode

- /exec

intersight device-connector unclaim

intersight device-connector unclaim

Syntax Description

| | |
|------------------|---------------------------------|
| intersight | intersight feature exec command |
| device-connector | device-connector |
| unclaim | Force Unclaim |

Command Mode

- /exec

intersight inventory

[no] intersight inventory

Syntax Description

| | |
|------------|---|
| no | (Optional) Negate a command or set its defaults |
| intersight | intersight feature configuration |
| inventory | Inventory Model enable/disable |

Command Mode

- /exec/configure

intersight proxy

[no] intersight proxy <proxy-server> [port <proxy-port>] | no intersight proxy

Syntax Description

| | |
|---------------------|--|
| no | (Optional) Negate a command or set its defaults |
| intersight | intersight feature configuration |
| proxy | Set proxy server, ipv4/ipv6/hostname |
| port | (Optional) Set proxy server port |
| <i>proxy-server</i> | IPv4 or IPv6 address or DNS name of proxy server |
| <i>proxy-port</i> | (Optional) Proxy port number |

Command Mode

- /exec/configure

intersight source-interface

[no] intersight source-interface <ifName> | no intersight source-interface

Syntax Description

| | |
|------------------|---|
| no | (Optional) Negate a command or set its defaults |
| intersight | intersight feature configuration |
| source-interface | Source interface for communication |
| <i>ifName</i> | Source interface name |

Command Mode

- /exec/configure

intersight trustpoint

[no] intersight trustpoint <trustpoint-label> [<host-name>] | no intersight trustpoint

Syntax Description

| | |
|-------------------------|---|
| no | (Optional) Negate a command or set its defaults |
| intersight | intersight feature configuration |
| trustpoint | certificate trustpoint |
| <i>trustpoint-label</i> | trustpoint label name |
| <i>host-name</i> | (Optional) hostname associated with certificate |

Command Mode

- /exec/configure

```
intersight use-vrf
```

intersight use-vrf

[no] intersight use-vrf { default | <vrf-cfg-name> } | no intersight use-vrf

Syntax Description

| | |
|---------------------|---|
| no | (Optional) Negate a command or set its defaults |
| intersight | intersight feature configuration |
| use-vrf | Specify the destination vrf |
| default | Known VRF name |
| <i>vrf-cfg-name</i> | Configurable VRF name |

Command Mode

- /exec/configure

interval

{ interval <interval> }

Syntax Description

| | |
|-----------------|----------|
| interval | Wait |
| <i>interval</i> | Interval |

Command Mode

- /exec/configure/configngoaconnectcheck

interval

[no] interval <timeinterval>

Syntax Description

| | |
|---------------------|--------------------------------------|
| interval | Time interval to be configured |
| <i>timeinterval</i> | time interval in increments of 100ms |

Command Mode

- /exec/configure/config-ssx-record

interval interval

{ [no] interval | interval <interval> }

Syntax Description

| | |
|-----------------|---|
| no | (Optional) Negate a command or set its defaults |
| interval | Configure interval for liveness detection |
| <i>interval</i> | interval in ms |

Command Mode

- /exec/configure/sr/te/live-det

ip

[no] ip { { group <gaddr> } | { group-range <gaddr_start> to <gaddr_end> } }

Syntax Description

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

Command Mode

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

ip

```
{ [ no ] <seqnum> <permitdeny> { ip { <src_prefix> | <src_any> } { <dst_prefix> | <dst_any> } } } | { no <seqnum> }
```

Syntax Description

| | |
|-------------------|---|
| no | (Optional) Negate a command or set its defaults |
| <i>seqnum</i> | Sequence number |
| ip | ip |
| <i>permitdeny</i> | permitdeny |
| <i>src_prefix</i> | A.B.C.D/nn Source network prefix |
| <i>src_any</i> | Any source address |
| <i>dst_prefix</i> | A.B.C.D/nn Destination network prefix |
| <i>dst_any</i> | Any destination address |

Command Mode

- /exec/configure/config-int-watchlist

ip

```
{ { ip <dstip> <srcip> | ipv6 <dstipv6> <srcipv6> } }
```

Syntax Description

| | |
|--------------|--------------------------|
| ip | ip address |
| <i>dstip</i> | Destination ipv4 address |
| <i>srcip</i> | source ipv4 address |
| ipv6 | ipv6 address |

Command Mode

- /exec/configure/configngamccpayload

ip

[no] ip <ipaddr>

Syntax Description

| | |
|---------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | ip address of redundancy group member |
| <i>ipaddr</i> | Redundancy-group node IP address |

Command Mode

- /exec/configure/if-nve/rgrp

ip

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

Syntax Description

| | |
|------------------|---|
| no | Negate a command or set its defaults |
| ip | Enable HSRP IPv4 and set the virtual IP address |
| <i>ipaddress</i> | (Optional) Virtual IP address |
| <i>ipprefix</i> | (Optional) Virtual IP address and mask length |

Command Mode

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

ip

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

Syntax Description

| | |
|------------|---|
| no | Negate a command or set its defaults |
| ip | Enable HSRP IPv6 and set the virtual IP address |
| autoconfig | Obtain address using autoconfiguration |

Command Mode

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

ip

```
{ [ no ] <seqnum> <permitdeny> { ip { <src_prefix> | <src_any> } { <dst_prefix> | <dst_any> } } } | { no <seqnum> }
```

Syntax Description

| | |
|-------------------|---|
| no | (Optional) Negate a command or set its defaults |
| <i>seqnum</i> | Sequence number |
| ip | ip |
| <i>permitdeny</i> | permitdeny |
| <i>src_prefix</i> | A.B.C.D/nn Source network prefix |
| <i>src_any</i> | Any source address |
| <i>dst_prefix</i> | A.B.C.D/nn Destination network prefix |
| <i>dst_any</i> | Any destination address |

Command Mode

- /exec/configure/config-postcard-watchlist

ip

[no] ip { { group <gaddr> } | { group-range <gaddr_start> to <gaddr_end> } }

Syntax Description

| | |
|--------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | IP Address |
| group | Multicast group |
| <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-vrf/nbm-flow-policy/attr

ip access-class

ip access-class

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

Syntax Description

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

Command Mode

- /exec/configure/line

ip access-group

[no] ip access-group <acl-ip-name> <inout>

Syntax Description

| | |
|--------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| access-group | Specify access control for packets |
| <i>acl-ip-name</i> | List name |
| <i>inout</i> | Traffic direction |

Command Mode

- /exec/configure/if-set-acl-l3

ip access-list

[no] ip access-list <acl-ip-name> [client <clienttype> <clientID>]

Syntax Description

| | |
|--------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| access-list | Configure access list |
| <i>acl-ip-name</i> | List name |
| client | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| <i>clienttype</i> | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| <i>clientID</i> | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |

Command Mode

- /exec/configure

ip access-list match-local-traffic

[no] ip access-list match-local-traffic | ip access-list match-local-traffic

Syntax Description

| | |
|---------------------|---|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| access-list | Configure access list |
| match-local-traffic | Enable access-list matching for locally generated traffic |

Command Mode

- /exec/configure

ip address

{ ip address <ip-prefix> | no ip address [<ip-prefix>] }

Syntax Description

| | |
|------------------|---|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| address | Configure IP address on bridge |
| <i>ip-prefix</i> | IP prefix and network mask length in format x.x.x.x/m |

Command Mode

- /exec/configure/app-hosting-bridge

ip address

[no] ip address <ip0>

Syntax Description

| | |
|------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IPv4 address |
| address | Configure IPv4 address |
| <i>ip0</i> | IPv4 address |

Command Mode

- /exec/configure/cfs-static

ip address

[no] ip address [{ <ip-addr> <ip-mask> | <ip-prefix> } [route-preference <pref>] [tag <tag>]] | ip address { <ip-addr> <ip-mask> | <ip-prefix> } [route-preference <pref>] [tag <tag>]

Syntax Description

| | |
|------------------|--|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| address | Configure IP address on interface |
| <i>ip-addr</i> | (Optional) IP address in format i.i.i.i |
| <i>ip-mask</i> | (Optional) IP network mask in format m.m.m.m |
| <i>ip-prefix</i> | (Optional) IP prefix and network mask length in format x.x.x.x/m |
| route-preference | (Optional) URIB route preference for local/direct routes |
| <i>pref</i> | (Optional) Local/direct route preference |
| tag | (Optional) URIB route tag value for local/direct routes |
| <i>tag</i> | (Optional) Local/direct tag value |

Command Mode

- /exec/configure/if-igp /exec/configure/if-mgmt-config /exec/configure/if-mpls-tunnel
 /exec/configure/if-gre-tunnel /exec/configure/if-vsan /exec/configure/if-cpp

ip address dhcp

[no] ip address dhcp

Syntax Description

| | |
|---------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| address | Configure IP address on interface |
| dhcp | Configure IP address from a dhcp server |

Command Mode

- /exec/configure/if-vlan /exec/configure/if-ethernet /exec/configure/if-mgmt-config
/exec/configure/if-ethernet-all /exec/configure/if-sub

ip address ipv6 address port

[no] { ip address <ip4> | ipv6 address <ip6> } port <portnum> [protocol <proto> encoding <encoder>]

Syntax Description

| | |
|----------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Set destination IPv4 address |
| ipv6 | Set destination IPv6 address |
| address | IP address |
| port | Set destination port |
| protocol | (Optional) Set transport protocol |
| encoding | (Optional) Set encoding format |
| <i>ip4</i> | Destination IPv4 Address |
| <i>portnum</i> | Destination port |
| <i>proto</i> | (Optional) |
| <i>encoder</i> | (Optional) Set encoding type for this destination |

Command Mode

- /exec/configure/telemetry/destination-group

ip address secondary

[no] ip address { <ip-addr> <ip-mask> | <ip-prefix> } secondary [use-bia] [route-preference <pref>] [tag <tag>] | ip address { <ip-addr> <ip-mask> | <ip-prefix> } secondary [use-bia] [route-preference <pref>] [tag <tag>]

Syntax Description

| | |
|------------------|---|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| address | Configure IP address on interface |
| <i>ip-addr</i> | IP address in format i.i.i.i |
| <i>ip-mask</i> | IP network mask in format m.m.m.m |
| <i>ip-prefix</i> | IP prefix and network mask length in format x.x.x.x/m |
| secondary | Configure additional IP addresses on interface |
| use-bia | (Optional) Use BIA |
| route-preference | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| <i>pref</i> | (Optional) Local/direct route preference |
| tag | (Optional) URIB route tag value for local/direct routes |
| <i>tag</i> | (Optional) Local/direct tag value |

Command Mode

- /exec/configure/if-igp /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config
 /exec/configure/if-gre-tunnel /exec/configure/if-6to4-tunnel /exec/configure/if-vsan /exec/configure/if-cpp

ip adjacency route distance

ip adjacency route distance

{ ip adjacency route distance <pref> } | { no ip adjacency route distance }

Syntax Description

| | |
|-------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| adjacency | Configure Adjmgr |
| route | route |
| distance | admin-distance |
| <i>pref</i> | preference |

Command Mode

- /exec/configure

ip amt anycast-relay-prefix

{ { ip amt anycast-relay-prefix <prefix> } | { no ip amt anycast-relay-prefix [<prefix>] } | { ipv6 amt anycast-relay-prefix <prefix6> } | { no ipv6 amt anycast-relay-prefix [<prefix6>] } }

Syntax Description

| | |
|----------------------|--|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| ipv6 | Configure IPv6 features |
| amt | AMT global configuration commands |
| anycast-relay-prefix | Configure anycast prefix for AMT relay |
| <i>prefix</i> | IP anycast prefix for AMT relay |

Command Mode

- /exec/configure /exec/configure/vrf

ip amt gateway

[no] ip amt gateway

Syntax Description

| | |
|---------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| amt | AMT global configuration commands |
| gateway | Configures IPv4 AMT gateway functionality |

Command Mode

- /exec/configure /exec/configure/vrf

ip amt join-policy

{ [no] { ip | ipv6 } amt join-policy <jroute-map> [gateway <groute-map>] }

Syntax Description

| | |
|-------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| ipv6 | Configure IPv6 features |
| amt | AMT global configuration commands |
| join-policy | Configures what (S,G) are allowed to be joined |
| <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

| | |
|-------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| ipv6 | Configure IPv6 features |
| amt | AMT global configuration commands |
| qqic | Configure Querier's Query Interval Code |
| <i>qqic-value</i> | QQIC value |

Command Mode

- /exec/configure /exec/configure/vrf

ip amt relay-advertisement-address

```
{ { ip amt relay-advertisement-address <address> } | { no ip amt relay-advertisement-address [ <address> ] } | { ipv6 amt relay-advertisement-address <address6> } | { no ipv6 amt relay-advertisement-address [ <address6> ] } }
```

Syntax Description

| | |
|-----------------------------|---|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| ipv6 | Configure IPv6 features |
| amt | AMT global configuration commands |
| relay-advertisement-address | Address to use by AMT relay |
| <i>address</i> | IP unicast address for AMT relay to use |

Command Mode

- /exec/configure /exec/configure/vrf

ip amt relay

[no] ip amt relay

Syntax Description

| | |
|-------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| amt | AMT global configuration commands |
| relay | Configures IPv4 AMT relay functionality |

Command Mode

- /exec/configure /exec/configure/vrf

ip amt state-limit

{ [no] { ip | ipv6 } amt state-limit <limit> [gateway <route-map>] }

Syntax Description

| | |
|------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| ipv6 | Configure IPv6 features |
| amt | AMT global configuration commands |
| state-limit | Configure the maximum number of (S,G) entries allowed |
| <i>limit</i> | Number of entries total or per AMT gateway |
| gateway | (Optional) Configure state limit per gateway |
| <i>route-map</i> | (Optional) Route-map describing gateway or sets of gateways |

Command Mode

- /exec/configure /exec/configure/vrf

ip amt tunnel-limit

ip amt tunnel-limit

{ { { ip | ipv6 } amt tunnel-limit <limit> } | { no { ip | ipv6 } amt tunnel-limit [<limit>] } }

Syntax Description

| | |
|--------------|---------------------------------------|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| ipv6 | Configure IPv6 features |
| amt | AMT global configuration commands |
| tunnel-limit | Configure the maximum tunnels allowed |
| <i>limit</i> | Number of tunnels |

Command Mode

- /exec/configure /exec/configure/vrf

ip arp

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

Syntax Description

| | |
|--------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| arp | Configure ARP parameters |
| <i>ip-address</i> | IP address |
| <i>mac-address</i> | MAC address |

Command Mode

- /exec/configure/if-igp /exec/configure/if-mgmt-config /exec/configure/if-vlan-common

ip arp allow-static-arp-outside-subnet

ip arp allow-static-arp-outside-subnet

[no] ip arp allow-static-arp-outside-subnet

Syntax Description

| | |
|---------------------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| arp | Configure ARP parameters |
| allow-static-arp-outside-subnet | Allow static ARP outside interface subnet |

Command Mode

- /exec/configure

ip arp cache limit

{ { ip arp cache limit <max> } | { no ip arp cache limit } } [syslog <rate>]

Syntax Description

| | |
|--------|--------------------------------------|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| arp | Configure ARP parameters |
| cache | ARP cache parameters |
| limit | Limit size of ARP adjacencies cache |
| max | Maximum number of ARP entries |
| syslog | (Optional) Syslog messages |
| rate | (Optional) Syslogs per second |

Command Mode

- /exec/configure

ip arp cos

{ ip arp cos <cosval> } | { no ip arp cos }

Syntax Description

| | |
|---------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| arp | Configure ARP parameters |
| cos | COS for ARP packet |
| <i>cosval</i> | COS value |

Command Mode

- /exec/configure

ip arp delete

```
{ ip arp { delete-adj-on-mac-delete | refresh-adj-on-mac-delete <time-out> } | no ip arp { delete-adj-on-mac-delete | refresh-adj-on-mac-delete } }
```

Syntax Description

| | |
|---------------------------|--|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| arp | Configure ARP parameters |
| delete-adj-on-mac-delete | Delete the adjacency on MAC delete |
| refresh-adj-on-mac-delete | Set refresh timer for mac delete trigger |
| <i>time-out</i> | Refresh value in milliseconds |

Command Mode

- /exec/configure/if-vlan-common

ip arp evpn timeout

ip arp evpn timeout

{ ip arp evpn timeout <time-out> } | { no ip arp evpn timeout }

Syntax Description

| | |
|-----------------|---|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| arp | Configure ARP parameters |
| evpn | In EVPN topology |
| timeout | ARP timeout |
| <i>time-out</i> | Refresh in EVPN on host moves. supported range is (2000-30000) ms |

Command Mode

- /exec/configure

ip arp gratuitous hsrp duplicate

{ ip arp gratuitous hsrp duplicate | no ip arp gratuitous hsrp duplicate }

Syntax Description

| | |
|------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| arp | Configure ARP parameters |
| gratuitous | gratuitous |
| hsrp | hsrp |
| duplicate | duplicate address detection |

Command Mode

- /exec/configure/if-igp /exec/configure/if-mgmt-config /exec/configure/if-vlan-common

ip arp gratuitous request

ip arp gratuitous request

{ ip arp gratuitous request | no ip arp gratuitous request }

Syntax Description

| | |
|------------|--|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| arp | Configure ARP parameters |
| gratuitous | gratuitous |
| request | Enable/Disable sending grat. arp request when duplicate address detected |

Command Mode

- /exec/configure/if-igp /exec/configure/if-mgmt-config /exec/configure/if-vlan

ip arp gratuitous update

{ ip arp gratuitous update | no ip arp gratuitous update }

Syntax Description

| | |
|------------|---|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| arp | Configure ARP parameters |
| gratuitous | gratuitous |
| update | Enable/Disable arp cache updates for gratuitous arp |

Command Mode

- /exec/configure/if-igp /exec/configure/if-mgmt-config /exec/configure/if-vlan-common

ip arp inspection filter vlan

ip arp inspection filter vlan

[no] ip arp inspection filter <arp-acl-name> vlan <vlan-range>

Syntax Description

| | |
|---------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| arp | Configure ARP parameters |
| inspection | Arp Inspection configuration |
| filter | Filter |
| <i>arp-acl-name</i> | Access list name |
| vlan | Vlan range |
| <i>vlan-range</i> | VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19 |

Command Mode

- /exec/configure

ip arp inspection log-buffer entries

[no] ip arp inspection log-buffer { entries <number1> }

Syntax Description

| | |
|----------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| arp | Configure ARP parameters |
| inspection | Arp Inspection configuration |
| log-buffer | Log Buffer Configuration |
| entries | Number of entries for log buffer |
| <i>number1</i> | Number of entries for log buffer |

Command Mode

- /exec/configure

ip arp inspection trust

ip arp inspection trust

[no] ip arp inspection trust

Syntax Description

| | |
|------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| arp | Configure ARP parameters |
| inspection | Arp Inspection configuration |
| trust | Configure trust state |

Command Mode

- /exec/configure/if-switching

ip arp inspection validate

[no] ip arp inspection validate { src-mac | dst-mac | ip1 } +

Syntax Description

| | |
|------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| arp | Configure ARP parameters |
| inspection | Arp Inspection configuration |
| validate | Validate addresses |
| src-mac | Validate source MAC address |
| dst-mac | Validate destination MAC address |
| ip1 | Validate IP addresses |

Command Mode

- /exec/configure

ip arp inspection vlan

[no] ip arp inspection vlan <vlan-id> [logging { dhcp-bindings { permit | all | inone } }]

Syntax Description

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

Command Mode

- /exec/configure

ip arp off-list timeout

{ ip arp off-list timeout <time> } | { no ip arp off-list timeout }

Syntax Description

| | |
|-------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| arp | Configure ARP parameters |
| off-list | off-list |
| timeout | Expire time |
| <i>time</i> | Expire time value in seconds |

Command Mode

- /exec/configure

ip arp outside-subnet

ip arp outside-subnet

{ ip arp outside-subnet } | { no ip arp outside-subnet }

Syntax Description

| | |
|----------------|---------------------------------------|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| arp | Configure ARP parameters |
| outside-subnet | Enable outside subnet ARP resolutions |

Command Mode

- /exec/configure

ip arp outside-subnet

{ ip arp outside-subnet } | { no ip arp outside-subnet }

Syntax Description

| | |
|----------------|---------------------------------------|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| arp | Configure ARP parameters |
| outside-subnet | Enable outside subnet ARP resolutions |

Command Mode

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

ip arp rarp fabric-forwarding

ip arp rarp fabric-forwarding

[no] ip arp rarp fabric-forwarding

Syntax Description

| | |
|-------------------|--|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| arp | Configure ARP parameters |
| rarp | Enable/Disable forwarding of RARP messages on fabric |
| fabric-forwarding | Forward RARP requests to the fabric |

Command Mode

- /exec/configure

ip arp rarp fabric-forwarding rate-limit

[no] ip arp rarp fabric-forwarding rate-limit <rate>

Syntax Description

| | |
|-------------------|--|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| arp | Configure ARP parameters |
| rarp | Enable/Disable forwarding of RARP messages on fabric |
| fabric-forwarding | Forward RARP requests to the fabric |
| rate-limit | Forwarding rate of the RARP frames |
| <i>rate</i> | RARP frames-per-second |

Command Mode

- /exec/configure

ip arp suppression-cache

ip arp suppression-cache

```
ip arp suppression-cache { [ clear { local | remote } vlan <vlan-id> [ <ip-address> ] ] | [ download remote
vlan <vlan-id> [ <ip-address> ] ] }
```

Syntax Description

| | |
|-------------------|---|
| clear | (Optional) Clear ARP suppression cache entries |
| ip | Clear IP commands |
| download | (Optional) download local entires 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 timeout

{ ip arp suppression timeout <time-out> } | { no ip arp suppression timeout }

Syntax Description

| | |
|-----------------|--|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| arp | Configure ARP parameters |
| suppression | ARP-suppression based event |
| timeout | ARP timeout |
| <i>time-out</i> | Time-out value in seconds. Time-out = 0 indicates disabled |

Command Mode

- /exec/configure

ip arp synchronize

ip arp synchronize

[no] ip arp synchronize

Syntax Description

| | |
|-------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| arp | ARP |
| synchronize | CFS synchronize |

Command Mode

- /exec/configure/vpc-domain

ip arp timeout

{ ip arp timeout <time-out> } | { no ip arp timeout }

Syntax Description

| | |
|-----------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| arp | Configure ARP parameters |
| timeout | ARP timeout |
| <i>time-out</i> | Time-out value in seconds |

Command Mode

- /exec/configure/config-mgmt /exec/configure/if-igp

ip arp timeout

ip arp timeout

{ ip arp timeout <time-out> } | { no ip arp timeout }

Syntax Description

| | |
|-----------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| arp | Configure ARP parameters |
| timeout | ARP timeout |
| <i>time-out</i> | Time-out value in seconds |

Command Mode

- /exec/configure

ip arp unnum-svi-dup-ip-detection

[no] ip arp unnum-svi-dup-ip-detection

Syntax Description

| | |
|----------------------------|--|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| arp | Configure ARP parameters |
| unnum-svi-dup-ip-detection | Enable duplicate IP detection across VLANs for IP unnumbered SVIs. |

Command Mode

- /exec/configure/if-vlan-common

```
ip arp unnum-svi-sw-replication
```

ip arp unnum-svi-sw-replication

[no] ip arp unnum-svi-sw-replication

Syntax Description

| | |
|--------------------------|--|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| arp | Configure ARP parameters |
| unnum-svi-sw-replication | ARP packets replication in software for unnumbered SVI |

Command Mode

- /exec/configure

ip as-path access-list deny

{ ip as-path access-list <aspl-name> [timeout <sec>] { { deny | permit } <line> } } | { no ip as-path access-list <aspl-name> [timeout <sec>] [{ deny | permit } <line>] }

Syntax Description

| | |
|------------------|---|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| as-path | BGP autonomous system path filter |
| access-list | Specify an access list name |
| <i>aspl-name</i> | AS path access list name |
| <i>aspl-name</i> | Known as-path access-list name |
| timeout | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| <i>sec</i> | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| deny | Specify packets to reject |
| permit | Specify packets to forward |
| <i>line</i> | A |

Command Mode

- /exec/configure

```
ip as-path access-list seq deny
```

ip as-path access-list seq deny

{ ip as-path access-list <aspl-name> seq <seq> [timeout <sec>] { { deny | permit } <line> } } | { no ip as-path access-list <aspl-name> seq <seq> [timeout <sec>] [{ deny | permit } <line>] }

Syntax Description

| | |
|------------------|---|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| as-path | BGP autonomous system path filter |
| access-list | Specify an access list name |
| <i>aspl-name</i> | AS path access list name |
| <i>aspl-name</i> | Known as-path access-list name |
| seq | Sequence number of an entry |
| <i>seq</i> | Sequence number |
| timeout | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| <i>sec</i> | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| deny | Specify packets to reject |
| permit | Specify packets to forward |
| <i>line</i> | A |

Command Mode

- /exec/configure

ip authentication key-chain eigrp

[no] { ip | ipv6 } authentication key-chain eigrp <eigrp-ptag> <chain>

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 |
| eigrp | EIGRP interface configuration commands |

Command Mode

- /exec/configure/if-igp

ip authentication mode eigrp md5

ip authentication mode eigrp md5

[no] { ip | ipv6 } authentication mode eigrp <eigrp-ptag> md5

Syntax Description

| | |
|-------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| ipv6 | Configure IPv6 features |
| authentication | Configures EIGRP authentication subcommands |
| mode | mode |
| eigrp | EIGRP interface configuration commands |
| <i>eigrp-ptag</i> | Process tag |
| md5 | Keyed message digest |

Command Mode

- /exec/configure/if-igp

ip auto-discard

[no] ip auto-discard

Syntax Description

| | |
|--------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| auto-discard | Auto 0.0.0.0/0 discard route |

Command Mode

- /exec/configure /exec/configure/vrf

ip bandwidth-percent eigrp

ip bandwidth-percent eigrp

{ { { ip | ipv6 } bandwidth-percent eigrp <eigrp-ptag> <percent> } | { no { ip | ipv6 } bandwidth-percent eigrp <eigrp-ptag> [<percent>] } }

Syntax Description

| | |
|-------------------|---|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| ipv6 | Configure IPv6 features |
| bandwidth-percent | Configures IP-EIGRP bandwidth limit |
| eigrp | EIGRP interface configuration commands |
| <i>eigrp-ptag</i> | Process tag |
| <i>percent</i> | Maximum bandwidth percentage that EIGRP may use |
| <i>eigrp-ptag</i> | |

Command Mode

- /exec/configure/if-igp

ip bandwidth eigrp

{ { { ip | ipv6 } bandwidth eigrp <eigrp-ptag> <bw> } | { no { ip | ipv6 } bandwidth eigrp <eigrp-ptag> [<bw>] } }

Syntax Description

| | |
|-------------------|--|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| ipv6 | Configure IPv6 features |
| bandwidth | Set bandwidth for interface used in EIGRP metric calculation |
| eigrp | EIGRP interface configuration commands |
| <i>eigrp-ptag</i> | Process tag |
| <i>bw</i> | Bandwidth in kilobits |
| <i>eigrp-ptag</i> | |

Command Mode

- /exec/configure/if-igp

ip community-list expanded deny

ip community-list expanded deny

{ ip community-list expanded <name> [timeout <sec>] { deny | permit } <line> } | { no ip community-list expanded <name> [timeout <sec>] [{ deny | permit } <line>] }

Syntax Description

| | |
|----------------|---|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| community-list | Add a community list entry |
| expanded | Add an expanded community list entry |
| <i>name</i> | Name of expanded community list |
| timeout | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| <i>sec</i> | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| deny | Specify community to reject |
| permit | Specify community to accept |
| <i>line</i> | Regular-expression(must) |

Command Mode

- /exec/configure

ip community-list expanded seq deny

{ ip community-list expanded <name> seq <seq> [timeout <sec>] { deny | permit } <line> } | { no ip community-list expanded <name> seq <seq> [timeout <sec>] [{ deny | permit } <line>] }

Syntax Description

| | |
|----------------|---|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| community-list | Add a community list entry |
| expanded | Add an expanded community list entry |
| <i>name</i> | Name of expanded community list |
| <i>seq</i> | Sequence number of an entry |
| <i>seq</i> | Sequence number |
| timeout | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| <i>sec</i> | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| deny | Specify community to reject |
| permit | Specify community to accept |
| <i>line</i> | Regular-expression(must) |

Command Mode

- /exec/configure

ip delay eigrp

ip delay eigrp

```
{ { { ip | ipv6 } delay eigrp <eigrp-ptag> <delay> [ picoseconds ] } | { no { ip | ipv6 } delay eigrp <eigrp-ptag> [ <delay> ] [ picoseconds ] } }
```

Syntax Description

| | |
|-------------------|--|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| ipv6 | Configure IPv6 features |
| delay | Set delay for interface used in EIGRP metric calculation |
| eigrp | EIGRP interface configuration commands |
| <i>eigrp-ptag</i> | Process tag |
| <i>delay</i> | Throughput delay |
| picoseconds | (Optional) Delay units in picoseconds |
| <i>eigrp-ptag</i> | |

Command Mode

- /exec/configure/if-igp

ip destination

```
{ ip { destination | source } <addr> } | { no ip { destination | source } }
```

Syntax Description

| | |
|-------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ip | specify flow ipv4 address |
| source | specify flow source ipv4 address |
| destination | specify flow destination ip address |
| <i>addr</i> | ipv4 address |

Command Mode

- /exec/configure/configngoaamprofileflow

ip dhcp option82 suboption circuit-id

ip dhcp option82 suboption circuit-id

[no] ip dhcp option82 suboption circuit-id <format-string>

Syntax Description

| | |
|----------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| dhcp | Configure DHCP snooping or relay |
| option82 | DHCP option82 |
| suboption | DHCP option82 suboption information |
| circuit-id | DHCP option82 suboption circuit-id string configuration |
| <i>format-string</i> | Format string |

Command Mode

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

ip dhcp packet strict-validation

[no] ip dhcp packet strict-validation

Syntax Description

| | |
|-------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| dhcp | Configure DHCP snooping or relay |
| packet | DHCP packet |
| strict-validation | DHCP packet strict validation |

Command Mode

- /exec/configure/

ip dhcp relay

[no] ip dhcp relay

Syntax Description

| | |
|-------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| dhcp | Configure DHCP snooping or relay |
| relay | Configure relay agent |

Command Mode

- /exec/configure

ip dhcp relay address

[no] ip dhcp relay address [<ip-addr-val> [use-vrf <vrf-name>]]

Syntax Description

| | |
|--------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| dhcp | Configure DHCP snooping or relay |
| relay | Configure relay agent |
| address | Configure DHCP server to refer to |
| <i>ip-addr-val</i> | (Optional) IP address |
| use-vrf | (Optional) helper address VRF membership |
| <i>vrf-name</i> | (Optional) VRF name |

Command Mode

- /exec/configure/if-igp /exec/configure/ppm-ethernet-switch /exec/configure/ppm-port-channel-switch

ip dhcp relay dai

[no] ip dhcp relay dai

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 |
| dai | Create database on relay agent for DAI |

Command Mode

- /exec/configure

ip dhcp relay information option

[no] ip dhcp relay information option

Syntax Description

| | |
|-------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| dhcp | Configure DHCP snooping or relay |
| relay | DHCP relay agent parameters |
| information | Relay agent information option |
| option | Insert relay information in BOOTREQUEST |

Command Mode

- /exec/configure

ip dhcp relay information option server-id-override-disable

[no] ip dhcp relay information option server-id-override-disable

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 |
| server-id-override-disable | Disable the override of the server-id |

Command Mode

- /exec/configure

ip dhcp relay information option trust

[no] ip dhcp relay information option trust

Syntax Description

| | |
|-------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| dhcp | Configure DHCP snooping or relay |
| relay | DHCP relay agent parameters |
| information | Relay agent information option |
| option | Relay agent option |
| trust | Enable relay trust functionality on the system |

Command Mode

- /exec/configure

ip dhcp relay information option vpn

ip dhcp relay information option vpn

[no] ip dhcp relay information option vpn

Syntax Description

| | |
|-------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| dhcp | Configure DHCP snooping or relay |
| relay | DHCP relay agent parameters |
| information | Relay agent information option |
| option | Insert relay information in BOOTREQUEST |
| vpn | Enable relay support across VRFs |

Command Mode

- /exec/configure

ip dhcp relay information trust-all

[no] ip dhcp relay information trust-all

Syntax Description

| | |
|-------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| dhcp | Configure DHCP snooping or relay |
| relay | DHCP relay agent parameters |
| information | Relay agent information option |
| trust-all | Enable relay trust on all the interfaces |

Command Mode

- /exec/configure

ip dhcp relay information trusted

ip dhcp relay information trusted

[no] ip dhcp relay information trusted

Syntax Description

| | |
|-------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| dhcp | Configure DHCP snooping or relay |
| relay | DHCP relay agent parameters |
| information | Relay agent information option |
| trusted | Enable relay trust on this interface |

Command Mode

- /exec/configure/if-igp

ip dhcp relay source

```
ip dhcp relay { source-interface <interface-name> } | no ip dhcp relay { source-interface [ <interface-name> ] }
```

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 |
| <i>interface-name</i> | Source interface |

Command Mode

- /exec/configure /exec/configure/if-igp

ip dhcp relay sub-option circuit-id customized

[no] ip dhcp relay sub-option circuit-id customized

Syntax Description

| | |
|------------|--|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| dhcp | Configure DHCP snooping or relay |
| relay | DHCP relay agent parameters |
| sub-option | Relay agent information option sub-option |
| circuit-id | sub-option of option82 |
| customized | circuit id customized to include vlan id, slot and port info |

Command Mode

- /exec/configure

ip dhcp relay sub-option circuit-id format-type string

[no] ip dhcp relay sub-option circuit-id format-type string [format <format-string>]

Syntax Description

| | |
|----------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| dhcp | Configure DHCP snooping or relay |
| relay | DHCP relay agent parameters |
| sub-option | Relay agent suboption |
| circuit-id | Relay agent circuit-id suboption |
| format-type | Specify suboption format type |
| string | Use string format for suboption |
| format | (Optional) Specify format string |
| <i>format-string</i> | (Optional) Format string |

Command Mode

- /exec/configure

ip dhcp relay sub-option format non-tlv

[no] ip dhcp relay sub-option format non-tlv

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 | Option82 sub-option parameters |
| format | Sub-option format type |
| non-tlv | Remove TLV format in circuit-ID and remote-ID sub-options |

Command Mode

- /exec/configure

ip dhcp relay sub-option type cisco

[no] ip dhcp relay sub-option type cisco

Syntax Description

| | |
|------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| dhcp | Configure DHCP snooping or relay |
| relay | DHCP relay agent parameters |
| sub-option | Relay agent suboption |
| type | Relay agent suboption type |
| cisco | Use Cisco proprietary suboptions |

Command Mode

- /exec/configure

ip dhcp relay subnet-selection

ip dhcp relay subnet-selection

{ ip dhcp relay subnet-selection <ip-addr> } | { no ip dhcp relay subnet-selection }

Syntax Description

| | |
|------------------|--|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| dhcp | Configure DHCP snooping or relay |
| relay | Configure relay agent |
| subnet-selection | Configure gateway address for DHCP relay |
| <i>ip-addr</i> | IP address |

Command Mode

- /exec/configure/if-igp

ip dhcp smart-relay

[no] ip dhcp smart-relay

Syntax Description

| | |
|-------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| dhcp | Configure DHCP snooping or relay |
| smart-relay | Configure DHCP smart relay on interface |

Command Mode

- /exec/configure/if-igp

ip dhcp smart-relay global

ip dhcp smart-relay global

[no] ip dhcp smart-relay global

Syntax Description

| | |
|-------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| dhcp | Configure DHCP snooping or relay |
| smart-relay | Configure DHCP smart relay |
| global | Configure DHCP smart relay globally |

Command Mode

- /exec/configure

ip dhcp snooping

[no] ip dhcp snooping

Syntax Description

| | |
|----------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| dhcp | Configure DHCP snooping or relay |
| snooping | DHCP Snooping |

Command Mode

- /exec/configure/

ip dhcp snooping information option

ip dhcp snooping information option

[no] ip dhcp snooping information option

Syntax Description

| | |
|-------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| dhcp | Configure DHCP snooping or relay |
| snooping | DHCP Snooping |
| information | DHCP Snooping information |
| option | DHCP Snooping information option |

Command Mode

- /exec/configure/

ip dhcp snooping ipsg-excluded vlan

[no] ip dhcp snooping ipsg-excluded vlan <vlan-id10>

Syntax Description

| | |
|------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| dhcp | Configure DHCP snooping or relay |
| snooping | DHCP Snooping |
| ipsg-excluded | exclude ipsg |
| vlan | DHCP Snooping ipsg excluded vlan |
| <i>vlan-id10</i> | VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19 |

Command Mode

- /exec/configure

ip dhcp snooping sub-option circuit-id format-type string

ip dhcp snooping sub-option circuit-id format-type string

[no] ip dhcp snooping sub-option circuit-id format-type string [format <format-string>]

Syntax Description

| | |
|----------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| dhcp | Configure DHCP snooping or relay |
| snooping | DHCP snooping parameters |
| sub-option | suboption |
| circuit-id | circuit-id suboption |
| format-type | Specify suboption format type |
| string | Use string format for suboption |
| format | (Optional) Specify format string |
| <i>format-string</i> | (Optional) Format string |

Command Mode

- /exec/configure

ip dhcp snooping sub-option format non-tlv

[no] ip dhcp snooping sub-option format non-tlv

Syntax Description

| | |
|------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| dhcp | Configure DHCP snooping or relay |
| snooping | DHCP snooping parameters |
| sub-option | Option82 sub-option parameters |
| format | Sub-option format type |
| non-tlv | Remove TLV format in circuit-ID and remote-ID sub-options |

Command Mode

- /exec/configure

ip dhcp snooping trust

ip dhcp snooping trust

[no] ip dhcp snooping trust

Syntax Description

| | |
|----------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| dhcp | Configure DHCP snooping or relay |
| snooping | DHCP Snooping |
| trust | DHCP Snooping trust config |

Command Mode

- /exec/configure/if-switching

ip dhcp snooping verify mac-address

[no] ip dhcp snooping verify mac-address

Syntax Description

| | |
|-------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| dhcp | Configure DHCP snooping or relay |
| snooping | DHCP Snooping |
| verify | DHCP snooping verify |
| mac-address | DHCP snooping verify mac-address |

Command Mode

- /exec/configure/

ip dhcp snooping vlan

ip dhcp snooping vlan

[no] ip dhcp snooping vlan <vlan-id10> [evpn]

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 |
| evpn | (Optional) FHS extended to evpn |

Command Mode

- /exec/configure

ip directed-broadcast

[no] ip directed-broadcast [<acl-name>]

Syntax Description

| | |
|--------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| directed-broadcast | IP directed-broadcast |
| <i>acl-name</i> | (Optional) ACL policy name |

Command Mode

- /exec/configure/if-igp /exec/configure/if-mgmt-config

ip distribute-list eigrp

[no] { ip | ipv6 } distribute-list eigrp <eigrp-ptag> { { route-map <map> } | { prefix-list <list> } } { in | out }

Syntax Description

| | |
|-------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| ipv6 | Configure IPv6 features |
| distribute-list | Filter networks in routing updates |
| eigrp | EIGRP interface configuration commands |
| <i>eigrp-ptag</i> | Process tag |
| route-map | Use a route-map for route filtering |
| <i>map</i> | Route-map name |
| prefix-list | Use a prefix-list for route filtering |
| <i>list</i> | Reference to prefix-list name |
| in | Filter incoming routing updates |
| out | Filter outgoing routing updates |

Command Mode

- /exec/configure/if-igp

ip dns source-interface

[no] ip dns source-interface <ifnum> [vrf { <vrf-name> | <vrf-known-name> }]

Syntax Description

| | |
|-----------------------|--|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| dns | Configure dns client |
| source-interface | Configure source interface feature for domain-lookup |
| <i>ifnum</i> | Source interface |
| vrf | (Optional) Configure VRF |
| <i>vrf-name</i> | (Optional) VRF name |
| <i>vrf-known-name</i> | (Optional) Known VRF name |

Command Mode

- /exec/configure

ip domain-list

[no] ip domain-list { <s0> | <s1> [use-vrf { <vrf-name> | <vrf-known-name> }] }

Syntax Description

| | |
|-----------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| domain-list | Add additional domain names |
| <i>s0</i> | Enter a domain |
| <i>s1</i> | Enter a domain |
| use-vrf | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| <i>vrf-name</i> | (Optional) VRF name |
| <i>vrf-known-name</i> | (Optional) Known VRF name |

Command Mode

- /exec/configure /exec/configure/vrf

ip domain-lookup

[no] ip domain-lookup

Syntax Description

| | |
|---------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| domain-lookup | Enable/Disable DNS |

Command Mode

- /exec/configure

ip domain-name

ip domain-name

[no] ip domain-name { <s0> | <s1> [use-vrf { <vrf-name> | <vrf-known-name> }] }

Syntax Description

| | |
|----------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| domain-name | Specify default domain name |
| s0 | Enter the default domain |
| s1 | Enter the default domain |
| use-vrf | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| vrf-name | (Optional) VRF name |
| vrf-known-name | (Optional) Known VRF name |

Command Mode

- /exec/configure /exec/configure/vrf

ip drop-glean

[no] ip drop-glean

Syntax Description

| | |
|------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| drop-glean | Installs the secondary subnet routes as Drop routes |

Command Mode

- /exec/configure/if-vlan-common

ip dscp-lop

ip dscp-lop

[no] ip dscp-lop | ip dscp-lop { <dscp-val> | <dscp-enum> }

Syntax Description

| | |
|------------------|--|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| dscp-lop | Set DSCP to be used for locally originated packets for IPv4 and IPv6. Cos will not be set. |
| <i>dscp-val</i> | Specify DSCP value for Locally Originated packets for IPv4 and IPv6 |
| <i>dscp-enum</i> | |

Command Mode

- /exec/configure

ip dscp

[no] ip dscp <dscp_value>

Syntax Description

| | |
|-------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Set ERSPAN IP options |
| dscp | Set the IP DSCP value |
| <i>dscp_value</i> | |

Command Mode

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

ip eigrp bfd

ip eigrp bfd

[no] ip eigrp <eigrp-ptag> bfd [disable]

Syntax Description

| | |
|-------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| eigrp | EIGRP interface configuration commands |
| <i>eigrp-ptag</i> | Process tag |
| bfd | Enable BFD on this interface |
| disable | (Optional) Disable BFD on this interface |

Command Mode

- /exec/configure/if-igp

ip eigrp shutdown

[no] { ip | ipv6 } eigrp <eigrp-ptag> shutdown

Syntax Description

| | |
|-------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| ipv6 | Configure IPv6 features |
| eigrp | EIGRP interface configuration commands |
| <i>eigrp-ptag</i> | Process tag |
| shutdown | Shutdown EIGRP on this interface |

Command Mode

- /exec/configure/if-igp

ip extcommunity-list expanded seq deny

{ ip extcommunity-list expanded <name> seq <seq> { deny | permit } <line> } | { no ip extcommunity-list expanded <name> seq <seq> [{ deny | permit } <line>] }

Syntax Description

| | |
|-------------------|---|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| extcommunity-list | Add a extcommunity list entry |
| expanded | Add an expanded extcommunity list entry |
| <i>name</i> | Name of expanded extcommunity list |
| seq | Sequence number of an entry |
| <i>seq</i> | Sequence number |
| deny | Specify extcommunity to reject |
| permit | Specify extcommunity to accept |
| <i>line</i> | Regular-expression(must) |

Command Mode

- /exec/configure

ip extcommunity-list standard seq permit 4byteas-generic transitive

```
{ { ip extcommunity-list standard <name> seq <seq> { permit | deny } { { 4byteas-generic { transitive
<ext-comm-gen-trans> | non-transitive <ext-comm-gen-nontrans> } } | { rmac <mac-addr> } | { rt {
<ext-comm-rt-aa2nn4> | <ext-comm-rt-aa4nn2> } } | { soo { <ext-comm-soo-aa2nn4> |
<ext-comm-soo-aa4nn2> } } } + } | { no ip extcommunity-list standard <name> seq <seq> [ permit | deny ]
[ { 4byteas-generic { transitive <ext-comm-gen-trans> | non-transitive <ext-comm-gen-nontrans> } } | { rmac
<mac-addr> } | { rt { <ext-comm-rt-aa2nn4> | <ext-comm-rt-aa4nn2> } } | { soo { <ext-comm-soo-aa2nn4>
| <ext-comm-soo-aa4nn2> } } ] + } }
```

Syntax Description

| | |
|------------------------------|--|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| extcommunity-list | Add a extcommunity list entry |
| standard | Add a standard Extcommunity list entry |
| <i>name</i> | Standard extcommunity list name |
| seq | Sequence number of an entry |
| <i>seq</i> | Sequence number |
| permit | Specify extcommunity to accept |
| deny | Specify extcommunity to reject |
| 4byteas-generic | Generic extended community |
| transitive | Transitive extcommunity |
| non-transitive | Non-Transitive extcommunity |
| rmac | Router MAC |
| rt | Router-Target |
| soo | Site-Of-Origin |
| <i>mac-addr</i> | MAC address |
| <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 |

```
ip extcommunity-list standard seq permit 4byteas-generic transitive
```

| | |
|----------------------------|---------------------|
| <i>ext-comm-soo-aa2nn4</i> | Extcommunity number |
| <i>ext-comm-soo-aa4nn2</i> | Extcommunity number |

Command Mode

- /exec/configure

ip filter add

```
ip filter add <seqno> { src-ip <src-ip> dst-ip <dst-ip> [ protocol <prot> [ l4-src-port { any | <l4-src-port> } l4-dst-port { any | <l4-dst-port> } ] ] } +
```

Syntax Description

| | |
|--------------------|--|
| ip | Configure IPv4 Filter |
| filter | Define a 5-tuple filter |
| add | Add a 5-tuple |
| <i>seqno</i> | Sequence number |
| src-ip | Source IPv4 address |
| <i>src-ip</i> | Source IPv4 address with prefix |
| dst-ip | Destination IPv4 address |
| <i>dst-ip</i> | Destination IPv4 address with prefix |
| protocol | (Optional) Protocol |
| <i>prot</i> | (Optional) |
| l4-src-port | (Optional) Source L4 port |
| any | (Optional) Any L4 source port between 0 - 65535 |
| <i>l4-src-port</i> | (Optional) Enter Source L4 port number |
| l4-dst-port | (Optional) Destination L4 port |
| any | (Optional) Any L4 destination port between 0 - 65535 |
| <i>l4-dst-port</i> | (Optional) Enter Destination L4 port number |

Command Mode

- /exec/flow-path-tracer

ip flow monitor input

[no] ip flow monitor <monitornname> { input | output }

Syntax Description

| | |
|---------------------|--|
| ip | Configure IP features |
| flow | NetFlow related commands |
| monitor | Apply a Flow Monitor to this interface |
| <i>monitornname</i> | Name of Flow Monitor |
| input | Apply Flow Monitor on input traffic |
| output | Apply Flow Monitor on output traffic |

Command Mode

- /exec/configure/if-routing /exec/configure/if-switching /exec/configure/if-eth-port-channel
/exec/configure/if-eth-port-channel-p2p

ip flow monitor input

[no] ip flow monitor <monitorname> { input | output }

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 |

Command Mode

- /exec/configure/if-vethernet /exec/configure/if-veth /exec/configure/if-veth-all /exec/configure/if-veth-any

ip flow monitor input

ip flow monitor input

[no] ip flow monitor <monitornname> { input | output }

Syntax Description

| | |
|---------------------|--|
| ip | Configure IP features |
| flow | NetFlow related commands |
| monitor | Apply a Flow Monitor to this interface |
| <i>monitornname</i> | Name of Flow Monitor |
| input | Apply Flow Monitor on input traffic |
| output | Apply Flow Monitor on output traffic |

Command Mode

- /exec/configure/vlan-config

ip flow monitor input

[no] ip flow monitor <monitorname> { input | output }

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 |

Command Mode

- /exec/configure/if-vlan-common

ip flow rtp

ip flow rtp

[no] ip flow rtp [<ipv4-acl>]

Syntax Description

| | |
|-----------------|--|
| ip | ipv4 configuration |
| flow | Enable/Disable NetFlow configuration |
| rtp | configure rtp flows for packet loss monitoring |
| <i>ipv4-acl</i> | (Optional) ipv4 ACL name |

Command Mode

- /exec/configure

ip forward

ip forward | no ip forward

Syntax Description

| | |
|---------|--------------------------------------|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| forward | Enable ip forwarding on interface |

Command Mode

- /exec/configure/if-vlan /exec/configure/if-vlan-range /exec/configure/if-igp

ip ftp source-interface

ip ftp source-interface

[no] ip ftp source-interface <ifnum> [vrf { <vrf-name> | <vrf-known-name> }]

Syntax Description

| | |
|-----------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| ftp | Configure FTP client |
| source-interface | Configure source interface feature for FTP client |
| <i>ifnum</i> | Source interface |
| vrf | (Optional) Configure VRF |
| <i>vrf-name</i> | (Optional) VRF name |
| <i>vrf-known-name</i> | (Optional) Known VRF name |

Command Mode

- /exec/configure

ip hello-interval eigrp

{ { { ip | ipv6 } hello-interval eigrp <eigrp-ptag> <hello-interval> } | { no { ip | ipv6 } hello-interval eigrp <eigrp-ptag> [<hello-interval>] } }

Syntax Description

| | |
|-----------------------|--|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| ipv6 | Configure IPv6 features |
| hello-interval | Configures IP-EIGRP hello interval |
| eigrp | EIGRP interface configuration commands |
| <i>eigrp-ptag</i> | Process tag |
| <i>hello-interval</i> | Seconds between hello transmissions |
| <i>eigrp-ptag</i> | |

Command Mode

- /exec/configure/if-igp

ip hold-time eigrp

```
{ { { ip | ipv6 } hold-time eigrp <eigrp-ptag> <holdtime> } | { no { ip | ipv6 } hold-time eigrp <eigrp-ptag> [ <holdtime> ] } }
```

Syntax Description

| | |
|-------------------|--|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| ipv6 | Configure IPv6 features |
| hold-time | Configures IP-EIGRP hold time |
| eigrp | EIGRP interface configuration commands |
| <i>eigrp-ptag</i> | Process tag |
| <i>holdtime</i> | Seconds before neighbor is considered down |
| <i>eigrp-ptag</i> | |

Command Mode

- /exec/configure/if-igp

ip host

[no] ip host <s0> [<ipv4_0>] | ip host <s0> <ipv4_0>

Syntax Description

| | |
|--------|---------------------------------------|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| host | Add an entry to the ip hostname table |
| s0 | Name of Host |
| ipv4_0 | (Optional) Enter an IP address |

Command Mode

- /exec/configure

ip http source-interface

ip http source-interface

[no] ip http source-interface <ifnum> [vrf { <vrf-name> | <vrf-known-name> }]

Syntax Description

| | |
|-----------------------|--|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| http | Configure HTTP client |
| source-interface | Configure source interface feature for HTTP client |
| <i>ifnum</i> | Source interface |
| vrf | (Optional) Configure VRF |
| <i>vrf-name</i> | (Optional) VRF name |
| <i>vrf-known-name</i> | (Optional) Known VRF name |

Command Mode

- /exec/configure

ip icmp-errors source-interface

ip icmp-errors source-interface <interface> [<icmp_type>] | no ip icmp-errors source-interface [<interface> <icmp_type>]

Syntax Description

| | |
|------------------|---|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| icmp-errors | ICMP unreachable/TTL-exceeded/param-prob messages |
| source-interface | Configure source-address for applications |
| <i>interface</i> | Interface to pick source-address from |
| <i>icmp_type</i> | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |

Command Mode

- /exec/configure /exec/configure/vrf

ip igmp any-query-destination

ip igmp any-query-destination

[no] ip igmp any-query-destination

Syntax Description

| | |
|-----------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| igmp | IGMP global configuration commands |
| any-query-destination | Allow any destination-IP for General Queries |

Command Mode

- /exec/configure

ip igmp enforce-router-alert

[no] ip igmp enforce-router-alert

Syntax Description

| | |
|----------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| igmp | IGMP global configuration commands |
| enforce-router-alert | Enforce Router Alert option check for IGMPv2 and IGMPv3 packets |

Command Mode

- /exec/configure

ip igmp flush-routes

[no] ip igmp flush-routes

Syntax Description

| | |
|--------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| igmp | IGMP global configuration commands |
| flush-routes | Remove routes when restarting IGMP |

Command Mode

- /exec/configure

ip igmp group-timeout

{ { no ip igmp group-timeout [<time>] } | { ip igmp group-timeout <time> } }

Syntax Description

| | |
|---------------|--|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| igmp | IGMP interface configuration commands |
| group-timeout | Configures group membership timeout for IGMPv2 |
| <i>time</i> | (Optional) Time in seconds |

Command Mode

- /exec/configure/if-igp

ip igmp heavy-template

[no] ip igmp heavy-template

Syntax Description

| | |
|----------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| igmp | IGMP global configuration commands |
| heavy-template | IGMP heavy for IGMP scale |

Command Mode

- /exec/configure

ip igmp host-proxy

[no] ip igmp host-proxy [sg-proxy] [unsolicited <time> | route-map <route-map-name> [unsolicited <time>] | prefix-list <prefix-list-name> [unsolicited <time>]]

Syntax Description

| | |
|-------------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| igmp | IGMP interface configuration commands |
| host-proxy | Configures igmp host proxy for this interface |
| sg-proxy | (Optional) source-group proxy |
| route-map | (Optional) host proxy route-map policy |
| prefix-list | (Optional) host proxy prefix-list policy |
| unsolicited | (Optional) unsolicited joins |
| <i>time</i> | (Optional) Time in seconds. |
| <i>route-map-name</i> | (Optional) Route-map name |
| <i>prefix-list-name</i> | (Optional) Name of prefix-list |

Command Mode

- /exec/configure/if-igp

ip igmp immediate-leave

ip igmp immediate-leave

[no] ip igmp immediate-leave

Syntax Description

| | |
|-----------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| igmp | IGMP interface configuration commands |
| immediate-leave | Enable/Disable immediate leave |

Command Mode

- /exec/configure/if-igp

ip igmp join-group

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

Syntax Description

| | |
|-----------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| igmp | IGMP interface configuration commands |
| join-group | Configures local group membership for router |
| <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

ip igmp last-member-query-count

{ { no ip igmp last-member-query-count [<count>] } | { ip igmp last-member-query-count <count> } }

Syntax Description

| | |
|-------------------------|--|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| igmp | IGMP interface configuration commands |
| last-member-query-count | Configures number of group-specific Queries sent |
| <i>count</i> | (Optional) Count value |

Command Mode

- /exec/configure/if-igp

ip igmp last-member-query-response-time

{ { no ip igmp last-member-query-response-time [<interval>] } } | { ip igmp last-member-query-response-time <interval> } }

Syntax Description

| | |
|---------------------------------|--|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| igmp | IGMP interface configuration commands |
| last-member-query-response-time | Configures last member query response time |
| <i>interval</i> | (Optional) Interval in seconds |

Command Mode

- /exec/configure/if-igp

ip igmp querier-elect strict

ip igmp querier-elect strict

[no] ip igmp querier-elect strict

Syntax Description

| | |
|---------------|--|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| igmp | IGMP global configuration commands |
| querier-elect | Querier election |
| strict | Consider subnet check for L3 igmp querier election |

Command Mode

- /exec/configure

ip igmp querier

```
{ { no ip igmp { querier-timeout | query-timeout } [ <time> ] } | { ip igmp { querier-timeout | query-timeout } <time> } }
```

Syntax Description

| | |
|-----------------|---------------------------------------|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| igmp | IGMP interface configuration commands |
| querier-timeout | Configures querier timeout for IGMPv2 |
| query-timeout | Configures querier timeout for IGMPv2 |
| <i>time</i> | (Optional) Time in seconds |

Command Mode

- /exec/configure/if-igp

ip igmp query-interval

ip igmp query-interval

{ { no ip igmp query-interval [<interval>] } | { ip igmp query-interval <interval> } }

Syntax Description

| | |
|-----------------|--|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| igmp | IGMP interface configuration commands |
| query-interval | Configures interval between Query transmission |
| <i>interval</i> | (Optional) Interval in seconds |

Command Mode

- /exec/configure/if-igp

ip igmp query-max-response-time

{ { no ip igmp query-max-response-time [<time>] } | { ip igmp query-max-response-time <time> } }

Syntax Description

| | |
|-------------------------|---------------------------------------|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| igmp | IGMP interface configuration commands |
| query-max-response-time | Configures MRT for query messages |
| <i>time</i> | (Optional) Time in seconds |

Command Mode

- /exec/configure/if-igp

ip igmp report-link-local-groups

ip igmp report-link-local-groups

[no] ip igmp report-link-local-groups

Syntax Description

| | |
|--------------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| igmp | IGMP global configuration commands |
| report-link-local-groups | Send Reports for groups in 224.0.0.0/24 |

Command Mode

- /exec/configure/if-igp

ip igmp report prefix-list

{ { ip igmp { report-policy | access-group } { <route-map-name> | prefix-list <prefix-list-name> } } | { no ip igmp { report-policy | access-group } [<route-map-name> | prefix-list <prefix-list-name>] } }

Syntax Description

| | |
|-------------------------|---------------------------------------|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| igmp | IGMP interface configuration commands |
| report-policy | IGMP Report Policy |
| access-group | IGMP access-group |
| <i>route-map-name</i> | Route-map name |
| prefix-list | Prefix list policy |
| <i>prefix-list-name</i> | Name of prefix-list |

Command Mode

- /exec/configure/if-igp

ip igmp robustness-variable

ip igmp robustness-variable

{ { no ip igmp robustness-variable [<value>] } | { ip igmp robustness-variable <value> } }

Syntax Description

| | |
|---------------------|--|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| igmp | IGMP interface configuration commands |
| robustness-variable | Configures RFC defined Robustness Variable |
| <i>value</i> | (Optional) Count value |

Command Mode

- /exec/configure/if-igp

ip igmp snooping

{ { no ip igmp snooping } | { ip igmp snooping } }

Syntax Description

| | |
|----------|--------------------------------------|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| igmp | IGMP configuration commands |
| snooping | Configures IGMP Snooping |

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping

ip igmp snooping

{ { no ip igmp snooping } | { ip igmp snooping } }

Syntax Description

| | |
|----------|--------------------------------------|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| igmp | IGMP global configuration commands |
| snooping | Configures IGMP Snooping |

Command Mode

- /exec/configure

ip igmp snooping access-group

[no] ip igmp snooping access-group <route-map-name>

Syntax Description

| | |
|-----------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| igmp | IGMP configuration commands |
| snooping | Configures IGMP Snooping |
| access-group | Filter or report policy for specified groups |
| <i>route-map-name</i> | Filter route-map name |

Command Mode

- /exec/configure/vlan-config

ip igmp snooping disable-nve-static-router-port

[no] ip igmp snooping disable-nve-static-router-port

Syntax Description

| | |
|--------------------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| igmp | IGMP global configuration commands |
| snooping | Configures IGMP Snooping |
| disable-nve-static-router-port | Disable NVE as a static router port |

Command Mode

- /exec/configure

ip igmp snooping disable-nve-static-router-port

[no] ip igmp snooping disable-nve-static-router-port

Syntax Description

| | |
|--------------------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| igmp | IGMP global configuration commands |
| snooping | Configures IGMP Snooping |
| disable-nve-static-router-port | Disable NVE as a static router port |

Command Mode

- /exec/configure

ip igmp snooping explicit-tracking

ip igmp snooping explicit-tracking

{ { no ip igmp snooping explicit-tracking } | { ip igmp snooping explicit-tracking } }

Syntax Description

| | |
|-------------------|---|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| igmp | IGMP configuration commands |
| snooping | Configures IGMP Snooping |
| explicit-tracking | Configures Explicit Host tracking for VLAN/BD |

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping fast-leave

{ { no ip igmp snooping fast-leave } | { ip igmp snooping fast-leave } }

Syntax Description

| | |
|------------|---------------------------------------|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| igmp | IGMP configuration commands |
| snooping | Configures IGMP Snooping |
| fast-leave | Configures Fast leave for the VLAN/BD |

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping group-timeout

ip igmp snooping group-timeout

[no] ip igmp snooping group-timeout { <timeout> | never }

Syntax Description

| | |
|----------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| igmp | IGMP configuration commands |
| snooping | Configures IGMP Snooping |
| group-timeout | Configures group membership timeout in VLAN/BD |
| <i>timeout</i> | Timeout in minutes |
| never | Never expire ports from group membership |

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping group-timeout

[no] ip igmp snooping group-timeout { <timeout> | never }

Syntax Description

| | |
|----------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| igmp | IGMP configuration commands |
| snooping | Configures IGMP Snooping |
| group-timeout | Configures group membership timeout in all VLAN/BDs |
| <i>timeout</i> | Timeout in minutes |
| never | Never expire ports from group membership |

Command Mode

- /exec/configure

ip igmp snooping last-member-query-interval

{ { no ip igmp snooping last-member-query-interval [<interval>] } | { ip igmp snooping last-member-query-interval <interval> } }

Syntax Description

| | |
|----------------------------|--|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| igmp | IGMP configuration commands |
| snooping | Configures IGMP Snooping |
| last-member-query-interval | Configures interval between group-specific Query transmissions |
| <i>interval</i> | (Optional) Interval in seconds |

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping link-local-groups-suppression

[no] ip igmp snooping link-local-groups-suppression

Syntax Description

| | |
|-------------------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| igmp | IGMP global configuration commands |
| snooping | Configures IGMP Snooping |
| link-local-groups-suppression | Configures Global link-local groups suppression |

Command Mode

- /exec/configure

ip igmp snooping link-local-groups-suppression

ip igmp snooping link-local-groups-suppression

[no] ip igmp snooping link-local-groups-suppression

Syntax Description

| | |
|-------------------------------|--|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| igmp | IGMP configuration commands |
| snooping | Configures IGMP Snooping |
| link-local-groups-suppression | Configures VLAN/BD link-local groups suppression |

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping many-to-one-enhance

[no] ip igmp snooping many-to-one-enhance

Syntax Description

| | |
|---------------------|--|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| igmp | IGMP global configuration commands |
| snooping | Configures IGMP Snooping |
| many-to-one-enhance | Enable many to one optimization for n3500 platform |

Command Mode

- /exec/configure

ip igmp snooping max-gq-miss

{ { no ip igmp snooping max-gq-miss } | { ip igmp snooping max-gq-miss <count> } }

Syntax Description

| | |
|--------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| igmp | IGMP global configuration commands |
| snooping | Configures IGMP Snooping |
| max-gq-miss | Configure general query miss count |
| <i>count</i> | Max number of GQ misses allowed |

Command Mode

- /exec/configure

ip igmp snooping mrouter interface

{ [no] ip igmp snooping mrouter interface [vsi] <interface> }

Syntax Description

| | |
|------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| igmp | IGMP configuration commands |
| snooping | Configures IGMP Snooping |
| mrouter | Configures static multicast router interface |
| interface | Specify interface for static-mrouter |
| vsi | (Optional) Specify if this interface is a VSI |
| <i>interface</i> | Interface name |

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping mrouter vpc-peer-link

ip igmp snooping mrouter vpc-peer-link

[no] ip igmp snooping mrouter vpc-peer-link

Syntax Description

| | |
|---------------|--|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| igmp | IGMP global configuration commands |
| snooping | Configures IGMP Snooping |
| mrouter | Configures static multicast router interface |
| vpc-peer-link | Specify vpc-peer-link as static mrouter for all VLAN/BDs |

Command Mode

- /exec/configure

ip igmp snooping optimise-multicast-flood

[no] ip igmp snooping optimise-multicast-flood

Syntax Description

| | |
|--------------------------|--|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| igmp | IGMP global configuration commands |
| snooping | Configures IGMP Snooping |
| optimise-multicast-flood | Configures Optimized Multicast Flood (OMF) on all VLAN/BDs |

Command Mode

- /exec/configure

ip igmp snooping proxy-leave use-group-address

{ { ip igmp snooping proxy-leave use-group-address } | { no ip igmp snooping proxy-leave use-group-address } }

Syntax Description

| | |
|-------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| igmp | IGMP configuration commands |
| snooping | Configures IGMP Snooping |
| proxy-leave | Proxy Leave |
| use-group-address | Use group address for proxy leave |

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping proxy general-queries

[no] ip igmp snooping proxy general-queries [mrt <mrt>]

Syntax Description

| | |
|-----------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| igmp | IGMP configuration commands |
| snooping | Configures IGMP Snooping |
| proxy | Configures IGMP snooping proxy |
| general-queries | Configures proxy for general-queries |
| mrt | (Optional) Configure max-response-time for the switch's proxy general-queries |
| <i>mrt</i> | (Optional) MRT in seconds |

Command Mode

- /exec/configure

ip igmp snooping proxy general-queries

ip igmp snooping proxy general-queries

[no] ip igmp snooping proxy general-queries [mrt <mrt>]

Syntax Description

| | |
|-----------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| igmp | IGMP configuration commands |
| snooping | Configures IGMP Snooping |
| proxy | Configures IGMP snooping proxy |
| general-queries | Configures proxy for general-queries |
| mrt | (Optional) Configure max-response-time for the switch's proxy general-queries |
| <i>mrt</i> | (Optional) MRT in seconds |

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping querier-timeout

{ { no ip igmp snooping querier-timeout [<time>] } | { ip igmp snooping querier-timeout <time> } }

Syntax Description

| | |
|-----------------|---------------------------------------|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| igmp | IGMP configuration commands |
| snooping | Configures IGMP Snooping |
| querier-timeout | Configures querier timeout for IGMPv2 |
| <i>time</i> | (Optional) Time in seconds |

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping querier

ip igmp snooping querier

{ { no ip igmp snooping querier [<querier>] } | { ip igmp snooping querier <querier> } }

Syntax Description

| | |
|----------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| igmp | IGMP configuration commands |
| snooping | Configures IGMP Snooping |
| querier | Enables snooping querier |
| <i>querier</i> | (Optional) Querier IP address |

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping query-interval

{ { no ip igmp snooping query-interval [<interval>] } | { ip igmp snooping query-interval <interval> } }

Syntax Description

| | |
|-----------------|--|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| igmp | IGMP configuration commands |
| snooping | Configures IGMP Snooping |
| query-interval | Configures interval between query transmission |
| <i>interval</i> | (Optional) Interval in seconds |

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping query-max-response-time

{ { no ip igmp snooping query-max-response-time [<time>] } | { ip igmp snooping query-max-response-time <time> } }

Syntax Description

| | |
|-------------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| igmp | IGMP configuration commands |
| snooping | Configures IGMP Snooping |
| query-max-response-time | Configures MRT for query messages |
| <i>time</i> | (Optional) Time in seconds |

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping report-flood all

{ { ip igmp snooping report-flood { all | interface <interface> } } | { no ip igmp snooping report-flood { all | interface <interface> } } }

Syntax Description

| | |
|------------------|---------------------------------------|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| igmp | IGMP configuration commands |
| snooping | Configures IGMP Snooping |
| report-flood | Configures Report flooding on a VLAN |
| interface | Specify interface for report flooding |
| all | Flood on ALL active ports of VLAN |
| <i>interface</i> | Interface name |

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping report-suppression

ip igmp snooping report-suppression

{ { no ip igmp snooping report-suppression } | { ip igmp snooping report-suppression } }

Syntax Description

| | |
|--------------------|---|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| igmp | IGMP configuration commands |
| snooping | Configures IGMP Snooping |
| report-suppression | Configures IGMPv1/IGMPv2 Report Suppression for the VLAN/BD |

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping report-suppression

{ { no ip igmp snooping report-suppression } | { ip igmp snooping report-suppression } }

Syntax Description

| | |
|--------------------|--|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| igmp | IGMP global configuration commands |
| snooping | Configures IGMP Snooping |
| report-suppression | Configures Global IGMPv1/IGMPv2 Report Suppression |

Command Mode

- /exec/configure

ip igmp snooping report prefix interface

{ [no] ip igmp snooping { report-policy | access-group } { prefix-list | route-map } <pname> interface <interface> }

Syntax Description

| | |
|------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| igmp | IGMP configuration commands |
| snooping | Configures IGMP Snooping |
| report-policy | IGMP Report Policy |
| access-group | Filter or report policy for specified groups |
| prefix-list | IPv4 Prefix-List report policy |
| route-map | Route-Map report policy |
| <i>pname</i> | Policy Name |
| interface | Specify interface for filtering |
| <i>interface</i> | Interface name |

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping robustness-variable

{ { no ip igmp snooping robustness-variable [<value>] } | { ip igmp snooping robustness-variable <value> } }

Syntax Description

| | |
|---------------------|--|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| igmp | IGMP configuration commands |
| snooping | Configures IGMP Snooping |
| robustness-variable | Configures RFC defined Robustness Variable |
| <i>value</i> | (Optional) Count value |

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping startup-query-count

```
{ { no ip igmp snooping startup-query-count [ <count> ] } | { ip igmp snooping startup-query-count <count> } }
```

Syntax Description

| | |
|---------------------|--|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| igmp | IGMP configuration commands |
| snooping | Configures IGMP Snooping |
| startup-query-count | Configures number of queries sent at startup |
| <i>count</i> | (Optional) Count value |

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping startup-query-interval

{ { no ip igmp snooping startup-query-interval [<interval>] } } | { ip igmp snooping startup-query-interval <interval> } }

Syntax Description

| | |
|------------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| igmp | IGMP configuration commands |
| snooping | Configures IGMP Snooping |
| startup-query-interval | Configures query interval at startup |
| <i>interval</i> | (Optional) Interval in seconds |

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping static-group interface

{ [no] ip igmp snooping static-group <group> [source <source>] interface [vsi] <interface> }

Syntax Description

| | |
|------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| igmp | IGMP configuration commands |
| snooping | Configures IGMP Snooping |
| static-group | Configures static group membership |
| <i>group</i> | Group IP Address |
| source | (Optional) Configures static (S,G) channel |
| <i>source</i> | (Optional) Source IP Address |
| interface | Specify interface for static-group |
| vsi | (Optional) Specify if this interface is a VSI |
| <i>interface</i> | Interface name |

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping syslog-threshold

{ ip igmp snooping syslog-threshold <percentage> } | { no ip igmp snooping syslog-threshold }

Syntax Description

| | |
|-------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| igmp | IGMP configuration commands |
| snooping | Configures IGMP Snooping |
| syslog-threshold | IGMP SNOOPING table syslog threshold |
| <i>percentage</i> | Percentage |

Command Mode

- /exec/configure

ip igmp snooping v3-report-suppression

ip igmp snooping v3-report-suppression

{ { no ip igmp snooping v3-report-suppression } | { ip igmp snooping v3-report-suppression } }

Syntax Description

| | |
|-----------------------|--|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| igmp | IGMP configuration commands |
| snooping | Configures IGMP Snooping |
| v3-report-suppression | Configures IGMPv3 Report Suppression and Proxy Reporting for the VLAN/BD |

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping v3-report-suppression

{ { no ip igmp snooping v3-report-suppression } | { ip igmp snooping v3-report-suppression } }

Syntax Description

| | |
|-----------------------|---|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| igmp | IGMP global configuration commands |
| snooping | Configures IGMP Snooping |
| v3-report-suppression | Configures Global IGMPv3 Report Suppression and Proxy Reporting |

Command Mode

- /exec/configure

ip igmp snooping version

ip igmp snooping version

{ { no ip igmp snooping version [<version>] } | { ip igmp snooping version <version> } }

Syntax Description

| | |
|----------------|--|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| igmp | IGMP configuration commands |
| snooping | Configures IGMP Snooping |
| version | Configures IGMP version number for VLAN/BD |
| <i>version</i> | (Optional) Version number value |

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping vxlan-umc drop

[no] ip igmp snooping vxlan-umc drop [vlan <vlans-range>]

Syntax Description

| | |
|--------------------|--|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| igmp | IGMP global configuration commands |
| snooping | Configures IGMP Snooping |
| vxlan-umc | Turn off flooding on VLANs |
| drop | Drop unknown multicast traffic on all VLANs |
| vlan | (Optional) VLAN list to drop the unknown multicast traffic |
| <i>vlans-range</i> | (Optional) VLAN IDs for which unknown multicast traffic is dropped |

Command Mode

- /exec/configure

ip igmp snooping vxlan

{ { no ip igmp snooping vxlan } | { ip igmp snooping vxlan } }

Syntax Description

| | |
|----------|--------------------------------------|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| igmp | IGMP global configuration commands |
| snooping | Configures IGMP Snooping |
| vxlan | Configures Snooping for vxlan vlans |

Command Mode

- /exec/configure

ip igmp spoof-check

[no] ip igmp spoof-check

Syntax Description

| | |
|-------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| igmp | IGMP global configuration commands |
| spoof-check | Enable spoof check for IGMP |

Command Mode

- /exec/configure

ip igmp ssm-translate

ip igmp ssm-translate

[no] ip igmp ssm-translate <group> <source>

Syntax Description

| | |
|---------------|--|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| igmp | IGMP global configuration commands |
| ssm-translate | Translate IGMPv1/v2 reports to (S,G) route entries |
| <i>group</i> | IP Multicast group range |
| <i>source</i> | IP Multicast address source |

Command Mode

- /exec/configure /exec/configure/vrf

ip igmp startup-query-count

{ { no ip igmp startup-query-count [<count>] } | { ip igmp startup-query-count <count> } }

Syntax Description

| | |
|---------------------|--|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| igmp | IGMP interface configuration commands |
| startup-query-count | Configures number of queries sent at startup |
| <i>count</i> | (Optional) Count value |

Command Mode

- /exec/configure/if-igp

ip igmp startup-query-interval

ip igmp startup-query-interval

{ { no ip igmp startup-query-interval [<interval>] } | { ip igmp startup-query-interval <interval> } }

Syntax Description

| | |
|------------------------|---------------------------------------|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| igmp | IGMP interface configuration commands |
| startup-query-interval | Configures query interval at startup |
| <i>interval</i> | (Optional) Interval in seconds |

Command Mode

- /exec/configure/if-igp

ip igmp state-limit

{ { ip igmp state-limit <max-states> [reserved <route-map-name> <max-reserved>] } | { no ip igmp state-limit [<max-states> [reserved <route-map-name> <max-reserved>]] } }

Syntax Description

| | |
|-----------------------|---|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| igmp | IGMP interface configuration commands |
| state-limit | Configures State limit |
| <i>max-states</i> | Maximum states allowed |
| reserved | (Optional) Reserve the states using route-map |
| <i>route-map-name</i> | (Optional) Route-map name |
| <i>max-reserved</i> | (Optional) Maximum (*,G)/(S,G) entires allowed on the interface |

Command Mode

- /exec/configure/if-igp

ip igmp suppress v3-gsq

ip igmp suppress v3-gsq

[no] ip igmp suppress v3-gsq

Syntax Description

| | |
|----------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| igmp | IGMP interface configuration commands |
| suppress | Suppress |
| v3-gsq | v3 GSQ |

Command Mode

- /exec/configure/if-igp

ip igmp syslog-threshold

{ ip igmp syslog-threshold <percentage> } | { no ip igmp syslog-threshold }

Syntax Description

| | |
|-------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| igmp | IGMP related events |
| syslog-threshold | IGMP table syslog threshold |
| <i>percentage</i> | Percentage |

Command Mode

- /exec/configure

ip igmp version

ip igmp version

{ { no ip igmp version [<version>] } | { ip igmp version <version> } }

Syntax Description

| | |
|----------------|--|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| igmp | IGMP interface configuration commands |
| version | Configures IGMP version number for interface |
| <i>version</i> | (Optional) Version number value |

Command Mode

- /exec/configure/if-igp

ip large-community-list expanded seq deny

{ ip large-community-list expanded <name> seq <seq> { deny | permit } <line> } | { no ip large-community-list expanded <name> [seq <seq> [{ deny | permit } <line>]] }

Syntax Description

| | |
|----------------------|--|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| large-community-list | Add a large community list entry |
| expanded | Add an expanded large community list entry |
| <i>name</i> | Name of expanded large community list |
| seq | Sequence number of an entry |
| <i>seq</i> | Sequence number |
| deny | Specify large community to reject |
| permit | Specify large community to accept |
| <i>line</i> | Regular-expression(must) |

Command Mode

- /exec/configure

```
ip large-community-list standard seq permit
```

ip large-community-list standard seq permit

{ { ip large-community-list standard <name> seq <seq> { permit | deny } <large-comm-xxyyzz> + } | { no ip large-community-list standard <name> [seq <seq> [{ permit | deny } <large-comm-xxyyzz> +]] }

Syntax Description

| | |
|--------------------------|---|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| large-community-list | Add a large community list entry |
| standard | Add a standard large community list entry |
| <i>name</i> | Standard large community list name |
| seq | Sequence number of an entry |
| <i>seq</i> | Sequence number |
| permit | Specify large community to accept |
| deny | Specify large community to reject |
| <i>large-comm-xxyyzz</i> | Large Community number in xx:yy:zz format |
| <i>large-comm-xxyyzz</i> | (Optional) |

Command Mode

- /exec/configure

ip lisp alt-vrf

{ { [no] ip lisp alt-vrf { <vrf-name> | <vrf-known-name> } } | { [no] ipv6 lisp alt-vrf { <vrf-name> | <vrf-known-name> } } }

Syntax Description

| | |
|-----------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| ipv6 | Configure IPv6 features |
| lisp | LISP global configuration commands |
| alt-vrf | Activate LISP-ALT functionality in VRF |
| <i>vrf-name</i> | VRF name |
| <i>vrf-known-name</i> | Known VRF name |

Command Mode

- /exec/configure /exec/configure/vrf

ip lisp database-mapping dynamic priority weight

```
{ [ no ] ip lisp database-mapping <eid-prefix> { <locator> | <locator6> | { dynamic <interface> } } priority
<priority> weight <weight> } | { no ip lisp database-mapping <eid-prefix> { <locator> | <locator6> | { dynamic
<interface> } } } | { [ no ] ipv6 lisp database-mapping <eid-prefix6> { <locator> | <locator6> | { dynamic
<interface> } } priority <priority> weight <weight> } | { no ipv6 lisp database-mapping <eid-prefix6> {
<locator> | <locator6> | { dynamic <interface> } } }
```

Syntax Description

| | |
|-------------------|--|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| ipv6 | Configure IPv6 features |
| lisp | LISP global configuration commands |
| database-mapping | Configures Locator addresses for an ETR |
| <i>eid-prefix</i> | IP EID-prefix to advertise locators for |
| <i>locator</i> | IP address of loopback or other ETR loopback interface |
| dynamic | Get locator dynamically |
| <i>interface</i> | Interface to learn dynamic locator |
| priority | Configures which Locators from a set are preferred |
| <i>priority</i> | Lower priority Locator takes preference |
| weight | Traffic load-spreading among Locators |
| <i>weight</i> | Specified in a percentage from 0 to 100 |

Command Mode

- /exec/configure /exec/configure/vrf

ip lisp etr

[no] { ip | ipv6 } lisp etr

Syntax Description

| | |
|------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| ipv6 | Configure IPv6 features |
| lisp | LISP global configuration commands |
| etr | Configures LISP Egress Tunnel Router (ETR) parameters |

Command Mode

- /exec/configure /exec/configure/vrf

ip lisp etr accept-map-request-mapping

{ { [no] ip lisp etr accept-map-request-mapping [verify] } | { [no] ipv6 lisp etr accept-map-request-mapping [verify] } }

Syntax Description

| | |
|----------------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| ipv6 | Configure IPv6 features |
| etr | Configures LISP Egress Tunnel Router (ETR) parameters |
| lisp | LISP global configuration commands |
| accept-map-request-mapping | Configures an ETR to cache mappings received from Map-Request messages |
| verify | (Optional) Send Map-Request back to Map-Request originator of a Mapping Data Record |

Command Mode

- /exec/configure /exec/configure/vrf

ip lisp etr glean-mapping

{ { [no] ip lisp etr glean-mapping [verify] } | { [no] ipv6 lisp etr glean-mapping } }

Syntax Description

| | |
|---------------|--|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| ipv6 | Configure IPv6 features |
| etr | Configures LISP Egress Tunnel Router (ETR) parameters |
| lisp | LISP global configuration commands |
| glean-mapping | Glean locator mapping from outer DA for inner DA EID |
| verify | (Optional) Send Map-Request to ITR to verify data gleaning |

Command Mode

- /exec/configure /exec/configure/vrf

ip lisp etr map-cache-ttl

{ [no] ip lisp etr map-cache-ttl <minutes> } | { no ip lisp etr map-cache-ttl } | { [no] ipv6 lisp etr map-cache-ttl <minutes> } | { no ipv6 lisp etr map-cache-ttl }

Syntax Description

| | |
|----------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| ipv6 | Configure IPv6 features |
| etr | Configures LISP Egress Tunnel Router (ETR) parameters |
| lisp | LISP global configuration commands |
| map-cache-ttl | Configures TTL for Map-Reply messages |
| <i>minutes</i> | Time-to-Live in units of minutes |

Command Mode

- /exec/configure /exec/configure/vrf

ip lisp etr map-register-ttl

{ [no] ip lisp etr map-register-ttl <minutes> } | { no ip lisp etr map-register-ttl } | { [no] ipv6 lisp etr map-register-ttl <minutes> } | { no ipv6 lisp etr map-register-ttl }

Syntax Description

| | |
|------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| ipv6 | Configure IPv6 features |
| etr | Configures LISP Egress Tunnel Router (ETR) parameters |
| lisp | LISP global configuration commands |
| map-register-ttl | Configures TTL for Map-Register messages |
| <i>minutes</i> | Time-to-Live in units of minutes |

Command Mode

- /exec/configure /exec/configure/vrf

ip lisp etr map-server key

```
{ { [ no ] ip lisp etr map-server { <ms> | <ms6> } [ key-type { sha1 | sha2 } ] key <key> } | { [ no ] ipv6 lisp
etr map-server { <ms> | <ms6> } [ key-type { sha1 | sha2 } ] key <key> } | { [ no ] ip lisp etr map-server {
<ms> | <ms6> } proxy-reply } | { [ no ] ipv6 lisp etr map-server { <ms> | <ms6> } proxy-reply } }
```

Syntax Description

| | |
|-------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| ipv6 | Configure IPv6 features |
| lisp | LISP global configuration commands |
| etr | Configures LISP Egress Tunnel Router (ETR) parameters |
| map-server | To interact with Map-Server |
| <i>ms</i> | Address of IPv4 map-server |
| key-type | (Optional) Authentication key type, either sha1 or sha2 |
| sha1 | (Optional) Use sha1 authentication in Map-Register messages |
| sha2 | (Optional) Use sha2 authentication in Map-Register messages |
| key | Authentication key used with Map-Server |
| <i>key</i> | SHA-1 password key |
| proxy-reply | Request Map-Server to send Map-Replies on behalf of site |

Command Mode

- /exec/configure /exec/configure/vrf

ip lisp hardware-forwarding

[no] { ip | ipv6 } lisp hardware-forwarding

Syntax Description

| | |
|---------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| ipv6 | Configure IPv6 features |
| lisp | LISP global configuration commands |
| hardware-forwarding | Enable/disable Nexus 7K hardware forwarding |

Command Mode

- /exec/configure /exec/configure/vrf

ip lisp itr-etr

[no] { ip | ipv6 } lisp itr-etr

Syntax Description

| | |
|---------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| ipv6 | Configure IPv6 features |
| lisp | LISP global configuration commands |
| itr-etr | Configures both LISP ITR and ETR functionality |

Command Mode

- /exec/configure /exec/configure/vrf

ip lisp itr

[no] { ip | ipv6 } lisp itr

Syntax Description

| | |
|------|--|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| ipv6 | Configure IPv6 features |
| lisp | LISP global configuration commands |
| itr | Configures LISP Ingress Tunnel Router (ITR) parameters |

Command Mode

- /exec/configure /exec/configure/vrf

ip lisp itr map-resolver

{ [no] { ip | ipv6 } lisp itr map-resolver { <mr> | <mr6> } }

Syntax Description

| | |
|--------------|--|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| ipv6 | Configure IPv6 features |
| lisp | LISP global configuration commands |
| itr | Configures LISP Ingress Tunnel Router (ITR) parameters |
| map-resolver | To interact with Map-Resolver |
| mr | Address of IPv4 map-server |

Command Mode

- /exec/configure /exec/configure/vrf

ip lisp itr send-data-probe

{ { [no] ip lisp itr send-data-probe } | { [no] ipv6 lisp itr send-data-probe } }

Syntax Description

| | |
|-----------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| ipv6 | Configure IPv6 features |
| lisp | LISP global configuration commands |
| itr | Configures LISP Ingress Tunnel Router (ITR) parameters |
| send-data-probe | Send a Data-Probe instead of Map-Request on the LISP-ALT topology |

Command Mode

- /exec/configure /exec/configure/vrf

ip lisp locator-vrf

ip lisp locator-vrf

{ { [no] ip lisp locator-vrf { <vrf-name> | <vrf-known-name> } } | { [no] ipv6 lisp locator-vrf { <vrf-name> | <vrf-known-name> } } }

Syntax Description

| | |
|-----------------------|--|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| ipv6 | Configure IPv6 features |
| lisp | LISP global configuration commands |
| locator-vrf | Configure what VRF to use for locator command references |
| <i>vrf-name</i> | VRF name |
| <i>vrf-known-name</i> | Known VRF name |

Command Mode

- /exec/configure /exec/configure/vrf

ip lisp map-cache-limit

[no] { ip | ipv6 } lisp map-cache-limit <limit> [reserve-list <prefix-list>]

Syntax Description

| | |
|--------------------|--|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| ipv6 | Configure IPv6 features |
| lisp | LISP global configuration commands |
| map-cache-limit | Configures maximum size of map-cache |
| <i>limit</i> | Maximum number of map-cache entries |
| reserve-list | (Optional) EID-prefixes guaranteed to be stored in map-cache |
| <i>prefix-list</i> | (Optional) Reference to prefix-list name |

Command Mode

- /exec/configure /exec/configure/vrf

```
ip lisp map-cache drop native-forward map-request priority weight
```

ip lisp map-cache drop native-forward map-request priority weight

```
{ { [ no ] ip lisp map-cache <eid-prefix> { drop | native-forward | map-request | { { <locator> | <locator6> } priority <priority> weight <weight> [ down ] } } } | { [ no ] ipv6 lisp map-cache <eid-prefix6> { drop | native-forward | map-request | { { <locator6> | <locator> } priority <priority> weight <weight> [ down ] } } }
```

Syntax Description

| | |
|-------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| ipv6 | Configure IPv6 features |
| lisp | LISP global configuration commands |
| map-cache | Configures static EID-to-RLOC mappings for an ITR |
| <i>eid-prefix</i> | IP EID-prefix for RLOC static mapping |
| <i>locator</i> | IP address of loopback or other ETR loopback interface |
| <i>priority</i> | Configures which Locators from a set are preferred |
| <i>priority</i> | Lower priority Locator takes preference |
| <i>weight</i> | Traffic load-spreading among Locators |
| <i>weight</i> | Specified in a percentage from 0 to 100 |
| down | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| drop | Drop packets that match this map-cache entry |
| native-forward | Natively forward packets that match his map-cache entry |
| map-request | Send Map-Request for LISP destination EID |

Command Mode

- /exec/configure /exec/configure/vrf

ip lisp map-request-source

{ [no] ip lisp map-request-source <source> } | { no ip lisp map-request-source } | { [no] ipv6 lisp map-request-source <source6> } | { no ipv6 lisp map-request-source }

Syntax Description

| | |
|--------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| ipv6 | Configure IPv6 features |
| lisp | LISP global configuration commands |
| map-request-source | Configures source address for Map-Request message |
| <i>source</i> | Source address for IPv4 Map-Request message |

Command Mode

- /exec/configure /exec/configure/vrf

ip lisp map-resolver

{ [no] { ip | ipv6 } lisp map-resolver }

Syntax Description

| | |
|--------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| ipv6 | Configure IPv6 features |
| lisp | LISP global configuration commands |
| map-resolver | Configures LISP Map Resolver functionality |

Command Mode

- /exec/configure /exec/configure/vrf

ip lisp map-server

{ [no] { ip | ipv6 } lisp map-server }

Syntax Description

| | |
|------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| ipv6 | Configure IPv6 features |
| lisp | LISP global configuration commands |
| map-server | Configures LISP Map Server functionality |

Command Mode

- /exec/configure /exec/configure/vrf

ip lisp multicast

[no] ip lisp multicast

Syntax Description

| | |
|-----------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| lisp | LISP global configuration commands |
| multicast | Configures LISP to carry multicast traffic, when ITR or ETR function is enabled |

Command Mode

- /exec/configure /exec/configure/vrf

ip lisp nat-traversal

[no] { ip | ipv6 } lisp nat-traversal

Syntax Description

| | |
|---------------|--|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| ipv6 | Configure IPv6 features |
| lisp | LISP interface configuration commands |
| nat-traversal | Send Echo messages to Map-Server to get global locator |

Command Mode

- /exec/configure/if-igp

ip lisp ntr

[no] ip lisp ntr <locator>

Syntax Description

| | |
|----------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| lisp | LISP global configuration commands |
| ntr | Configures LISP NAT Tunnel Router (NTR) |
| <i>locator</i> | Local IP address in locator namespace |

Command Mode

- /exec/configure /exec/configure/vrf

ip lisp proxy-etr

{ { [no] ip lisp proxy-etr } | { [no] ipv6 lisp proxy-etr } }

Syntax Description

| | |
|-------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| ipv6 | Configure IPv6 features |
| lisp | LISP global configuration commands |
| proxy-etr | Configures a Proxy ETR (PETR) |
| <i>lisp</i> | |

Command Mode

- /exec/configure /exec/configure/vrf

ip lisp proxy-itr

```
{ { [ no ] ip lisp proxy-itr { <local-rloc> | <local-rloc6> } + } | { [ no ] ipv6 lisp proxy-itr { <local-rloc> | <local-rloc6> } + } }
```

Syntax Description

| | |
|-------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| ipv6 | Configure IPv6 features |
| lisp | LISP global configuration commands |
| proxy-itr | Configures a Proxy ITR (PTR) |
| <i>local-rloc</i> | Local IP address in locator namespace |
| <i>lisp</i> | |

Command Mode

- /exec/configure /exec/configure/vrf

ip lisp shortest-eid-prefix-length

{ { [no] ip lisp shortest-eid-prefix-length <pl> } | { [no] ipv6 lisp shortest-eid-prefix-length <pl6> } }

Syntax Description

| | |
|----------------------------|--|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| ipv6 | Configure IPv6 features |
| lisp | LISP global configuration commands |
| shortest-eid-prefix-length | Do not accept EID-prefixes shorter than configured value |
| <i>pl</i> | IPv4 EID-prefix length |
| <i>pl6</i> | IPv6 EID-prefix length |

Command Mode

- /exec/configure /exec/configure/vrf

ip lisp source-locator

ip lisp source-locator

```
{ [ no ] { ip | ipv6 } lisp source-locator <interface> [ secondary ] }
```

Syntax Description

| | |
|------------------|--|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| ipv6 | Configure IPv6 features |
| lisp | LISP interface configuration commands |
| source-locator | Select source locator when destination locator uses this interface |
| <i>interface</i> | Use primary address from interface as source locator |
| secondary | (Optional) Use secondary address on interface as source locator |

Command Mode

- /exec/configure/if-igp

ip lisp translate inside outside

{ { [no] ip lisp translate inside <nrEID> outside <rEID> } | { [no] ipv6 lisp translate inside <nrEID6> outside <rEID6> } }

Syntax Description

| | |
|--------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| ipv6 | Configure IPv6 features |
| lisp | LISP global configuration commands |
| translate | Translate source address on ITR or destination address on ETR |
| inside | Site-based non-routable EID |
| <i>nrEID</i> | IPv4 inside address |
| outside | External-based routable EID |
| <i>rEID</i> | IPv4 outside address |

Command Mode

- /exec/configure /exec/configure/vrf

ip lisp use-bgp-locators

ip lisp use-bgp-locators

[no] { ip | ipv6 } lisp use-bgp-locators [route-map <rmap-name>]

Syntax Description

| | |
|------------------|--|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| ipv6 | Configure IPv6 features |
| lisp | LISP global configuration commands |
| use-bgp-locators | Use next-hops from BGP as locators for map-cache entries |
| route-map | (Optional) Route-map applied to on-demand routes. |
| <i>rmap-name</i> | (Optional) Route-map name |

Command Mode

- /exec/configure /exec/configure/vrf

ip lisp use-petr priority weight

[no] { ip | ipv6 } lisp use-petr { <petr> | <petr6> } priority <priority> weight <weight>

Syntax Description

| | |
|-----------------|--|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| ipv6 | Configure IPv6 features |
| lisp | LISP global configuration commands |
| use-petr | Encapsulate to Proxy ETR for matching forward-native entry |
| <i>petr</i> | IPv4 locator address of PETR |
| priority | Configures which Locators from a set are preferred |
| <i>priority</i> | Lower priority Locator takes preference |
| weight | Traffic load-spreading among Locators |
| <i>weight</i> | Specified in a percentage from 0 to 100 |

Command Mode

- /exec/configure /exec/configure/vrf

ip load-sharing address

[no] ip load-sharing address { source-destination [port source-destination2 [symmetric | inner { all [infra-mode] | greheader [symmetric] }] | gre | gre-outer | gtpu | ipv6-flowlabel | ttl | { [udf offset <offset> length <length>] }] | destination port2 destination2 | source } { [rotate <rotate>] | [concatenation] } + [universal-id <random-seed>] [hardware { lb-keyshift <value1> | lb-2nd-hier-keyshift <value2> } +] | no ip load-sharing address

Syntax Description

| | |
|---------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| load-sharing | ECMP load-sharing |
| address | Configure source/destination addresses, port numbers and hash |
| source-destination | Use both source and destination values for address |
| port | (Optional) Use source-destination value for port |
| gre | (Optional) Use source-destination value for gre-key |
| symmetric | (Optional) Use Symmetric load balance |
| inner | (Optional) Use inner header to load balance |
| all | (Optional) Use inner header for hashing for all the traffic |
| infra-mode | (Optional) Use inner header for hashing for all traffic, change mode to infra |
| greheader | (Optional) Use GRE header fields for hashing |
| gre-outer | (Optional) Use outer IPv4 header fields for GRE tunnel hashing |
| gtpu | (Optional) Use GTPU TEID value for port source-destination |
| ipv6-flowlabel | (Optional) Use IPV6 Flow Label value for port source-destination |
| ttl | (Optional) Use ttl value to be used in hash for source port |
| udf | (Optional) Use udf value to be used in hash for source port |
| offset | (Optional) Offset in bytes for UDF (from offset base - L3 header) |
| offset | (Optional) Enter Offset value in bytes for UDF (from offset base - L3 header) |
| length | (Optional) Length in bits from udf offset |
| length | (Optional) Enter Length in bits from udf offset |
| 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 |
| hardware | (Optional) Enter hardware key to change |
| lb-keyshift | (Optional) Enter the value for ECMP LB KEY SHIFT |
| <i>value1</i> | (Optional) Enter the value for lb-keyshift, default value is 7 |
| lb-2nd-hier-keyshift | (Optional) Enter the value for ECMP 2ND HIER LB KEY SHIFT |
| <i>value2</i> | (Optional) Enter the value for lb-2nd-hier-keyshift, default value is 3 |
| rotate | (Optional) Offset to be used in the hash |
| <i>rotate</i> | (Optional) Value used for offset, default value is 32 |
| concatenation | (Optional) Enable/Disable concatenation |
| universal-id | (Optional) Universal-id to randomize hash functions for load-balance |
| <i>random-seed</i> | (Optional) Value used to randomize hash |

Command Mode

- /exec/configure

ip local-proxy-arp

ip local-proxy-arp

{ ip local-proxy-arp [no-hw-flooding] | no ip local-proxy-arp [no-hw-flooding] }

Syntax Description

| | |
|-----------------|--|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| local-proxy-arp | Configure local proxy ARP |
| no-hw-flooding | (Optional) Configure local proxy ARP without hardware flooding |

Command Mode

- /exec/configure/if-igp /exec/configure/if-vlan-common

ip local policy route-map

ip local policy route-map <route-map-name> | no ip local policy route-map [<route-map-name> | <route-map-name>]

Syntax Description

| | |
|-----------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| local | Configure local PBR feature |
| policy | Configure PBR feature |
| route-map | Route-map for PBR |
| <i>route-map-name</i> | Route-map name |
| <i>route-map-name</i> | (Optional) Route-map name |
| <i>route-map-name</i> | (Optional) Known route-map name |

Command Mode

- /exec/configure /exec/configure/vrf

ip mfwd mstatic register

ip mfwd mstatic register

[no] ip mfwd mstatic register

Syntax Description

| | |
|----------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| mfwd | Configures Global IP Multicast Forwarding |
| mstatic | Static Multicast Route |
| register | Register |

Command Mode

- /exec/configure

ip mroute

[no] ip mroute { <ip-addr> <ip-mask> | <ip-prefix> } { { <next-hop> | <nh-prefix> } | <interface> } [<pref>] [vrf { <vrf-name> | <vrf-known-name> }]

Syntax Description

| | |
|-----------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| mroute | Configure multicast RPF static route |
| <i>ip-addr</i> | IP prefix in format i.i.i.i |
| <i>ip-mask</i> | IP network mask in format m.m.m.m |
| <i>ip-prefix</i> | IP prefix and network mask length in format x.x.x.x/m |
| <i>next-hop</i> | IP next-hop address in format i.i.i.i |
| <i>nh-prefix</i> | IP next-hop prefix in format i.i.i.i/m |
| <i>interface</i> | Interface for interface static multicast routes |
| <i>pref</i> | (Optional) Route preference |
| 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 msdp description

ip msdp description

`ip msdp description <peer-address> <text> | no ip msdp description <peer-address> [<text>]`

Syntax Description

| | |
|---------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| msdp | MSDP global configuration commands |
| description | Configure MSDP description for peer |
| <i>peer-address</i> | IP address of MSDP peer |
| <i>text</i> | Text description |

Command Mode

- /exec/configure /exec/configure/vrf

ip msdp flush-routes

[no] ip msdp flush-routes

Syntax Description

| | |
|--------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| msdp | MSDP global configuration commands |
| flush-routes | Remove routes when restarting MSDP |

Command Mode

- /exec/configure /exec/configure/vrf

ip msdp group-limit source

ip msdp group-limit source

[no] ip msdp group-limit <limit> source <sprefix>

Syntax Description

| | |
|----------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| msdp | MSDP global configuration commands |
| group-limit | Limit the number of groups per source |
| <i>limit</i> | Limit on number of groups |
| source | Sources to limit groups to |
| <i>sprefix</i> | Prefix to match sources against |

Command Mode

- /exec/configure /exec/configure/vrf

ip msdp keepalive

```
ip msdp keepalive <peer-address> <interval> <timeout> | no ip msdp keepalive <peer-address> [ <interval> <timeout> ]
```

Syntax Description

| | |
|---------------------|--|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| msdp | MSDP global configuration commands |
| keepalive | Configure MSDP keepalive parameters for peer |
| <i>peer-address</i> | IP address of MSDP peer |
| <i>interval</i> | Keepalive interval in seconds |
| <i>timeout</i> | Keepalive timeout in seconds |

Command Mode

- /exec/configure /exec/configure/vrf

ip msdp keychain

ip msdp keychain

`ip msdp keychain <peer-address> <name> | no ip msdp keychain <peer-address> [<name>]`

Syntax Description

| | |
|---------------------------|---------------------------------------|
| <code>no</code> | Negate a command or set its defaults |
| <code>ip</code> | Configure IP features |
| <code>msdp</code> | MSDP global configuration commands |
| <code>keychain</code> | Configure MD5 authentication keychain |
| <code>peer-address</code> | IP address of MSDP peer |
| <code>name</code> | Keychain name |

Command Mode

- /exec/configure /exec/configure/vrf

ip msdp mesh-group

ip msdp mesh-group <peer-address> <name> | no ip msdp mesh-group <peer-address> [<name>]

Syntax Description

| | |
|---------------------|---------------------------------------|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| msdp | MSDP global configuration commands |
| mesh-group | Configure member of mesh-group |
| <i>name</i> | Name of mesh-group |
| <i>peer-address</i> | IP address of MSDP peer in mesh-group |

Command Mode

- /exec/configure /exec/configure/vrf

ip msdp originator-id

ip msdp originator-id

ip msdp originator-id <interface> | no ip msdp originator-id [<interface>]

Syntax Description

| | |
|------------------|---|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| msdp | MSDP global configuration commands |
| originator-id | Configure alternative router-id for MSDP |
| <i>interface</i> | Use IP address of interface for originator-id |

Command Mode

- /exec/configure /exec/configure/vrf

ip msdp password

ip msdp password <peer-address> <password> | no ip msdp password <peer-address> [<password>]

Syntax Description

| | |
|---------------------|---------------------------------------|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| msdp | MSDP global configuration commands |
| password | Configure MD5 authentication password |
| <i>peer-address</i> | IP address of MSDP peer |
| <i>password</i> | MD5 password |

Command Mode

- /exec/configure /exec/configure/vrf

```
ip msdp peer connect-source
```

ip msdp peer connect-source

{ { ip msdp peer <peer-address> connect-source <interface> [remote-as <asn>] } | { no ip msdp peer <peer-address> [connect-source <interface>] [remote-as <asn>] } }

Syntax Description

| | |
|---------------------|--|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| msdp | MSDP global configuration commands |
| peer | Configure MSDP peer |
| <i>peer-address</i> | IP address of MSDP peer |
| connect-source | Configure local IP address for TCP connection |
| <i>interface</i> | Use IP address of interface for peer address |
| remote-as | (Optional) Configure remote Autonomous System Number |
| <i>asn</i> | (Optional) AS number |

Command Mode

- /exec/configure /exec/configure/vrf

ip msdp reconnect-interval

ip msdp reconnect-interval <interval> | no ip msdp reconnect-interval [<interval>]

Syntax Description

| | |
|--------------------|---|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| msdp | MSDP global configuration commands |
| reconnect-interval | Configure connection reconnect interval |
| <i>interval</i> | Interval in seconds |

Command Mode

- /exec/configure /exec/configure/vrf

ip msdp redistribute

ip msdp redistribute

[no] ip msdp redistribute [route-map <route-map-name> | prefix-list <prefix-list-name>]

Syntax Description

| | |
|-------------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| msdp | MSDP global configuration commands |
| redistribute | Configure SA policy for all MSDP peer |
| route-map | (Optional) route-map policy |
| <i>route-map-name</i> | (Optional) Route-map name |
| prefix-list | (Optional) Prefix list policy |
| <i>prefix-list-name</i> | (Optional) Name of prefix-list |

Command Mode

- /exec/configure /exec/configure/vrf

ip msdp sa-interval

ip msdp sa-interval <interval> | no ip msdp sa-interval [<interval>]

Syntax Description

| | |
|-----------------|---|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| msdp | MSDP global configuration commands |
| sa-interval | Configure Source-Active message transmission interval |
| <i>interval</i> | Interval in seconds |

Command Mode

- /exec/configure /exec/configure/vrf

ip msdp sa-limit

ip msdp sa-limit

`ip msdp sa-limit <peer-address> <limit> | no ip msdp sa-limit <peer-address> [<limit>]`

Syntax Description

| | |
|---------------------|---|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| msdp | MSDP global configuration commands |
| sa-limit | Configure maximum (S,G) entries allowed |
| <i>limit</i> | Number of (S,G) entries |
| <i>peer-address</i> | IP address of MSDP peer in mesh-group |

Command Mode

- /exec/configure /exec/configure/vrf

ip msdp sa-policy in

[no] ip msdp sa-policy <peer-address> { <route-map-name> | prefix-list <prefix-list-name> | <rtr_pol_name> } in

Syntax Description

| | |
|-------------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| msdp | MSDP global configuration commands |
| sa-policy | Configure SA policy for MSDP peer |
| prefix-list | Prefix list policy |
| in | Input policy |
| <i>peer-address</i> | IP address of MSDP peer for SA policy |
| <i>route-map-name</i> | Route-map name |
| <i>prefix-list-name</i> | Name of prefix-list |
| <i>rtr_pol_name</i> | An existing routing-rules policy |

Command Mode

- /exec/configure /exec/configure/vrf

```
ip msdp sa-policy out
```

ip msdp sa-policy out

[no] ip msdp sa-policy <peer-address> { <route-map-name> | prefix-list <prefix-list-name> | <rtr_pol_name> } out

Syntax Description

| | |
|-------------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| msdp | MSDP global configuration commands |
| sa-policy | Configure SA policy for MSDP peer |
| prefix-list | Prefix list policy |
| out | Output policy |
| <i>peer-address</i> | IP address of MSDP peer for SA policy |
| <i>route-map-name</i> | Route-map name |
| <i>prefix-list-name</i> | Name of prefix-list |
| <i>rtr_pol_name</i> | An existing routing-rules policy |

Command Mode

- /exec/configure /exec/configure/vrf

ip msdp shutdown

ip msdp shutdown <peer-address> | no ip msdp shutdown <peer-address>

Syntax Description

| | |
|---------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| msdp | MSDP global configuration commands |
| shutdown | Administratively shut down peer |
| <i>peer-address</i> | IP address of MSDP peer |

Command Mode

- /exec/configure /exec/configure/vrf

ip mtu eigrp

ip mtu eigrp

```
{ { { ip | ipv6 } mtu eigrp <eigrp-ptag> <mtu> } | { no { ip | ipv6 } mtu eigrp <eigrp-ptag> [ <mtu> ] } }
```

Syntax Description

| | |
|-------------------|---|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| ipv6 | Configure IPv6 features |
| mtu | Set Max Packet Size to be used by EIGRP |
| eigrp | EIGRP interface configuration commands |
| <i>eigrp-ptag</i> | Process tag |
| <i>mtu</i> | Interface MTU |
| <i>eigrp-ptag</i> | |

Command Mode

- /exec/configure/if-igp

ip multicast group-range prefix-list

{ ip multicast group-range prefix-list <prefix-list-name> } | { no ip multicast group-range prefix-list [<prefix-list-name>] }

Syntax Description

| | |
|-------------------------|---|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| multicast | Display multicast information |
| group-range | Display group-range prefix |
| prefix-list | Group range prefix-list policy for multicast boundary |
| <i>prefix-list-name</i> | Name of prefix-list |

Command Mode

- /exec/configure /exec/configure/vrf

ip multicast multipath

[no] ip multicast multipath { none | legacy | s-g-hash [next-hop-based] | nbm }

Syntax Description

| | |
|----------------|--|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| multicast | Configure IP multicast global parameters |
| multipath | Configure ECMP multicast load splitting |
| legacy | Configure hash based on source and group |
| none | Disable ECMP multicast load splitting |
| s-g-hash | Configure hash based on source and group address |
| next-hop-based | (Optional) Configure hash based on source, group, next-hop address |
| nbm | Configure NBM controlled RPF interface |

Command Mode

- /exec/configure /exec/configure/vrf

ip multicast multipath resilient

[no] ip multicast multipath resilient

Syntax Description

| | |
|-----------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| multicast | Configure IP multicast global parameters |
| multipath | Configure ECMP multicast load splitting |
| resilient | Configure resilient RPF interface |

Command Mode

- /exec/configure /exec/configure/vrf

ip multicast overlay-distributed-dr

ip multicast overlay-distributed-dr

[no] ip multicast overlay-distributed-dr

Syntax Description

| | |
|------------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| multicast | Configure multicast |
| overlay-distributed-dr | Configure node as Distributed-DR |

Command Mode

- /exec/configure

ip multicast overlay-spt-only

[no] ip multicast overlay-spt-only

Syntax Description

| | |
|------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| multicast | Configure multicast |
| overlay-spt-only | Enable L3-Overlay spt(shortest-path-tree) only |

Command Mode

- /exec/configure

ip multicast rpf select vrf group-list

{ { ip multicast rpf select { vrf { <vrf-name> | <vrf-known-name> } group-list <prefix> } } | { no ip multicast rpf select { vrf { <vrf-name> | <vrf-known-name> } group-list <prefix> } } }

Syntax Description

| | |
|-----------------------|--|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| multicast | Configure IP multicast global parameters |
| rpf | Configure RPF check |
| select | Configure VRF for RPF check |
| vrf | VRF for RPF lookup |
| <i>vrf-name</i> | VRF name |
| <i>vrf-known-name</i> | Known VRF name |
| group-list | Group range for RPF select |
| <i>prefix</i> | Group range prefix |

Command Mode

- /exec/configure /exec/configure/vrf

ip name-server

```
[no] ip name-server { { <ipv4_0> | <ipv6_1> } [ { <ipv4_2> | <ipv6_3> } [ { <ipv4_4> | <ipv6_5> } [ { <ipv4_6> | <ipv6_7> } [ { <ipv4_8> | <ipv6_9> } [ { <ipv4_10> | <ipv6_11> } ] ] ] ] ] | { <ipv4_12> | <ipv6_13> } [ source-interface <ifnum> | use-vrf { <vrf-name> | <vrf-known-name> } ] + | { <ipv4_14> | <ipv6_15> } [ { <ipv4_16> | <ipv6_17> } [ source-interface <ifnum> | use-vrf { <vrf-name> | <vrf-known-name> } ] + ] | { <ipv4_18> | <ipv6_19> } [ { <ipv4_20> | <ipv6_21> } [ { <ipv4_22> | <ipv6_23> } [ source-interface <ifnum> | use-vrf { <vrf-name> | <vrf-known-name> } ] + ] ] | { <ipv4_24> | <ipv6_25> } [ { <ipv4_26> | <ipv6_27> } [ { <ipv4_28> | <ipv6_29> } [ { <ipv4_30> | <ipv6_31> } [ source-interface <ifnum> | 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> } [ source-interface <ifnum> | 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> } [ source-interface <ifnum> | use-vrf { <vrf-name> | <vrf-known-name> } ] + ] ] ] ] }
```

Syntax Description

| | |
|-----------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| name-server | Specify nameserver address |
| <i>ipv4_0</i> | Enter an IPv4 address |
| <i>ipv4_2</i> | (Optional) Enter an IPv4 address |
| <i>ipv4_4</i> | (Optional) Enter an IPv4 address |
| <i>ipv4_6</i> | (Optional) Enter an IPv4 address |
| <i>ipv4_8</i> | (Optional) Enter an IPv4 address |
| <i>ipv4_10</i> | (Optional) Enter an IPv4 address |
| <i>ipv4_12</i> | Enter an IPv4 address |
| source-interface | (Optional) Configure source interface |
| <i>ifnum</i> | (Optional) Source interface |
| 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 |

ip name-server

| | |
|----------------|----------------------------------|
| <i>ipv4_20</i> | (Optional) Enter an IPv4 address |
| <i>ipv4_22</i> | (Optional) Enter an IPv4 address |
| <i>ipv4_24</i> | Enter an IPv4 address |
| <i>ipv4_26</i> | (Optional) Enter an IPv4 address |
| <i>ipv4_28</i> | (Optional) Enter an IPv4 address |
| <i>ipv4_30</i> | (Optional) Enter an IPv4 address |
| <i>ipv4_32</i> | Enter an IPv4 address |
| <i>ipv4_34</i> | (Optional) Enter an IPv4 address |
| <i>ipv4_36</i> | (Optional) Enter an IPv4 address |
| <i>ipv4_38</i> | (Optional) Enter an IPv4 address |
| <i>ipv4_40</i> | (Optional) Enter an IPv4 address |
| <i>ipv4_42</i> | Enter an IPv4 address |
| <i>ipv4_44</i> | (Optional) Enter an IPv4 address |
| <i>ipv4_46</i> | (Optional) Enter an IPv4 address |
| <i>ipv4_48</i> | (Optional) Enter an IPv4 address |
| <i>ipv4_50</i> | (Optional) Enter an IPv4 address |
| <i>ipv4_52</i> | (Optional) Enter an IPv4 address |

Command Mode

- /exec/configure /exec/configure/vrf

ip nat inside

[no] ip nat { inside | outside }

Syntax Description

| | |
|---------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| nat | NAT interface commands |
| inside | Inside interface for address translation |
| outside | Outside interface for address translation |

Command Mode

- /exec/configure/if-vni/ /exec/configure/if-port-channel /exec/configure/if-vlan
/exec/configure/if-remote-ethernet /exec/configure/if-igp /exec/configure/if-routing

ip nat inside source

```
[no] ip nat inside source { { static <insideLocalIP> <insideGlobalIP> [ vrf <vrf-name> [ match-in-vrf ] ] [ group <group-id> [ dynamic ] ] [ no-alias ] [ add-route ] } | { static { tcp | udp } <insideLocalIP> <insideLocalPort> <insideGlobalIP> <insideGlobalPort> [ vrf <vrf-name> [ match-in-vrf ] ] [ group <group-id> [ dynamic ] ] [ no-alias ] [ add-route ] } | { list <acl-name> } { pool <pool-name> [ vrf <vrf-name> [ match-in-vrf ] ] [ overload ] | interface <globalAddrInterface> [ vrf <vrf-name> [ match-in-vrf ] ] overload } [ group <group-id> dynamic ] [ add-route ] }
```

Syntax Description

| | |
|-------------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| nat | NAT configuration commands |
| inside | Inside address translation |
| source | Source address translation |
| static | Specify static local->global mapping |
| tcp | Transmission Control Protocol |
| udp | User Datagram Protocol |
| list | Specify access list describing local addresses |
| pool | Name pool of global addresses |
| interface | Specify interface for global address |
| vrf | (Optional) Specify vrf |
| match-in-vrf | (Optional) Match incoming vrf |
| no-alias | (Optional) Do not create alias for this NAT-address |
| dynamic | (Optional) Dynamic twice NAT group |
| <i>insideLocalIP</i> | Inside local IP address |
| <i>insideLocalPort</i> | Local UDP/TCP port |
| <i>insideGlobalIP</i> | Inside global IP address |
| <i>insideGlobalPort</i> | Global UDP/TCP port |
| group | (Optional) Specify group for the twice NAT |
| <i>group-id</i> | (Optional) Group ID for the twice NAT |
| <i>acl-name</i> | Access-list-name |

| | |
|----------------------------|---|
| <i>pool-name</i> | Pool name for global addresses |
| <i>add-route</i> | (Optional) Add a static route for outside local address |
| <i>vrf-name</i> | (Optional) vrf name |
| <i>globalAddrInterface</i> | interface type and number in module/slot format |
| <i>overload</i> | (Optional) Overload an address translation |

Command Mode

- /exec/configure

ip nat outside source

ip nat outside source

```
[no] ip nat outside source { static <outsideGlobalIP> <outsideLocalIP> [ vrf <vrf-name> [ match-in-vrf ] ] [ group <group-id> [ dynamic ] ] [ no-alias ] [ add-route ] | static { tcp | udp } <outsideGlobalIP> <outsideGlobalPort> <outsideLocalIP> <outsideLocalPort> [ vrf <vrf-name> [ match-in-vrf ] ] [ group <group-id> [ dynamic ] ] [ no-alias ] [ add-route ] | list <acl-name> pool <pool-name> [ vrf <vrf-name> [ match-in-vrf ] ] [ group <group-id> dynamic ] } [ add-route ]
```

Syntax Description

| | |
|--------------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| nat | NAT configuration commands |
| outside | Outside address translation |
| source | Source address translation |
| static | Specify static global->local mapping |
| tcp | Transmission Control Protocol |
| udp | User Datagram Protocol |
| list | Specify access list describing local addresses |
| pool | Name pool of global addresses |
| vrf | (Optional) Specify vrf |
| match-in-vrf | (Optional) Match incoming vrf |
| no-alias | (Optional) Do not create alias for this NAT-address |
| <i>outsideGlobalIP</i> | Outside global IP address |
| <i>outsideGlobalPort</i> | Outside Global UDP/TCP port |
| <i>outsideLocalIP</i> | Outside local IP address |
| <i>outsideLocalPort</i> | Outside Local UDP/TCP port |
| group | (Optional) Specify group for the twice NAT |
| dynamic | (Optional) Dynamic twice NAT group |
| <i>group-id</i> | (Optional) Group ID for the twice NAT |
| <i>acl-name</i> | Access-list-name |
| <i>vrf-name</i> | (Optional) vrf name |
| <i>pool-name</i> | Pool name for global addresses |

| | |
|-----------|---|
| add-route | (Optional) Add a static route for outside local address |
|-----------|---|

Command Mode

- /exec/configure

ip nat pool netmask

ip nat pool netmask

`ip nat pool <pool-name> { netmask <netmask> | prefix-length <prefix-length> } [no-alias]`

Syntax Description

| | |
|----------------------|---|
| ip | Configure IP features |
| nat | NAT configuration commands |
| pool | Define pool of addresses |
| netmask | Specify the network mask |
| prefix-length | Specify the prefix length |
| no-alias | (Optional) Do not create alias for these pool addresses |
| <i>pool-name</i> | Pool name |
| <i>netmask</i> | Network mask |
| <i>prefix-length</i> | Prefix length |

Command Mode

- /exec/configure

ip nat pool netmask

```
ip nat pool <pool-name><start-ip><end-ip> { netmask <netmask> | prefix-length <prefix-length> } [ no-alias ] | no ip nat pool <pool-name> [ <start-ip><end-ip> { netmask <netmask> | prefix-length <prefix-length> } ]
```

Syntax Description

| | |
|----------------------|---|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| nat | NAT configuration commands |
| pool | Define pool of addresses |
| netmask | Specify the network mask |
| prefix-length | Specify the prefix length |
| no-alias | (Optional) Do not create alias for these pool addresses |
| <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

```
ip nat translation { { { tcp-timeout | udp-timeout | icmp-timeout | timeout } <timeout> } | { finrst-timeout { <fin_timeout> | never } | syn-timeout { <syn_timeout> | never } | timeout <timeout> } } | no ip nat translation
{ { { tcp-timeout | udp-timeout | icmp-timeout | timeout } <timeout> } | { finrst-timeout { <fin_timeout> | never } | syn-timeout { <syn_timeout> | never } | timeout } }
```

Syntax Description

| | |
|--------------------|---|
| no | 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 |
| icmp-timeout | Specify timeout for NAT ICMP flows |
| finrst-timeout | Specify timeout for NAT TCP flows after a FIN or RST |
| syn-timeout | Specify timeout for NAT TCP flows after a SYN and no further data |
| timeout | Specify timeout for dynamic NAT flows |
| never | Never timeout |
| <i>timeout</i> | Timeout in seconds |
| <i>fin_timeout</i> | Timeout in seconds |
| <i>syn_timeout</i> | Timeout in seconds |

Command Mode

- /exec/configure

ip nat translation creation-delay

{ ip nat translation creation-delay <batch-timeout> } | { no ip nat translation creation-delay }

Syntax Description

| | |
|----------------------|---|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| nat | NAT configuration commands |
| translation | NAT translation entry configuration |
| creation-delay | Translation entries creation delay due to batching before program to team |
| <i>batch-timeout</i> | 0/250/500/750/1000 |

Command Mode

- /exec/configure

ip nat translation max-entries

ip nat translation max-entries

ip nat translation max-entries [all-host] <max> | no ip nat translation max-entries [all-host]

Syntax Description

| | |
|-------------|--|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| nat | NAT configuration commands |
| translation | NAT translation entry configuration |
| max-entries | Specify maximum number of NAT dynamic entries |
| all-host | (Optional) Specify maximum number of NAT entries for each host |
| <i>max</i> | Number of entries |

Command Mode

- /exec/configure

ip nat translation sampling-timeout

[no] ip nat translation sampling-timeout <timeout>

Syntax Description

| | |
|------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| nat | NAT configuration commands |
| translation | NAT translation entry configuration |
| sampling-timeout | Specify timeout after which the checking for activity is done |
| <i>timeout</i> | Timeout in seconds (max: 2days, recommended 900s) |

Command Mode

- /exec/configure

ip next-hop-self eigrp

ip next-hop-self eigrp

[no] { ip | ipv6 } next-hop-self eigrp <eigrp-ptag>

Syntax Description

| | |
|-------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| ipv6 | Configure IPv6 features |
| next-hop-self | Configures IP-EIGRP next-hop-self |
| eigrp | EIGRP interface configuration commands |
| <i>eigrp-ptag</i> | Process tag |

Command Mode

- /exec/configure/if-igp

ip offset-list eigrp

[no] { ip | ipv6 } offset-list eigrp <eigrp-ptag> { { route-map <map> } | { prefix-list <list> } } { in | out } <offset>

Syntax Description

| | |
|-------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| ipv6 | Configure IPv6 features |
| offset-list | Add or subtract offset from EIGRP metrics |
| eigrp | EIGRP interface configuration commands |
| <i>eigrp-ptag</i> | Process tag |
| route-map | Use a route-map for offset-list selection |
| <i>map</i> | Route-map name |
| prefix-list | Use a prefix-list for offset-list selection |
| <i>list</i> | Reference to prefix-list name |
| in | Perform offset on incoming updates |
| out | Perform offset on outgoing updates |
| <i>offset</i> | Offset |

Command Mode

- /exec/configure/if-igp

ip ospf advertise-subnet

ip ospf advertise-subnet

[no] ip ospf advertise-subnet

Syntax Description

| | |
|------------------|--|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| ospf | OSPF configuration commands |
| advertise-subnet | Advertise loopback interface IP subnet in router LSA |

Command Mode

- /exec/configure/if-loopback

ip ospf authentication-key

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

Syntax Description

| | |
|--------------------|--|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| ospf | OSPF configuration commands |
| authentication-key | Configure the authentication key for the interface |
| <i>key</i> | Authentication key |

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel
/exec/configure/if-mgmt-config

ip ospf authentication

[no] ip ospf authentication [message-digest | null]

Syntax Description

| | |
|----------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| ospf | OSPF configuration commands |
| authentication | Authentication on the interface |
| message-digest | (Optional) Use message-digest authentication |
| null | (Optional) Use null(disable) authentication |

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel
/exec/configure/if-mgmt-config

ip ospf authentication key-chain

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

Syntax Description

| | |
|-----------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| ospf | OSPF configuration commands |
| authentication | Authentication on the interface |
| key-chain | Authentication password key-chain |
| <i>keychain</i> | Key-chain name |

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel
/exec/configure/if-mgmt-config

ip ospf bfd

ip ospf bfd

[no] ip ospf bfd [disable]

Syntax Description

| | |
|---------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| ospf | OSPF configuration commands |
| bfd | Enable BFD on this interface |
| disable | (Optional) Disable BFD on this interface |

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mgmt-config

ip ospf cost

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

Syntax Description

| | |
|-------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| ospf | OSPF configuration commands |
| cost | Cost associated with interface |
| <i>cost</i> | Cost value |

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel
/exec/configure/if-mgmt-config

ip ospf dead-interval

ip ospf dead-interval

{ ip ospf dead-interval <interval> } | { no ip ospf dead-interval [<interval>] }

Syntax Description

| | |
|-----------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| ospf | OSPF configuration commands |
| dead-interval | Dead interval |
| <i>interval</i> | (seconds) |

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel
/exec/configure/if-mgmt-config

ip ospf hello-interval

{ ip ospf hello-interval <interval> } | { no ip ospf hello-interval [<interval>] }

Syntax Description

| | |
|-----------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| ospf | OSPF configuration commands |
| hello-interval | Hello interval |
| <i>interval</i> | (seconds) |

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel
/exec/configure/if-mgmt-config

ip ospf message-digest-key md5

{ { ip ospf message-digest-key <keyid> md5 <key> } | { no ip ospf message-digest-key <keyid> [md5 <key>] } }

Syntax Description

| | |
|--------------------|--|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| ospf | OSPF configuration commands |
| message-digest-key | Message digest authentication password (key) |
| <i>keyid</i> | Key ID |
| md5 | Use MD5 algorithm |
| <i>key</i> | The OSPF password (key) |

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel
/exec/configure/if-mgmt-config

ip ospf mtu-ignore

[no] ip ospf mtu-ignore

Syntax Description

| | |
|------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| ospf | OSPF configuration commands |
| mtu-ignore | Disable OSPF MTU mismatch detection |

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel
/exec/configure/if-mgmt-config

ip ospf network broadcast

ip ospf network broadcast

{ ip ospf network { broadcast | point-to-point } } | { no ip ospf network [{ broadcast | point-to-point }] }

Syntax Description

| | |
|----------------|---|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| ospf | OSPF configuration commands |
| network | Network type |
| broadcast | Specify OSPF broadcast multi-access network |
| point-to-point | Specify OSPF point-to-point network |

Command Mode

- /exec/configure/if-broadcast /exec/configure/if-p2p /exec/configure/if-mgmt-config

ip ospf network point-to-point

{ ip ospf network point-to-point } | { no ip ospf network [point-to-point] }

Syntax Description

| | |
|----------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| ospf | OSPF configuration commands |
| network | Network type |
| point-to-point | Specify OSPF point-to-point network |

Command Mode

- /exec/configure/if-loopback

ip ospf passive-interface

ip ospf passive-interface

[default | no] ip ospf passive-interface

Syntax Description

| | |
|-------------------|---|
| default | (Optional) Undo a command |
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| ospf | OSPF configuration commands |
| passive-interface | Suppress routing updates on the interface |

Command Mode

- /exec/configure/if-broadcast /exec/configure/if-p2p /exec/configure/if-mgmt-config

ip ospf prefix-attributes n-flag-clear

[no] ip ospf prefix-attributes n-flag-clear

Syntax Description

| | |
|-------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| ospf | OSPF configuration commands |
| prefix-attributes | Prefix attributes |
| n-flag-clear | Clear N-Flag for the interface prefixes |

Command Mode

- /exec/configure/if-loopback

ip ospf priority

ip ospf priority

{ ip ospf priority <prio> } | { no ip ospf priority [<prio>] }

Syntax Description

| | |
|-------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| ospf | OSPF configuration commands |
| priority | Router priority |
| <i>prio</i> | Router priority |

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel
/exec/configure/if-mgmt-config

ip ospf retransmit-interval

{ ip ospf retransmit-interval <interval> } | { no ip ospf retransmit-interval [<interval>] }

Syntax Description

| | |
|---------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| ospf | OSPF configuration commands |
| retransmit-interval | Packet retransmission interval |
| <i>interval</i> | (seconds) |

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel
/exec/configure/if-mgmt-config

ip ospf shutdown

ip ospf shutdown

[no] ip ospf shutdown

Syntax Description

| | |
|----------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| ospf | OSPF configuration commands |
| shutdown | shutdown ospf on this interface |

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mgmt-config

ip ospf transmit-delay

{ ip ospf transmit-delay <delay> } | { no ip ospf transmit-delay [<delay>] }

Syntax Description

| | |
|----------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| ospf | OSPF configuration commands |
| transmit-delay | Packet transmission delay |
| <i>delay</i> | (seconds) |

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel
/exec/configure/if-mgmt-config

ip passive-interface eigrp

ip passive-interface eigrp

[default | no] { ip | ipv6 } passive-interface eigrp <eigrp-ptag>

Syntax Description

| | |
|-------------------|---|
| default | (Optional) Undo a command |
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| ipv6 | Configure IPv6 features |
| passive-interface | Suppress routing updates on an interface |
| eigrp | EIGRP interface configuration commands |
| <i>eigrp-ptag</i> | Process tag |

Command Mode

- /exec/configure/if-igp

ip pim allow-rp

{ ip pim allow-rp { <route-map-name> } | no ip pim allow-rp [<route-map-name>] }

Syntax Description

| | |
|-----------------------|--|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| pim | PIM global configuration commands |
| allow-rp | Sparse-Mode RP addresses to be allowed |
| <i>route-map-name</i> | Route-map name |

Command Mode

- /exec/configure /exec/configure/vrf

ip pim anycast-rp

ip pim anycast-rp

[no] ip pim anycast-rp <anycast-rp> <rp-addr>

Syntax Description

| | |
|-------------------|--|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| pim | PIM global configuration commands |
| anycast-rp | Configure an RP in an Anycast-RP set (using PIM) |
| <i>anycast-rp</i> | Address for the Anycast-RP address |
| <i>rp-addr</i> | Address of RP in the Anycast-RP set |

Command Mode

- /exec/configure /exec/configure/vrf

ip pim assert-rate-limit

{ { ip pim assert-rate-limit <rate> } | { no ip pim assert-rate-limit [<rate>] } }

Syntax Description

| | |
|-------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| pim | PIM global configuration commands |
| assert-rate-limit | Rate limit for PIM Asserts |
| <i>rate</i> | Packets per second |

Command Mode

- /exec/configure /exec/configure/vrf

ip pim auto-enable

ip pim auto-enable

{ { no ip pim auto-enable } | { ip pim auto-enable } }

Syntax Description

| | |
|-------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| pim | PIM global configuration commands |
| auto-enable | Auto-enable configure on the vrf |

Command Mode

- /exec/configure /exec/configure/vrf

ip pim auto-rp listen

{ ip pim auto-rp { listen | forward } + } | { no ip pim auto-rp [{ listen | forward } +] }

Syntax Description

| | |
|---------|--|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| pim | PIM global configuration commands |
| auto-rp | Auto-RP protocol RP-distribution configuration |
| listen | Listen to Auto-RP messages |
| forward | Forward Auto-RP messages |

Command Mode

- /exec/configure /exec/configure/vrf

ip pim auto-rp mapping-agent-policy

{ ip pim auto-rp mapping-agent-policy { <route-map-name> | <rtr_pol_name> } | no ip pim auto-rp mapping-agent-policy [<route-map-name> | <rtr_pol_name>] }

Syntax Description

| | |
|-----------------------|---|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| pim | PIM global configuration commands |
| auto-rp | Auto-RP protocol RP-distribution configuration |
| mapping-agent-policy | Specify policy for filtering Mapping Agent messages |
| <i>route-map-name</i> | Route-map name |
| <i>rtr_pol_name</i> | An existing routing-rules policy |

Command Mode

- /exec/configure /exec/configure/vrf

ip pim auto-rp mapping-agent send-rp-discovery

{ { ip pim { { auto-rp mapping-agent } | send-rp-discovery } <interface> [scope <ttl>] } | { no ip pim { { auto-rp mapping-agent } | send-rp-discovery } [<interface>] [scope <ttl>] } }

Syntax Description

| | |
|-------------------|--|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| pim | PIM global configuration commands |
| auto-rp | Auto-RP protocol RP-distribution configuration |
| send-rp-discovery | Configures router to send Auto-RP Discovery messages |
| mapping-agent | Configures router as an Auto-RP RP-mapping agent |
| <i>interface</i> | Use IP address of interface for Auto-RP Announce messages |
| scope | (Optional) Configure the scope of Auto-RP Discovery messages |
| <i>ttl</i> | (Optional) TTL value for scope |

Command Mode

- /exec/configure /exec/configure/vrf

```
ip pim auto-rp rp-candidate-policy
```

ip pim auto-rp rp-candidate-policy

{ ip pim auto-rp rp-candidate-policy { <route-map-name> | <rtr_pol_name> } | no ip pim auto-rp rp-candidate-policy [<route-map-name> | <rtr_pol_name>] }

Syntax Description

| | |
|-----------------------|--|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| pim | PIM global configuration commands |
| auto-rp | Auto-RP protocol RP-distribution configuration |
| rp-candidate-policy | Specify policy for filtering RP candidate messages |
| <i>route-map-name</i> | Route-map name |
| <i>rtr_pol_name</i> | An existing routing-rules policy |

Command Mode

- /exec/configure /exec/configure/vrf

ip pim auto-rp rp-candidate send-rp-announce group-list route-map prefix-list

```
{ { ip pim { auto-rp rp-candidate | send-rp-announce } { <interface> | <ipaddr> } { group-list <prefix> | route-map <route-map-name> | prefix-list <prefix-list-name> } { [ scope <ttl> ] | [ interval <interval> ] | [ bidir ] } + } | { no ip pim { { auto-rp rp-candidate } | send-rp-announce } [ <interface> | <ipaddr> ] [ group-list <prefix> | route-map <route-map-name> | prefix-list <prefix-list-name> ] { [ scope <ttl> ] | [ interval <interval> ] | [ bidir ] } + } }
```

Syntax Description

| | |
|------------------|---|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| pim | PIM global configuration commands |
| auto-rp | Auto-RP protocol RP-distribution configuration |
| send-rp-announce | Configures router to send Auto-RP Announce messages |
| rp-candidate | Configures router to be an Auto-RP candidate RP |
| interface | Use IP address of interface for Auto-RP Announce messages |
| ipaddr | IP address of RP for group |
| group-list | Group range list |
| prefix | Prefix of group range |
| route-map | Group range policy for Auto-RP Candidate RP |
| route-map-name | Route-map name |
| prefix-list | Prefix List policy for Auto-RP Candidate RP |
| prefix-list-name | Name of prefix-list |
| scope | (Optional) Configure the scope of Auto-RP Announce messages |
| ttl | (Optional) TTL value for scope |
| interval | (Optional) Auto-RP Announce message transmission interval |
| interval | (Optional) Interval in seconds |
| bidir | (Optional) Group range advertised in PIM bidirectional mode |

Command Mode

- /exec/configure /exec/configure/vrf

ip pim bfd-instance

[no] ip pim bfd-instance [disable]

Syntax Description

| | |
|--------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| pim | PIM interface configuration commands |
| bfd-instance | Configures BFD on interface |
| disable | (Optional) Disable BFD on interface |

Command Mode

- /exec/configure/if-igp

ip pim bfd

[no] ip pim bfd

Syntax Description

| | |
|-----|--|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| pim | PIM global configuration commands |
| bfd | Enable / Disable BFD for all PIM interfaces in the VRF |

Command Mode

- /exec/configure /exec/configure/vrf

ip pim bidir-rp-limit

ip pim bidir-rp-limit

[no] ip pim bidir-rp-limit <limit>

Syntax Description

| | |
|----------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| pim | PIM global configuration commands |
| bidir-rp-limit | Configures maximum Bidir RPs for IPv4 PIM in this VRF |
| <i>limit</i> | Set limit for Bidir RPs permitted in IPv4 PIM |

Command Mode

- /exec/configure /exec/configure/vrf

ip pim border-router

[no] ip pim border-router

Syntax Description

| | |
|---------------|--|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| pim | PIM interface configuration commands |
| border-router | Configures the interface to be a boundary of a PIM-SM domain |

Command Mode

- /exec/configure/if-igp

ip pim border

[no] ip pim border

Syntax Description

| | |
|--------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| pim | PIM interface configuration commands |
| border | Configures interface to be a boundary of a PIM domain |

Command Mode

- /exec/configure/if-igp

ip pim bsr-candidate

```
{ { ip pim [ bsr ] bsr-candidate <interface> [ hash-len <hash-len> ] [ priority <priority> ] [ interval <interval> ] } | { no ip pim [ bsr ] bsr-candidate [ <interface> ] [ hash-len <hash-len> ] [ priority <priority> ] [ interval <interval> ] } }
```

Syntax Description

| | |
|------------------|---|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| pim | PIM global configuration commands |
| bsr | (Optional) Bootstrap protocol RP-distribution configuration |
| bsr-candidate | Configure router as a Bootstrap Router candidate |
| <i>interface</i> | Use IP address of interface for Bootstrap messages |
| hash-len | (Optional) Hash mask length used in Bootstrap messages |
| <i>hash-len</i> | (Optional) Hash mask length value |
| priority | (Optional) BSR priority used in Bootstrap messages |
| <i>priority</i> | (Optional) BSR priority value |
| interval | (Optional) Bootstrap message transmission interval |
| <i>interval</i> | (Optional) Interval in seconds |

Command Mode

- /exec/configure /exec/configure/vrf

ip pim bsr bsr-policy

```
{ ip pim bsr bsr-policy { <route-map-name> | <rtr_pol_name> } | no ip pim bsr bsr-policy [ <route-map-name> | <rtr_pol_name> ] }
```

Syntax Description

| | |
|-----------------------|--|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| pim | PIM global configuration commands |
| bsr | Bootstrap protocol RP-distribution configuration |
| bsr-policy | Specify policy for filtering BSR messages |
| <i>route-map-name</i> | Route-map name |
| <i>rtr_pol_name</i> | An existing routing-rules policy |

Command Mode

- /exec/configure /exec/configure/vrf

ip pim bsr listen

```
{ ip pim bsr { listen | forward } + } | { no ip pim bsr [ { listen | forward } + ] }
```

Syntax Description

| | |
|---------|--|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| pim | PIM global configuration commands |
| bsr | Bootstrap protocol RP-distribution configuration |
| listen | Listen to Bootstrap/Candidate-RP messages |
| forward | Forward Bootstrap/Candidate-RP messages |

Command Mode

- /exec/configure /exec/configure/vrf

ip pim bsr rp-candidate-policy

{ ip pim bsr rp-candidate-policy { <route-map-name> | <rtr_pol_name> } | no ip pim bsr rp-candidate-policy [<route-map-name> | <rtr_pol_name>] }

Syntax Description

| | |
|-----------------------|--|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| pim | PIM global configuration commands |
| bsr | Bootstrap protocol RP-distribution configuration |
| rp-candidate-policy | Specify policy for filtering RP candidate messages |
| <i>route-map-name</i> | Route-map name |
| <i>rtr_pol_name</i> | An existing routing-rules policy |

Command Mode

- /exec/configure /exec/configure/vrf

ip pim dr-delay

{ { ip pim dr-delay <delay> } | { no ip pim dr-delay [<delay>] } }

Syntax Description

| | |
|--------------|---|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| pim | PIM interface configuration commands |
| dr-delay | Configures delay for PIM DR election on interface |
| <i>delay</i> | Delay value |

Command Mode

- /exec/configure/if-igp

ip pim dr-priority

ip pim dr-priority

{ { ip pim dr-priority <priority> } | { no ip pim dr-priority [<priority>] } }

Syntax Description

| | |
|-----------------|--|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| pim | PIM interface configuration commands |
| dr-priority | Configures priority for PIM DR election on interface |
| <i>priority</i> | Priority value |

Command Mode

- /exec/configure/if-igp

ip pim evpn-border-leaf

[no] ip pim evpn-border-leaf

Syntax Description

| | |
|------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| pim | PIM global configuration commands |
| evpn-border-leaf | Configure this node as a border leaf |

Command Mode

- /exec/configure

ip pim extranet

ip pim extranet

[no] ip pim extranet

Syntax Description

| | |
|----------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| pim | PIM global configuration commands |
| extranet | Support for Extranet RPF lookup |

Command Mode

- /exec/configure

ip pim flush-routes

[no] ip pim flush-routes

Syntax Description

| | |
|--------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| pim | PIM global configuration commands |
| flush-routes | Remove routes when restarting PIM |

Command Mode

- /exec/configure /exec/configure/vrf

ip pim group-list

ip pim group-list

[no] ip pim { use-shared-tree-only | spt-threshold infinity } group-list { <route-map-name> | prefix-list <prefix-list-name> }

Syntax Description

| | |
|-------------------------|--|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| pim | PIM global configuration commands |
| use-shared-tree-only | Use (*,G) only state, no source state is created |
| spt-threshold | Source-tree switching threshold |
| infinity | Never switch to source-tree |
| group-list | Specify group ranges through policy |
| <i>route-map-name</i> | Route-map name |
| <i>prefix-list</i> | Prefix List policy |
| <i>prefix-list-name</i> | Name of prefix-list |

Command Mode

- /exec/configure /exec/configure/vrf

ip pim hello-authentication ah-md5

{ ip pim hello-authentication ah-md5 <auth-key> | no ip pim hello-authentication ah-md5 [<auth-key>] }

Syntax Description

| | |
|----------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| pim | PIM interface configuration commands |
| hello-authentication | Add AH header option to Hellos |
| ah-md5 | Use MD5 HMAC |
| <i>auth-key</i> | MD5 authentication key |

Command Mode

- /exec/configure/if-igp

ip pim hello-authentication keychain

ip pim hello-authentication keychain

{ ip pim hello-authentication keychain <name> | no ip pim hello-authentication keychain [<name>] }

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 |
| keychain | Use keychain |
| <i>name</i> | Keychain name |

Command Mode

- /exec/configure/if-igp

ip pim hello-interval

{ { ip pim hello-interval <interval> } | { no ip pim hello-interval [<interval>] } }

Syntax Description

| | |
|-----------------|---|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| pim | PIM interface configuration commands |
| hello-interval | Configures the Hello interval for interface |
| <i>interval</i> | Interval in milliseconds |

Command Mode

- /exec/configure/if-igp

ip pim isolate

ip pim isolate

[no] ip pim isolate

Syntax Description

| | |
|---------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| pim | PIM global configuration commands |
| isolate | Isolate this router from PIM perspective |

Command Mode

- /exec/configure

ip pim jp-policy

{ ip pim jp-policy { <route-map-name> | prefix-list <prefix-list-name> } [in | out] | no ip pim jp-policy { <route-map-name> | prefix-list <prefix-list-name> } [in | out] }

Syntax Description

| | |
|-------------------------|--|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| pim | PIM interface configuration commands |
| jp-policy | Specify policy for receiving Join-Prune messages |
| <i>route-map-name</i> | Route-map name |
| prefix-list | Prefix List policy for static RP |
| <i>prefix-list-name</i> | Name of prefix-list |
| in | (Optional) Inbound |
| out | (Optional) Outbound |

Command Mode

- /exec/configure/if-igp

ip pim log-neighbor-changes

[no] ip pim log-neighbor-changes

Syntax Description

| | |
|----------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| pim | PIM global configuration commands |
| log-neighbor-changes | Log up/down PIM neighbor transitions |

Command Mode

- /exec/configure /exec/configure/vrf

ip pim mtu

[no] ip pim mtu <size>

Syntax Description

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

Command Mode

- /exec/configure

ip pim neighbor-policy prefix-list

{ { ip pim neighbor-policy { <route-map-name> | prefix-list <prefix-list-name> } } | { no ip pim neighbor-policy [<route-map-name> | prefix-list <prefix-list-name>] } }

Syntax Description

| | |
|-------------------------|--|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| pim | PIM interface configuration commands |
| neighbor-policy | Configures a neighbor policy for filtering adjacencies |
| <i>route-map-name</i> | Route-map name |
| prefix-list | Prefix List policy for neighbor |
| <i>prefix-list-name</i> | Name of prefix-list |

Command Mode

- /exec/configure/if-igp

ip pim passive

{ ip pim passive | no ip pim passive }

Syntax Description

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

Command Mode

- /exec/configure/if-igp

ip pim pfm-sd announcement gap

```
{ { ip pim pfm-sd announcement gap { <interval> } } | { no ip pim pfm-sd announcement gap [ <interval> ] }
```

Syntax Description

| | |
|-----------------|---|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| pim | PIM global configuration commands |
| pfm-sd | PIM Flooding Mechanism and Source Discovery |
| announcement | Pfm-sd message announcement |
| gap | Minimum gap between each PFM-SD message |
| <i>interval</i> | gap interval in milliseconds |

Command Mode

- /exec/configure /exec/configure/vrf

ip pim pfm-sd announcement interval

{ { ip pim pfm-sd announcement interval { <interval> } } | { no ip pim pfm-sd announcement interval [<interval>] } }

Syntax Description

| | |
|-----------------|---|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| pim | PIM global configuration commands |
| pfm-sd | PIM Flooding Mechanism and Source Discovery |
| announcement | Pfm-sd message announcement |
| interval | Announcement period for Group Source Holdtime TLV |
| <i>interval</i> | interval in seconds |

Command Mode

- /exec/configure /exec/configure/vrf

ip pim pfm-sd announcement rate

ip pim pfm-sd announcement rate

{ { ip pim pfm-sd announcement rate { <rate> } } | { no ip pim pfm-sd announcement rate [<rate>] } }

Syntax Description

| | |
|--------------|--|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| pim | PIM global configuration commands |
| pfm-sd | PIM Flooding Mechanism and Source Discovery |
| announcement | Pfm-sd message announcement |
| rate | Maximum number of PFM-SD messages a router originated per minute |
| <i>rate</i> | rate |

Command Mode

- /exec/configure /exec/configure/vrf

ip pim pfm-sd boundary

```
{ { ip pim pfm-sd { boundary <direction> } } | { no ip pim pfm-sd { boundary [ <direction> ] } } }
```

Syntax Description

| | |
|------------------|---|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| pim | PIM interface configuration commands |
| pfm-sd | PIM Flooding Mechanism and Source Discovery |
| boundary | pfm-sd boundary to restrict pfm-sd messages |
| <i>direction</i> | pfm-sd boundary direction |

Command Mode

- /exec/configure/if-igp

ip pim pfm-sd gsh holdtime

ip pim pfm-sd gsh holdtime

{ { ip pim pfm-sd gsh holdtime { <holdtime> } } | { no ip pim pfm-sd gsh holdtime [<holdtime>] } }

Syntax Description

| | |
|-----------------|---|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| pim | PIM global configuration commands |
| pfm-sd | PIM Flooding Mechanism and Source Discovery |
| gsh | Group source holdtime TLV |
| holdtime | Holdtime for Group Source Holdtime TLV |
| <i>holdtime</i> | holdtime in seconds |

Command Mode

- /exec/configure /exec/configure/vrf

ip pim pfm-sd originator-id

{ { ip pim pfm-sd originator-id { <interface> } } | { no ip pim pfm-sd originator-id [<interface>] } }

Syntax Description

| | |
|------------------|--|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| pim | PIM global configuration commands |
| pfm-sd | PIM Flooding Mechanism and Source Discovery |
| originator-id | Configure source address for pfm-sd messages |
| <i>interface</i> | Loopback interface |

Command Mode

- /exec/configure /exec/configure/vrf

ip pim pfm-sd range

```
{ [ no ] ip pim pfm-sd range { <prefix> | { route-map <route-map-name> } | { prefix-list <prefix-list-name> } } }
```

Syntax Description

| | |
|-------------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| pim | PIM global configuration commands |
| pfm-sd | PIM Flooding Mechanism and Source Discovery |
| range | Configure group ranges for pfm-sd |
| <i>prefix</i> | List of group range prefixes |
| route-map | Group range route-map policy for pfm-sd |
| <i>route-map-name</i> | Route-map name |
| prefix-list | Group range prefix-list policy for pfm-sd |
| <i>prefix-list-name</i> | Name of prefix-list |

Command Mode

- /exec/configure /exec/configure/vrf

ip pim pre-build-spt

```
{ { { ip pim pre-build-spt [ force ] } [ route-map <route-map-name> | prefix-list <prefix-list-name> ] } | { no ip pim pre-build-spt } }
```

Syntax Description

| | |
|-------------------------|---|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| pim | PIM global configuration commands |
| pre-build-spt | Pre construct PIM trees for all known (S,G)s |
| force | (Optional) Enable pre-build-spt irrespective of (*,G) state |
| route-map | (Optional) Route Map policy for pre-build-spt |
| <i>route-map-name</i> | (Optional) Route-map name |
| prefix-list | (Optional) Prefix List policy for pre-build-spt |
| <i>prefix-list-name</i> | (Optional) Name of prefix-list |

Command Mode

- /exec/configure /exec/configure/vrf

ip pim register-policy

ip pim register-policy

{ ip pim register-policy { <route-map-name> | prefix-list <prefix-list-name> } | no ip pim register-policy [<route-map-name> | prefix-list <prefix-list-name>] }

Syntax Description

| | |
|-------------------------|--|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| pim | PIM global configuration commands |
| register-policy | Specify policy for receiving Register messages |
| <i>route-map-name</i> | Route-map name |
| <i>prefix-list</i> | Prefix List policy for Registers |
| <i>prefix-list-name</i> | Name of prefix-list |

Command Mode

- /exec/configure /exec/configure/vrf

ip pim register-rate-limit

{ { ip pim register-rate-limit <rate> } | { no ip pim register-rate-limit [<rate>] } }

Syntax Description

| | |
|---------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| pim | PIM global configuration commands |
| register-rate-limit | Rate limit for PIM data registers |
| <i>rate</i> | Packets per second |

Command Mode

- /exec/configure /exec/configure/vrf

ip pim register-source

ip pim register-source

{ { ip pim register-source { <src-interface> } } | { no ip pim register-source [<src-interface>] } }

Syntax Description

| | |
|----------------------|--|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| pim | PIM global configuration commands |
| register-source | Configure source address for Register messages |
| <i>src-interface</i> | Use IP address of this interface for Register messages |

Command Mode

- /exec/configure /exec/configure/vrf

ip pim register-until-stop

[no] ip pim register-until-stop

Syntax Description

| | |
|---------------------|--|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| pim | PIM global configuration commands |
| register-until-stop | Send Data Registers till Register Stop is received |

Command Mode

- /exec/configure

ip pim rp-address

ip pim rp-address

```
{ { ip pim rp-address <rp-address> [ group-list <prefix> | route-map <route-map-name> | prefix-list <prefix-list-name> ] [ bidir ] [ override ] } | { no ip pim rp-address <rp-address> [ group-list <prefix> | route-map <route-map-name> | prefix-list <prefix-list-name> ] [ bidir ] [ override ] } }
```

Syntax Description

| | |
|-------------------------|--|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| pim | PIM global configuration commands |
| rp-address | Configure static RP for group range |
| <i>rp-address</i> | IP address of router which is RP for group range |
| group-list | (Optional) Group range for static RP |
| <i>prefix</i> | (Optional) Group range prefix |
| route-map | (Optional) Route Map policy for static RP |
| <i>route-map-name</i> | (Optional) Route-map name |
| prefix-list | (Optional) Prefix List policy for static RP |
| <i>prefix-list-name</i> | (Optional) Name of prefix-list |
| bidir | (Optional) Group range is treated in PIM bidirectional mode |
| override | (Optional) RP address will override the dynamically learnt RPs |

Command Mode

- /exec/configure /exec/configure/vrf

ip pim rp-candidate group-list route-map prefix-list

```
{ { ip pim [ bsr ] rp-candidate <interface> { group-list <prefix> | route-map <route-map-name> | prefix-list <prefix-list-name> } [ priority <priority> ] [ interval <interval> ] [ bidir ] } | { no ip pim [ bsr ] rp-candidate [ <interface> ] [ group-list <prefix> ] [ route-map <route-map-name> ] [ prefix-list <prefix-list-name> ] [ priority <priority> ] [ interval <interval> ] [ bidir ] } }
```

Syntax Description

| | |
|-------------------------|---|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| pim | PIM global configuration commands |
| bsr | (Optional) Bootstrap protocol RP-distribution configuration |
| rp-candidate | Configure router as a Rendezvous Point (RP) candidate |
| <i>interface</i> | Use IP address of interface for Candidate-RP messages |
| group-list | Group range list |
| <i>prefix</i> | Prefix of group range |
| route-map | Group range policy for Candidate RP |
| <i>route-map-name</i> | Route-map name |
| prefix-list | Prefix List policy for Candidate RP |
| <i>prefix-list-name</i> | Name of prefix-list |
| priority | (Optional) RP priority used in Candidate-RP messages |
| <i>priority</i> | (Optional) RP priority value |
| interval | (Optional) Bootstrap message transmission interval |
| <i>interval</i> | (Optional) Interval in seconds |
| bidir | (Optional) Group range advertised in PIM bidirectional mode |

Command Mode

- /exec/configure /exec/configure/vrf

```
ip pim sg-expiry-timer infinity
```

ip pim sg-expiry-timer infinity

{ { ip pim [sparse] sg-expiry-timer { <expiry-time> | infinity } [sg-list <route-map-name> | prefix-list <prefix-list-name>] } | { no ip pim [sparse] sg-expiry-timer { <expiry-time> | infinity } [sg-list <route-map-name> | prefix-list <prefix-list-name>] } }

Syntax Description

| | |
|-------------------------|---|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| pim | PIM global configuration commands |
| sparse | (Optional) PIM ASM |
| sg-expiry-timer | Adjust expiry time for PIM ASM (S,G) routes |
| <i>expiry-time</i> | Expiry timer interval in seconds |
| infinity | Never expire (S,G) route due to data inactivity |
| sg-list | (Optional) Specifies route-map for (S,G)s to apply the expiry timer |
| <i>route-map-name</i> | (Optional) Route-map name |
| prefix-list | (Optional) Specifies prefix-list for (S,G)s to apply the expiry timer |
| <i>prefix-list-name</i> | (Optional) Name of prefix-list |

Command Mode

- /exec/configure /exec/configure/vrf

ip pim sparse-mode

ip pim sparse-mode | no ip pim [sparse-mode]

Syntax Description

| | |
|-------------|---|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| pim | PIM interface configuration commands |
| sparse-mode | Configures sparse-mode PIM on interface |

Command Mode

- /exec/configure/if-igp

ip pim spt-switch-graceful

[no] ip pim spt-switch-graceful

Syntax Description

| | |
|---------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| pim | PIM global configuration commands |
| spt-switch-graceful | Graceful switch-over to SPT |

Command Mode

- /exec/configure /exec/configure/vrf

ip pim ssm

```
{ ip pim ssm { { range { <group> + | none } } | { route-map <route-map-name> } | { prefix-list <prefix-list-name> } } | no ip pim ssm { { range { <group> + | none } } | { route-map <route-map-name> } | { prefix-list <prefix-list-name> } } }
```

Syntax Description

| | |
|-------------------------|--|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| pim | PIM global configuration commands |
| ssm | Source Specific Multicast (SSM) groups |
| range | Configure explicit group ranges |
| <i>group</i> | List of group range prefixes |
| route-map | Group range route-map policy for SSM range |
| <i>route-map-name</i> | Route-map name |
| prefix-list | Group range prefix-list policy for SSM range |
| <i>prefix-list-name</i> | Name of prefix-list |
| none | Remove all SSM group ranges |

Command Mode

- /exec/configure /exec/configure/vrf

ip pim state-limit

ip pim state-limit

{ { ip pim state-limit <max-states> [reserved <route-map-name> <max-reserved>] } | { no ip pim state-limit [<max-states> [reserved <route-map-name> <max-reserved>]] } }

Syntax Description

| | |
|-----------------------|---|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| pim | PIM global configuration commands |
| state-limit | Configures State limit |
| <i>max-states</i> | Maximum (*,G)/(S,G) entries allowed in this VRF |
| reserved | (Optional) Configures Reserved limit |
| <i>route-map-name</i> | (Optional) Route-map name |
| <i>max-reserved</i> | (Optional) Maximum reserved (*,G)/(S,G) entries allowed in this VRF |

Command Mode

- /exec/configure /exec/configure/vrf

ip pim strict-rfc-compliant

{ { ip pim strict-rfc-compliant } | { no ip pim strict-rfc-compliant } }

Syntax Description

| | |
|----------------------|---|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| pim | PIM interface configuration commands |
| strict-rfc-compliant | Dont process joins from unknown neighbors on this interface |

Command Mode

- /exec/configure/if-igp

ip pim strict-rfc-compliant

ip pim strict-rfc-compliant

{ { ip pim strict-rfc-compliant } | { no ip pim strict-rfc-compliant } }

Syntax Description

| | |
|----------------------|--|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| pim | PIM global configuration commands |
| strict-rfc-compliant | Don't process joins from unknown neighbors |

Command Mode

- /exec/configure /exec/configure/vrf

ip ping source-interface

[no] ip ping source-interface <ifnum> [vrf { <vrf-name> | <vrf-known-name> }]

Syntax Description

| | |
|-----------------------|--|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| ping | Configure ping client |
| source-interface | Configure source interface feature for ping client |
| <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 route-map

ip policy route-map

ip policy route-map <route-map-name> | no ip policy route-map [<route-map-name> | <route-map-name>]

Syntax Description

| | |
|-----------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| policy | Configure PBR feature |
| route-map | Route-map for PBR |
| <i>route-map-name</i> | Route-map name |
| <i>route-map-name</i> | (Optional) Route-map name |
| <i>route-map-name</i> | (Optional) Known route-map name |

Command Mode

- /exec/configure/if-igp /exec/configure/if-vni/

ip port-unreachable

[no] ip port-unreachable

Syntax Description

| | |
|------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| port-unreachable | Enable sending ICMP port-unreachable |

Command Mode

- /exec/configure/if-igp /exec/configure/if-mgmt-config

ip port access-group

ip port access-group

[no] ip port access-group <name> <inout>

Syntax Description

| | |
|--------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| port | Port policy |
| access-group | Specify access control for packets |
| <i>name</i> | List name |
| <i>inout</i> | Traffic direction |

Command Mode

- /exec/configure/system/acl

ip port access-group

[no] ip port access-group <acl-ip-name> <inout>

Syntax Description

| | |
|--------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| port | Port policy |
| access-group | Specify access control for packets |
| <i>acl-ip-name</i> | List name |
| <i>inout</i> | Traffic direction |

Command Mode

- /exec/configure/if-set-acl-l2

ip pps threshold unicast-forward

ip pps threshold unicast-forward

ip pps threshold unicast-forward <size> [<logInterval>] | no ip pps threshold unicast-forward

Syntax Description

| | |
|--------------------|---|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| pps | Packets per second configuration |
| threshold | Threshold value for PPS |
| unicast-forward | Counter for unicast forward packets |
| <i>size</i> | PPS threshold value (1-30000) |
| <i>logInterval</i> | (Optional) Syslog interval in seconds (default=1) |

Command Mode

- /exec/configure

ip prefix-list description

```
{ ip prefix-list <ipv4-pfl-name> description <line> } | { no ip prefix-list <ipv4-pfl-name> description }
```

Syntax Description

| | |
|----------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| prefix-list | Build a prefix list |
| <i>ipv4-pfl-name</i> | Name of prefix-list |
| <i>ipv4-pfl-name</i> | Known prefix-list name |
| description | Description of the IP prefix list |
| <i>line</i> | IP prefix-list description string |

Command Mode

- /exec/configure

ip prefix-list permit

```
{ ip prefix-list <ipv4-pfl-name> [ seq <seq> ] { permit | deny } <prefix> { [ eq <equal> ] | [ ge <greater> ] | [ le <lesser> ] } [ mask <mask> ] } | { no ip prefix-list { <ipv4-pfl-name> | <ipv4-pfl-name> } [ seq <seq> ] { permit | deny } <prefix> { [ eq <equal> ] | [ ge <greater> ] | [ le <lesser> ] } [ mask <mask> ] }
```

Syntax Description

| | |
|----------------------|--|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| prefix-list | Build a prefix list |
| <i>ipv4-pfl-name</i> | Name of prefix-list |
| <i>ipv4-pfl-name</i> | Name of prefix-list |
| <i>ipv4-pfl-name</i> | Known prefix-list name |
| seq | (Optional) Sequence number of an entry |
| <i>seq</i> | (Optional) Sequence number |
| permit | Specify routes to forward |
| deny | Specify routes to reject |
| <i>prefix</i> | IP prefix network/length, e.g., 35.0.0.0/8 |
| eq | (Optional) Exact prefix length to be matched |
| <i>equal</i> | (Optional) Exact prefix length |
| ge | (Optional) Minimum prefix length to be matched |
| <i>greater</i> | (Optional) Minimum prefix length |
| le | (Optional) Maximum prefix length to be matched |
| <i>lesser</i> | (Optional) Maximum prefix length |
| mask | (Optional) Explicit match mask |
| <i>mask</i> | (Optional) Mask to use with the prefix |

Command Mode

- /exec/configure

ip proxy-arp

{ ip proxy-arp | no ip proxy-arp }

Syntax Description

| | |
|-----------|--------------------------------------|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| proxy-arp | Configure proxy ARP |

Command Mode

- /exec/configure/if-igp /exec/configure/if-vlan-common

ip radius source-interface

ip radius source-interface

[no] ip radius source-interface | ip radius source-interface <interface>

Syntax Description

| | |
|------------------|--|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| radius | Radius server |
| source-interface | Source interface to be used to reach radius server |
| <i>interface</i> | Interface Description |

Command Mode

- /exec/configure

ip redirect syslog

ip redirect syslog [<logInterval>] | no ip redirect syslog

Syntax Description

| | |
|--------------------|--|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| redirect | IP redirect feature |
| syslog | syslog of IP redirect |
| <i>logInterval</i> | (Optional) Syslog interval in seconds (default=60) |

Command Mode

- /exec/configure

ip redirects

ip redirects | no ip redirects

Syntax Description

| | |
|-----------|--------------------------------------|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| redirects | Send ICMP Redirect messages |

Command Mode

- /exec/configure/if-igp /exec/configure/if-mgmt-config

ip rip authentication key-chain

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

Syntax Description

| | |
|-----------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| rip | RIP configuration commands |
| authentication | Authentication control |
| key-chain | Set authentication key-chain |
| <i>keychain</i> | Name of key-chain |

Command Mode

- /exec/configure/if-igp

ip rip authentication mode text

{ ip rip authentication mode { text | md5 } | no ip rip authentication mode [{ text | md5 }] }

Syntax Description

| | |
|----------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| rip | RIP configuration commands |
| authentication | RIP authentication control |
| mode | Set authentication mode |
| text | Clear text authentication |
| md5 | Keyed message digest |

Command Mode

- /exec/configure/if-igp

ip rip poison-reverse

[no] { ipv6 | ip } rip poison-reverse

Syntax Description

| | |
|----------------|---|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| ip | Configure IP features |
| rip | RIP configuration commands |
| poison-reverse | RIP poison reverse (default split-horizon) |

Command Mode

- /exec/configure/if-igp

ip rip route-filter route in

[no] { ipv6 | ip } rip route-filter { route-map <map> | prefix-list <list> } { in | out }

Syntax Description

| | |
|--------------|---|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| ip | Configure IP features |
| rip | RIP configuration commands |
| route-filter | RIP route filtering |
| route-map | route-map policy to constrain route filtering |
| prefix-list | prefix-list policy to constrain route filtering |
| <i>map</i> | Route-map name |
| <i>list</i> | prefix-list name |
| in | inbound |
| out | outbound |

Command Mode

- /exec/configure/if-igp

ip route

[no] ip route { <ip-addr> <ip-mask> | <ip-prefix> } { <interface> | { { <pin-interface> <next-hop> } | { <next-hop> | <nh-prefix> } | { <vlan-interface> } } [vrf { <vrf-name> | <vrf-known-name> }] } [track <object-num>] [name <rt-name>] [tag <tag-value> | <pref>] +

Syntax Description

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

Command Mode

- /exec/configure /exec/configure/config-mgmt /exec/configure/vrf

ip route static bfd

ip route static bfd

[no] ip route static bfd <pin-interface> <next-hop>

Syntax Description

| | |
|----------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| route | Route information |
| static | Static route based configuration |
| bfd | Enable bfd detection on static route |
| <i>pin-interface</i> | Interface on which bfd has to be enabled |
| <i>next-hop</i> | IP next-hop address in format i.i.i.i |

Command Mode

- /exec/configure /exec/configure/config-mgmt /exec/configure/vrf

ip router eigrp

[no] { ip | ipv6 } router eigrp <eigrp-ptag>

Syntax Description

| | |
|-------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| ipv6 | Configure IPv6 features |
| router | Enable a routing process |
| eigrp | Configure an EIGRP routing process on interface |
| <i>eigrp-ptag</i> | Process tag |

Command Mode

- /exec/configure/if-igp

ip router isis

ip router isis

[no] ip router isis <tag>

Syntax Description

| | |
|------------|--|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| router | Enable a routing process |
| isis | Intermediate System to Intermediate System (IS-IS) |
| <i>tag</i> | Process tag |

Command Mode

- /exec/configure/if-igp

ip router ospf area

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

Syntax Description

| | |
|--------------------|--|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| router | Enable a routing process |
| ospf | OSPF configuration commands |
| <i>tag</i> | Process tag |
| area | Area associated with interface |
| <i>area-id-ip</i> | OSPF area ID in IP address format |
| <i>area-id-int</i> | OSPF area ID as a decimal format |
| secondaries | (Optional) Do not include secondary IP addresses |
| none | (Optional) Do not include secondary IP addresses |

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel
/exec/configure/if-mgmt-config

ip router ospf multi-area

ip router ospf multi-area

[no] ip router ospf [<tag>] multi-area <area-id-ip>

Syntax Description

| | |
|-------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| router | Enable a routing process |
| ospf | OSPF configuration commands |
| <i>tag</i> | (Optional) Process tag |
| multi-area | Multi area associated with interface |
| <i>area-id-ip</i> | Area Id as an integer or ip address |

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel
/exec/configure/if-mgmt-config

ip router rip

[no] { ipv6 | ip } router rip <tag>

Syntax Description

| | |
|------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| ipv6 | Configure IPv6 features |
| router | Enable a routing process |
| rip | Routing Information Protocol (RIP) |
| <i>tag</i> | Process tag |

Command Mode

- /exec/configure/if-igp

ip routing multicast holddown

[no] { ip | ipv4 } routing multicast holddown [<route-holddown-sec> | [disable-init-phase]]

Syntax Description

| | |
|---------------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| ipv4 | Configure IP features |
| routing | Configure routing information |
| multicast | Configure multicast |
| holddown | Initial holddown period |
| <i>route-holddown-sec</i> | (Optional) Delay in seconds [70..3600], 0 to disable holddown |
| disable-init-phase | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |

Command Mode

- /exec/configure

ip routing multicast mfdm-buffer-route-count

{ ip | ipv4 } routing multicast mfdm-buffer-route-count { <size> } | no { ip | ipv4 } routing multicast mfdm-buffer-route-count [<size>]

Syntax Description

| | |
|-------------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| ipv4 | Configure IP features |
| routing | Configure routing information |
| multicast | Configure multicast |
| mfdm-buffer-route-count | mfdm buffer route size |
| <i>size</i> | size in numbers |

Command Mode

- /exec/configure

ip routing multicast software-replicate

ip routing multicast software-replicate

[no] ip routing multicast software-replicate [iif] [fabric]

Syntax Description

| | |
|--------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| routing | Configure routing information |
| multicast | Configure multicast |
| software-replicate | Enable software replication of PIM ASM leak packets |
| iif | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| fabric | (Optional) Enable software replication to fabric |

Command Mode

- /exec/configure

ip secondary

```
ip { <ipaddress> | <ipprefix> } secondary | no ip { <ipaddress> | <ipprefix> } secondary
```

Syntax Description

| | |
|------------------|---|
| no | Negate a command or set its defaults |
| ip | Enable HSRP IPv4 and set the virtual IP address |
| <i>ipaddress</i> | Virtual IP address |
| <i>ipprefix</i> | Virtual IP address and mask length |
| secondary | Make this IP address a secondary virtual IP address |

Command Mode

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

ip service-reflect destination to mask-len source

ip service-reflect destination to mask-len source

[no] ip service-reflect destination <in-grp> to <out-grp> mask-len <g-mlen> source <in-out-src> [to <out-src> mask-len <s-mlen>] [to-udp <udp-to-src-port> <udp-to-dest-port>] [to-udp-src-port <udp-to-src-port>] [to-udp-dest-port <udp-to-dest-port>] [static-oif <out-if>]

Syntax Description

| | |
|-------------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| service-reflect | Service Reflect config command |
| destination | Translation information |
| <i>in-grp</i> | Incoming Group/Source Address |
| to | |
| <i>out-grp</i> | Outgoing Group/Destination Address |
| mask-len | |
| <i>g-mlen</i> | Group Mask Length |
| source | |
| <i>in-out-src</i> | Source Address |
| to | (Optional) |
| <i>out-src</i> | (Optional) Outgoing Source Address |
| mask-len | (Optional) |
| <i>s-mlen</i> | (Optional) Source Mask Length |
| to-udp | (Optional) |
| to-udp-src-port | (Optional) to udp source port |
| to-udp-dest-port | (Optional) to udp destination port |
| <i>udp-to-src-port</i> | (Optional) UDP Src Port |
| <i>udp-to-dest-port</i> | (Optional) UDP Dest Port |
| static-oif | (Optional) static oif |
| <i>out-if</i> | (Optional) out interface |

Command Mode

- /exec/configure /exec/configure/vrf

ip service-reflect mode ingress

[no] ip service-reflect mode { ingress | egress } <prefix>

Syntax Description

| | |
|-----------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| service-reflect | Service Reflect config command |
| mode | Select NAT rewrite mode |
| ingress | Ingress NAT |
| egress | Egress NAT |
| <i>prefix</i> | List of group range prefixes |

Command Mode

- /exec/configure /exec/configure/vrf

ip service-reflect mode regular

[no] ip service-reflect mode { regular | fast-pass [no-rewrite] }

Syntax Description

| | |
|-----------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| service-reflect | Service Reflect config command |
| mode | Select one-pass or three-pass mode |
| regular | Regular mode |
| fast-pass | Fast Pass Mode |
| no-rewrite | (Optional) No Mac Rewrite |

Command Mode

- /exec/configure

ip service-reflect source-interface

{ ip service-reflect source-interface <interface> } | { no ip service-reflect source-interface [<interface>] }

Syntax Description

| | |
|------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| service-reflect | Service Reflect config command |
| source-interface | Source Interface |
| <i>interface</i> | Loopback interface |

Command Mode

- /exec/configure /exec/configure/vrf

ip sla

[no] ip sla <index>

Syntax Description

| | |
|--------------|-------------------------------|
| no | |
| ip | |
| sla | Service Level Agreement (SLA) |
| <i>index</i> | Entry Number |

Command Mode

- /exec/configure

ip sla

ip sla <index>

Syntax Description

| | |
|--------------|-------------------------------|
| ip | |
| sla | Service Level Agreement (SLA) |
| <i>index</i> | Entry Number |

Command Mode

- /exec/configure

ip sla group schedule

ip sla group schedule

```
{ no ip sla group schedule <group-id> | ip sla group schedule <group-id> { <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> } ] } + } }
```

Syntax Description

| | |
|--------------------------------|--|
| <i>operation-ids</i> | schedule-period |
| <i>frequency</i> | (Optional) <frequency-seconds> |
| <i>start-time</i> | (Optional) <hhmm> |
| <i>October</i> | (Optional) November |
| <i>life</i> | (Optional) forever |
| no | |
| ip | |
| sla | Service Level Agreement (SLA) |
| group | Group Configuration or Group Scheduling |
| schedule | Group scheduling |
| <i>group-id</i> | Group schedule entry number |
| schedule-period | Group schedule period range |
| <i>schedule-period-seconds</i> | seconds |
| range | (Optional) Group operation frequency-range for random scheduling |
| <i>frequency-seconds</i> | (Optional) Specify frequency in seconds |
| <i>random-frequency-range</i> | (Optional) Specify frequency range in seconds |
| ageout | (Optional) How long to keep this Entry when inactive |
| <i>ageout-seconds</i> | (Optional) Ageout 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:ss) |

| | |
|------------|--------------------------|
| January | (Optional) Month of year |
| February | (Optional) Month of year |
| March | (Optional) Month of year |
| April | (Optional) Month of year |
| May | (Optional) Month of year |
| June | (Optional) Month of year |
| July | (Optional) Month of year |
| August | (Optional) Month of year |
| September | (Optional) Month of year |
| October | (Optional) Month of year |
| November | (Optional) Month of year |
| December | (Optional) Month of year |
| <i>day</i> | (Optional) Day of month |
| now | (Optional) Start now |
| pending | (Optional) Start pending |

Command Mode

- /exec/configure

ip sla group schedule add

ip sla group schedule <add-group-id> add <operation-ids>

Syntax Description

| | |
|----------------------|---|
| ip | |
| sla | Service Level Agreement (SLA) |
| group | Group Configuration or Group Scheduling |
| schedule | Group scheduling |
| <i>add-group-id</i> | Group schedule entry number |
| add | Add probes to existing group |
| <i>operation-ids</i> | Multiple probe ID's to be group scheduled |

Command Mode

- /exec/configure

ip sla group schedule delete

ip sla group schedule <del-group-id> delete <operation-ids>

Syntax Description

| | |
|----------------------|---|
| ip | |
| sla | Service Level Agreement (SLA) |
| group | Group Configuration or Group Scheduling |
| schedule | Group scheduling |
| <i>del-group-id</i> | Group schedule entry number |
| delete | Delete probes from existing group |
| <i>operation-ids</i> | Multiple probe ID's to be group scheduled |

Command Mode

- /exec/configure

ip sla group schedule reschedule

ip sla group schedule <reschedule-group-id> reschedule

Syntax Description

| | |
|----------------------------|---|
| <i>reschedule</i> | |
| ip | |
| sla | Service Level Agreement (SLA) |
| group | Group Configuration or Group Scheduling |
| schedule | Group scheduling |
| <i>reschedule-group-id</i> | Group schedule entry number |

Command Mode

- /exec/configure

ip sla logging traps

[no] ip sla logging traps

Syntax Description

| | |
|---------|-------------------------------|
| no | (Optional) |
| ip | |
| sla | Service Level Agreement (SLA) |
| logging | Enable Syslog |
| traps | Enable syslog traps |

Command Mode

- /exec/configure

```
ip sla reaction-configuration react
```

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

| | |
|--------------------------------|--------------------------------------|
| <i>action-type</i> | (Optional) <action> |
| <i>threshold-type</i> | (Optional) <neverImmed> |
| no | |
| 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) |
| <i>threshold-value</i> | (Optional) Threshold Value |
| <i>rising-value</i> | (Optional) Upper limit for Threshold |
| <i>falling-value</i> | (Optional) Lower limit for Threshold |
| <i>neverImmed</i> | (Optional) |
| <i>consecutive</i> | (Optional) |
| <i>xOfy</i> | (Optional) |
| <i>average</i> | (Optional) |
| <i>consecutive-occurrences</i> | (Optional) Number of occurrences |
| <i>x-value</i> | (Optional) X value |
| <i>y-value</i> | (Optional) Y value |
| <i>n-attempts</i> | (Optional) N Value |

Command Mode

- /exec/configure

ip sla reaction-trigger

[no] ip sla reaction-trigger <entry-num> <target-entry>

Syntax Description

| | |
|---------------------|-------------------------------|
| no | (Optional) |
| ip | |
| sla | Service Level Agreement (SLA) |
| reaction-trigger | IP SLAs Trigger Assignment |
| <i>entry-num</i> | Entry Number |
| <i>target-entry</i> | Target entry Number |

Command Mode

- /exec/configure

ip sla reset

ip sla reset

ip sla reset

Syntax Description

| | |
|-------|-------------------------------|
| ip | |
| sla | Service Level Agreement (SLA) |
| reset | IP SLAs Reset |

Command Mode

- /exec/configure

ip sla responder

[no] ip sla responder [{ tcp-connect [ipaddress <tcp-ip>] port <tcp-port> } | { udp-echo [ipaddress <udp-ip>] port <udp-port> }]

Syntax Description

| | |
|--------------------|--------------------------------------|
| <i>tcp-connect</i> | (Optional) ipaddress |
| no | (Optional) |
| ip | |
| sla | |
| responder | Enable IP SLAs Responder |
| ipaddress | (Optional) Permanent address |
| <i>tcp-ip</i> | (Optional) IP Address or IP HostName |
| 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 responder twamp

ip sla responder twamp

[no] ip sla responder twamp

Syntax Description

| | |
|-----------|--------------------------|
| no | (Optional) |
| ip | |
| sla | |
| responder | Enable IP SLAs Responder |
| twamp | Setup TWAMP responder |

Command Mode

- /exec/configure

ip sla restart

ip sla restart <index>

Syntax Description

| | |
|--------------|-------------------------------|
| ip | |
| sla | Service Level Agreement (SLA) |
| restart | Restart An Active Entry |
| <i>index</i> | Entry Number |

Command Mode

- /exec/configure

ip sla schedule

```
{ no ip sla schedule <index> | ip sla schedule <index> { [ life { <life-seconds> | forever } ] [ start-time { <hhmm> [ { January | February | March | April | May | June | July | August | September | October | November | December } <day> | <day> [ January | February | March | April | May | June | July | August | September | October | November | December ] ] | pending | now | { after <hhmm> } } ] [ ageout <ageout-seconds> ] [ recurring ] } + }
```

Syntax Description

| | |
|---------------------|--|
| <i>life</i> | (Optional) <life-seconds> |
| <i>start-time</i> | (Optional) <hhmm> |
| <i>after</i> | (Optional) <hhmm> |
| <i>no</i> | |
| <i>ip</i> | |
| <i>sla</i> | Service Level Agreement (SLA) |
| <i>schedule</i> | Entry Scheduling |
| <i>index</i> | Entry Number |
| <i>life-seconds</i> | (Optional) Life seconds (default 3600) |
| <i>forever</i> | (Optional) continue running forever |
| <i>hhmm</i> | (Optional) Start time (hh:mm:ss) |
| January | (Optional) Month of year |
| February | (Optional) Month of year |
| March | (Optional) Month of year |
| April | (Optional) Month of year |
| May | (Optional) Month of year |
| June | (Optional) Month of year |
| July | (Optional) Month of year |
| August | (Optional) Month of year |
| September | (Optional) Month of year |
| October | (Optional) Month of year |
| November | (Optional) Month of year |
| December | (Optional) Month of year |

| | |
|-----------------------|--|
| <i>day</i> | (Optional) Day of month |
| <i>now</i> | (Optional) Start now |
| <i>pending</i> | (Optional) Start pending |
| <i>ageout</i> | (Optional) How long to keep this Entry when inactive |
| <i>ageout-seconds</i> | (Optional) Ageout Seconds |
| <i>recurring</i> | (Optional) Probe to be scheduled automatically every day |

Command Mode

- /exec/configure

ip sla server twamp

[no] ip sla server twamp

Syntax Description

| | |
|--------|---------------------------------------|
| no | (Optional) |
| ip | |
| sla | |
| server | IPSLA IPPM server configuration |
| twamp | IPSLA IPPM TWAMP server configuration |

Command Mode

- /exec/configure

ip source-route

[no] ip source-route

Syntax Description

| | |
|--------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| source-route | IP source routing option |

Command Mode

- /exec/configure

ip source binding vlan interface

ip source binding vlan interface

[no] ip source binding <ipaddr1> <macaddr> vlan <vlanid> interface <interface1>

Syntax Description

| | |
|-------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| source | IP source |
| binding | Static binding |
| <i>ipaddr1</i> | IP address |
| <i>macaddr</i> | MAC address |
| vlan | VLAN |
| <i>vlanid</i> | VLAN id |
| interface | interface |
| <i>interface1</i> | interface |

Command Mode

- /exec/configure

ip split-horizon eigrp

[no] { ip | ipv6 } split-horizon eigrp <eigrp-ptag>

Syntax Description

| | |
|-------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| ipv6 | Configure IPv6 features |
| split-horizon | Configures IP-EIGRP split-horizon on interface |
| eigrp | EIGRP interface configuration commands |
| <i>eigrp-ptag</i> | Process tag |

Command Mode

- /exec/configure/if-igp

ip ssh source-interface

[no] ip ssh source-interface <ifnum> [vrf { <vrf-name> | <vrf-known-name> }]

Syntax Description

| | |
|-----------------------|--|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| ssh | Configure ssh |
| source-interface | Configure source interface feature for domain-lookup |
| <i>ifnum</i> | Source interface |
| vrf | (Optional) Configure VRF |
| <i>vrf-name</i> | (Optional) VRF name |
| <i>vrf-known-name</i> | (Optional) Known VRF name |

Command Mode

- /exec/configure

ip summary-address eigrp ipv6 summary-address eigrp

```
{ [ no ] ip summary-address eigrp <eigrp-ptag> { { <address> <mask> } | { <prefix> } } [ <distance> ] [ leak-map <leak-map> ] | [ no ] ipv6 summary-address eigrp <eigrp-ptag> <ipv6-prefix> [ <distance> ] [ leak-map <leak-map> ] }
```

Syntax Description

| | |
|-------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| ipv6 | Configure IPv6 features |
| summary-address | Configures IP-EIGRP summary address on interface |
| eigrp | EIGRP interface configuration commands |
| <i>eigrp-ptag</i> | Process tag |
| <i>address</i> | IP address |
| <i>mask</i> | IP network mask |
| <i>prefix</i> | IP prefix in slash format |
| <i>distance</i> | (Optional) Administrative distance |
| leak-map | (Optional) Allow dynamic prefixes based on the leak-map |
| <i>leak-map</i> | (Optional) leak-map name |
| <i>eigrp-ptag</i> | |

Command Mode

- /exec/configure/if-igp

ip tacacs source-interface

ip tacacs source-interface

[no] ip tacacs source-interface | ip tacacs source-interface <interface>

Syntax Description

| | |
|------------------|--|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| tacacs | Tacacs server |
| source-interface | Source interface to be used to reach tacacs server |
| <i>interface</i> | Interface Description |

Command Mode

- /exec/configure

ip tcp mss

{ { no ip tcp mss } | { ip tcp mss <bytes> } }

Syntax Description

| | |
|--------------|---|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| tcp | Global TCP parameters |
| mss | Maximum segment size for TCP connections in bytes |
| <i>bytes</i> | Maximum segment size |

Command Mode

- /exec/configure /exec/configure/config-mgmt

ip tcp path-mtu-discovery

ip tcp path-mtu-discovery

{ { ip tcp path-mtu-discovery } | { no ip tcp path-mtu-discovery } }

Syntax Description

| | |
|--------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| tcp | Global TCP parameters |
| path-mtu-discovery | Enable path-MTU discovery on TCP |

Command Mode

- /exec/configure /exec/configure/config-mgmt

ip tcp synwait-time

{ { no ip tcp synwait-time } | { ip tcp synwait-time <time> } }

Syntax Description

| | |
|--------------|---|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| tcp | Global TCP parameters |
| synwait-time | Set time to wait on new TCP connections |
| <i>time</i> | Wait time |

Command Mode

- /exec/configure /exec/configure/config-mgmt

ip telnet source-interface

ip telnet source-interface

[no] ip telnet source-interface <ifnum> [vrf { <vrf-name> | <vrf-known-name> }]

Syntax Description

| | |
|-----------------------|--|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| telnet | Configure telnet |
| source-interface | Configure source interface feature for domain-lookup |
| <i>ifnum</i> | Source interface |
| vrf | (Optional) Configure VRF |
| <i>vrf-name</i> | (Optional) VRF name |
| <i>vrf-known-name</i> | (Optional) Known VRF name |

Command Mode

- /exec/configure

ip tftp source-interface

[no] ip tftp source-interface <ifnum> [vrf { <vrf-name> | <vrf-known-name> }]

Syntax Description

| | |
|-----------------------|--|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| tftp | Configure TFTP client |
| source-interface | Configure source interface feature for TFTP client |
| <i>ifnum</i> | Source interface |
| vrf | (Optional) Configure VRF |
| <i>vrf-name</i> | (Optional) VRF name |
| <i>vrf-known-name</i> | (Optional) Known VRF name |

Command Mode

- /exec/configure

ip traceroute source-interface

ip traceroute source-interface

[no] ip traceroute source-interface <ifnum> [vrf { <vrf-name> | <vrf-known-name> }]

Syntax Description

| | |
|-----------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| traceroute | Configure traceroute client |
| source-interface | Configure source interface feature for traceroute |
| <i>ifnum</i> | Source interface |
| vrf | (Optional) Configure VRF |
| <i>vrf-name</i> | (Optional) VRF name |
| <i>vrf-known-name</i> | (Optional) Known VRF name |

Command Mode

- /exec/configure

ip ttl

[no] ip ttl <ttl_value>

Syntax Description

| | |
|------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Set ERSPAN IP options |
| ttl | Set the IP time-to-live value |
| <i>ttl_value</i> | |

Command Mode

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

ip udp relay addrgroup

ip udp relay addrgroup

[no] ip udp relay addrgroup <obj-grp-name>

Syntax Description

| | |
|---------------------|---|
| ip | Configure IP features |
| no | (Optional) Negate a command or set its defaults |
| udp | Enable/disable UDP forwarding |
| relay | UDP relay agent parameters |
| addrgroup | UDP Relay IP Address group |
| <i>obj-grp-name</i> | Object grp Name |

Command Mode

- /exec/configure/if-igp

ip udp relay subnet-broadcast

[no] ip udp relay subnet-broadcast

Syntax Description

| | |
|------------------|--|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| udp | Enable/disable UDP forwarding |
| relay | UDP relay agent parameters |
| subnet-broadcast | Enable/disable UDP forwarding for subnet-broadcast |

Command Mode

- /exec/configure/if-igp

ip unnumbered

ip unnumbered <interface> | no ip unnumbered [<interface>]

Syntax Description

| | |
|------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| unnumbered | Configure interface as unnumbered |
| <i>interface</i> | Interface with IP address |

Command Mode

- /exec/configure/ppm-ethernet-switch /exec/configure/if-p2p /exec/configure/if-gre-tunnel
/exec/configure/if-any-tunnel /exec/configure/if-port-channel-sub /exec/configure/if-vlan

ip unreachable

[no] ip unreachable

Syntax Description

| | |
|-------------|---|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| unreachable | 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

ip verify source dhcp-snooping-vlan

[no] ip verify source dhcp-snooping-vlan

Syntax Description

| | |
|--------------------|--|
| no | (Optional) Negate a command or set its defaults |
| ip | Configure IP features |
| verify | Configure Unicast Reverse Path Forwarding or IP Source Guard |
| source | IP Source Guard related commands |
| dhcp-snooping-vlan | Vlans on which snooping is enabled |

Command Mode

- /exec/configure/if-switching

ip verify unicast source reachable-via rx

[no] ip verify unicast source reachable-via [{ rx [allow vni-hosts] | any [allow-default] } [policy { <policy-name> | <acl_pol_name> }]] | ip verify unicast source reachable-via { rx [allow vni-hosts] | any [allow-default] } [policy { <policy-name> | <acl_pol_name> }]

Syntax Description

| | |
|---------------------|---|
| no | Negate a command or set its defaults |
| ip | Configure IP features |
| verify | Configure Unicast Reverse Path Forwarding or IP Source Guard |
| unicast | Unicast Reverse Path Forwarding |
| source | Validation of source address |
| reachable-via | Specify reachability check to apply to the source address |
| rx | (Optional) Source is reachable via interface on which packet was received |
| allow | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| vni-hosts | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| any | (Optional) Source is reachable via any interface |
| allow-default | (Optional) Loose Default Route Unicast Reverse Path Forwarding |
| policy | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| <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

ipv4

[no] ipv4 <aclname>

Syntax Description

| | |
|----------------|---------------------------|
| ipv4 | Specify the ipv4 acl name |
| <i>aclname</i> | ACL name to be applied |

Command Mode

- /exec/configure/nfm-filter

ipv4

[no] ipv4 <aclname>

Syntax Description

| | |
|----------------|---------------------------|
| ipv4 | Specify the ipv4 acl name |
| <i>aclname</i> | ACL name to be applied |

Command Mode

- /exec/configure/nfm-filter

ipv6

[no] ipv6 <aclname>

Syntax Description

| | |
|----------------|---------------------------|
| ipv6 | Specify the ipv6 acl name |
| <i>aclname</i> | ACL name to be applied |

Command Mode

- /exec/configure/nfm-filter

ipv6

[no] ipv6 <aclname>

Syntax Description

| | |
|----------------|---------------------------|
| ipv6 | Specify the ipv6 acl name |
| <i>aclname</i> | ACL name to be applied |

Command Mode

- /exec/configure/nfm-filter

ipv6 access-class

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

Syntax Description

| | |
|----------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| access-class | Specify IPv6 access control for packets |
| <i>acl-ipv6-name</i> | List name |
| <i>inout</i> | Traffic direction |

Command Mode

- /exec/configure/line

ipv6 access-list

[no] ipv6 access-list <acl-ipv6-name> [client <clienttype> <clientID>]

Syntax Description

| | |
|----------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| access-list | Configure access list |
| <i>acl-ipv6-name</i> | List name |
| client | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| <i>clienttype</i> | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| <i>clientID</i> | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |

Command Mode

- /exec/configure

ipv6 access-list match-local-traffic

ipv6 access-list match-local-traffic

[no] ipv6 access-list match-local-traffic | ipv6 access-list match-local-traffic

Syntax Description

| | |
|---------------------|---|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| access-list | Configure access list |
| match-local-traffic | Enable access-list matching for locally generated traffic |

Command Mode

- /exec/configure

ipv6 address

[no] ipv6 address [{ autoconfig [default] | [<ipv6-prefix> [eui64] [use-bia] [route-preference <pref>] [tag <tag>] [anycast]] } | ipv6 address { autoconfig [default] | [<ipv6-prefix> [eui64] [use-bia] [route-preference <pref>] [tag <tag>] [anycast] [aggregate-prefix-length <prefix-length>]] }

Syntax Description

| | |
|-------------------------|---|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| address | Configure IPv6 address on interface |
| autoconfig | (Optional) Configure IPv6 Stateless address autoconfig |
| default | (Optional) For SLAAC, adds default route and the nh would be fetched from RA source address |
| eui64 | (Optional) Configure Extended Unique Identifier for the low-order 64 bits |
| use-bia | (Optional) use BIA |
| 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 |
| <i>tag</i> | (Optional) U6RIB route tag value for local/direct routes |
| <i>tag</i> | (Optional) Local/direct tag value |
| aggregate-prefix-length | (Optional) Prefix-Length for AM Route Aggregation |
| <i>prefix-length</i> | (Optional) Aggregation Prefix-Length Value |

Command Mode

- /exec/configure/if-igp /exec/configure/if-any-tunnel /exec/configure/if-vsan /exec/configure/if-mgmt-config

ipv6 address

{ ipv6 address <ipv6-prefix> | no ipv6 address [<ipv6-prefix>] }

Syntax Description

| | |
|---------|--------------------------------------|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| address | Configure IPv6 address on bridge |

Command Mode

- /exec/configure/app-hosting-bridge

ipv6 address dhcp

[no] ipv6 address dhcp

Syntax Description

| | |
|---------|---|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| address | Configure IPv6 address on interface |
| dhcp | Configure IPv6 address from a dhcp server |

Command Mode

- /exec/configure/if-vlan /exec/configure/if-ethernet /exec/configure/if-mgmt-config
/exec/configure/if-ethernet-all /exec/configure/if-sub

[no] ipv6 address use-link-local-only

ipv6 address use-link-local-only

[no] ipv6 address use-link-local-only | ipv6 address use-link-local-only

Syntax Description

| | |
|---------------------|---|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| address | Configure IPv6 address on interface |
| use-link-local-only | Enable IPv6 on interface using only a single link-local address |

Command Mode

- /exec/configure/if-igp /exec/configure/if-mgmt-config /exec/configure/if-gre-tunnel
/exec/configure/if-6to4-tunnel /exec/configure/if-vsan

ipv6 adjacency-stale-timer

```
{ { ipv6 [ icmp ] adjacency-stale-timer <stale-time> } | { no ipv6 [ icmp ] adjacency-stale-timer [ <stale-time> ] } }
```

Syntax Description

| | |
|-----------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| icmp | (Optional) Configure icmp parameters |
| adjacency-stale-timer | When probing for an adjacency begins |
| <i>stale-time</i> | Seconds after adjacency uptime |

Command Mode

- /exec/configure

ipv6 adjacency route distance

{ ipv6 adjacency route distance <pref> } | { no ipv6 adjacency route distance }

Syntax Description

| | |
|-------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| adjacency | Configure Adjmgr |
| route | route |
| distance | admin-distance |
| <i>pref</i> | preference |

Command Mode

- /exec/configure

ipv6 amt gateway

[no] ipv6 amt gateway

Syntax Description

| | |
|---------|---|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| amt | AMT global configuration commands |
| gateway | Configures IPv6 AMT gateway functionality |

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 amt relay

[no] ipv6 amt relay

Syntax Description

| | |
|-------|---|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| amt | AMT global configuration commands |
| relay | Configures IPv6 AMT relay functionality |

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 destination

{ ipv6 { destination | source } <addr> } | { no ipv6 { destination | source } }

Syntax Description

| | |
|-------------|---------------------------------------|
| no | Negate a command or set its defaults |
| ipv6 | specify flow ipv6 address |
| source | specify flow source ipv6 address |
| destination | specify flow destination ipv6 address |

Command Mode

- /exec/configure/configngamprofileflow

ipv6 dhcp guard

[no] ipv6 dhcp guard [attach-policy <policy_name>]

Syntax Description

| | |
|--------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| <i>policy_name</i> | (Optional) policy name for feature DHCP Guard |

Command Mode

- /exec/configure/if-switching

ipv6 dhcp guard

[no] ipv6 dhcp guard [attach-policy <policy_name>]

Syntax Description

| | |
|--------------------|---|
| no | (Optional) Negate a command or set its defaults |
| <i>policy_name</i> | (Optional) policy name for feature DHCP Guard |

Command Mode

- /exec/configure/vlan-config

ipv6 dhcp guard policy

[no] ipv6 dhcp guard policy <policy_name>

Syntax Description

| | |
|--------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| <i>policy_name</i> | Name of the dhcp guard policy |

Command Mode

- /exec/configure

ipv6 dhcp relay

[no] ipv6 dhcp relay

Syntax Description

| | |
|-------|---|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| dhcp | Configure DHCPv6 relay |
| relay | Configure DHCPv6 relay agent |

Command Mode

- /exec/configure

ipv6 dhcp relay address

[no] ipv6 dhcp relay address [<ip-addr-val> [use-vrf <vrf-name>] [interface <interface-name>]] | no ipv6 dhcp relay address [<ip-addr-val> [interface <interface-name>] [use-vrf <vrf-name>]]

Syntax Description

| | |
|-----------------------|--|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| dhcp | Configure DHCPv6 relay |
| relay | Configure DHCPv6 relay agent |
| address | Configure DHCPv6 server relay address |
| use-vrf | (Optional) server address VRF membership |
| <i>vrf-name</i> | (Optional) VRF name |
| interface | (Optional) Destination interface for the relay address |
| <i>interface-name</i> | (Optional) Destination interface |

Command Mode

- /exec/configure/if-igp

ipv6 dhcp relay address ipv6 dhcp relay address

ipv6 dhcp relay address <ip-addr-val> [use-vrf <vrf-name>] [interface <interface-name>] | ipv6 dhcp relay address <ip-addr-val> [interface <interface-name>] [use-vrf <vrf-name>]

Syntax Description

| | |
|-----------------------|--|
| ipv6 | Configure IPv6 features |
| dhcp | Configure DHCPv6 relay |
| relay | Configure DHCPv6 relay agent |
| address | Configure DHCPv6 server relay address |
| use-vrf | (Optional) server address VRF membership |
| <i>vrf-name</i> | (Optional) VRF name |
| interface | (Optional) Destination interface for the relay address |
| <i>interface-name</i> | (Optional) Destination interface |

Command Mode

- /exec/configure/if-igp /exec/configure/ppm-ethernet-switch /exec/configure/ppm-port-channel-switch

ipv6 dhcp relay option79

ipv6 dhcp relay option79

[no] ipv6 dhcp relay option79

Syntax Description

| | |
|----------|---|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| dhcp | Configure DHCPv6 relay |
| relay | DHCPv6 relay agent parameters |
| option79 | Relay agent option79 |

Command Mode

- /exec/configure

ipv6 dhcp relay option type cisco

[no] ipv6 dhcp relay option type cisco

Syntax Description

| | |
|--------|---|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| dhcp | Configure DHCPv6 relay |
| relay | DHCPv6 relay agent parameters |
| option | Relay agent option |
| type | Relay agent option type |
| cisco | Use Cisco proprietary options |

Command Mode

- /exec/configure

ipv6 dhcp relay option vpn

ipv6 dhcp relay option vpn

[no] ipv6 dhcp relay option vpn

Syntax Description

| | |
|--------|--|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| dhcp | Configure DHCPv6 relay |
| relay | DHCPv6 relay agent parameters |
| option | Insert DHCPv6 relay information in Relay forward |
| vpn | Enable DHCPv6 relay support across VRFs |

Command Mode

- /exec/configure

ipv6 dhcp relay prefix-delegation route

[no] ipv6 dhcp relay prefix-delegation route

Syntax Description

| | |
|-------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| dhcp | Configure DHCPv6 relay |
| relay | Configure DHCPv6 relay agent |
| prefix-delegation | Enable Prefix delegation |
| route | Enable route addition for delegated prefixes |

Command Mode

- /exec/configure

ipv6 dhcp relay source-interface

ipv6 dhcp relay source-interface

[no] ipv6 dhcp relay source-interface

Syntax Description

| | |
|------------------|---|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| dhcp | Configure DHCPv6 relay |
| relay | Configure DHCPv6 relay agent |
| source-interface | Configure source interface for DHCPv6 relay |

Command Mode

- /exec/configure /exec/configure/if-igp

ipv6 dhcp relay source-interface

ipv6 dhcp relay source-interface <interface-name>

Syntax Description

| | |
|-----------------------|---|
| ipv6 | Configure IPv6 features |
| dhcp | Configure DHCPv6 relay |
| relay | Configure DHCPv6 relay agent |
| source-interface | Configure source interface for DHCPv6 relay |
| <i>interface-name</i> | Source interface |

Command Mode

- /exec/configure /exec/configure/if-igp

ipv6 dhcp smart-relay

ipv6 dhcp smart-relay

[no] ipv6 dhcp smart-relay

Syntax Description

| | |
|-------------|---|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| dhcp | Configure DHCP snooping or relay |
| smart-relay | Configure DHCP smart relay on interface |

Command Mode

- /exec/configure/if-igp

ipv6 dhcp smart-relay global

[no] ipv6 dhcp smart-relay global

Syntax Description

| | |
|-------------|---|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| dhcp | Configure DHCP snooping or relay |
| smart-relay | Configure DHCP smart relay |
| global | Configure DHCP smart relay globally |

Command Mode

- /exec/configure

ipv6 filter add

```
 ipv6 filter add <seqno> { src-ipv6 <src-ipv6> dst-ipv6 <dst-ipv6> [ protocol <prot> [ l4-src-port { any | <l4-src-port> } l4-dst-port { any | <l4-dst-port> } ] ] } +
```

Syntax Description

| | |
|--------------------|--|
| ipv6 | Configure IPv6 Filter |
| filter | Define a 5-tuple filter |
| add | Add a 5-tuple |
| <i>seqno</i> | Sequence number |
| src-ipv6 | Source IPv6 address |
| dst-ipv6 | Destination IPv6 address |
| protocol | (Optional) Protocol |
| <i>prot</i> | (Optional) |
| l4-src-port | (Optional) Source L4 port |
| any | (Optional) Any L4 source port between 0 - 65535 |
| <i>l4-src-port</i> | (Optional) Source L4 port number |
| l4-dst-port | (Optional) Destination L4 port |
| any | (Optional) Any L4 destination port between 0 - 65535 |
| <i>l4-dst-port</i> | (Optional) Destination L4 port number |

Command Mode

- /exec/flow-path-tracer

ipv6 flow rtp

[no] ipv6 flow rtp [<ipv6-acl>]

Syntax Description

| | |
|-----------------|--|
| ipv6 | ipv6 configuration |
| flow | Enable/Disable NetFlow configuration |
| rtp | configure rtp flows for packet loss monitoring |
| <i>ipv6-acl</i> | (Optional) ipv6 ACL name |

Command Mode

- /exec/configure

ipv6 forward

ipv6 forward | no ipv6 forward

Syntax Description

| | |
|---------|--------------------------------------|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| forward | Enable ipv6 forwarding on interface |

Command Mode

- /exec/configure/if-vlan /exec/configure/if-vlan-range

ipv6 host

[no] ipv6 host <s0> [<ipv6_0>] | ipv6 host <s0> <ipv6_0>

Syntax Description

| | |
|------|---------------------------------------|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| host | Add an entry to the ip hostname table |
| s0 | Name of Host |

Command Mode

- /exec/configure

ipv6 link-local

[no] ipv6 link-local [<ipv6-addr>] | ipv6 link-local <ipv6-addr>

Syntax Description

| | |
|------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| link-local | Change format of link-local address |

Command Mode

- /exec/configure/if-vlan /exec/configure/if-mgmt-config /exec/configure/if-gre-tunnel
/exec/configure/if-6to4-tunnel /exec/configure/if-igp /exec/configure/if-vsanc

ipv6 link-local use-bia

[no] ipv6 link-local use-bia | ipv6 link-local use-bia

Syntax Description

| | |
|------------|---|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| link-local | Change format of link-local address |
| use-bia | Use burnt-in-address to generate link-local |

Command Mode

- /exec/configure/if-igp

■ **ipv6 local policy route-map**

ipv6 local policy route-map

ipv6 local policy route-map <route-map-name> | no ipv6 local policy route-map [<route-map-name> | <route-map-name>]

Syntax Description

| | |
|-----------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| local | Configure local PBR feature |
| policy | Configure PBR feature |
| route-map | Route-map for PBR |
| <i>route-map-name</i> | Route-map name |
| <i>route-map-name</i> | (Optional) Route-map name |
| <i>route-map-name</i> | (Optional) Known route-map name |

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 mld group-timeout

```
{ { no ipv6 [ icmp ] mld group-timeout [ <time> ] } | { ipv6 [ icmp ] mld group-timeout <time> } }
```

Syntax Description

| | |
|---------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| icmp | (Optional) ICMPv6 commands |
| mld | MLD interface configuration commands |
| group-timeout | Configures group membership timeout |
| <i>time</i> | (Optional) Time in seconds |

Command Mode

- /exec/configure/if-igp

ipv6 mld immediate-leave

[no] ipv6 [icmp] mld immediate-leave

Syntax Description

| | |
|-----------------|---|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| icmp | (Optional) ICMPv6 commands |
| mld | MLD interface configuration commands |
| immediate-leave | Enable/Disable immediate leave |

Command Mode

- /exec/configure/if-igp

ipv6 mld join-group

[no] ipv6 [icmp] mld join-group { { <group> [source <source>] } | { route-map <route-map-name> } }

Syntax Description

| | |
|-----------------------|--|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| icmp | (Optional) ICMPv6 commands |
| mld | MLD interface configuration commands |
| join-group | Configures local group membership for router |
| source | (Optional) Configures source address for MLDv2 (S,G) channel |
| route-map | Join group policy |
| <i>route-map-name</i> | Route-map name |

Command Mode

- /exec/configure/if-igp

ipv6 mld last-member-query-count

{ { no ipv6 [icmp] mld last-member-query-count [<count>] } | { ipv6 [icmp] mld last-member-query-count <count> } }

Syntax Description

| | |
|-------------------------|--|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| icmp | (Optional) ICMPv6 commands |
| mld | MLD 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

ipv6 mld last-member-query-response-time

{ { no ipv6 [icmp] mld last-member-query-response-time [<interval>] } } | { ipv6 [icmp] mld last-member-query-response-time <interval> } }

Syntax Description

| | |
|---------------------------------|--|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| icmp | (Optional) ICMPv6 commands |
| mld | MLD 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

ipv6 mld querier

```
{ { no ipv6 [ icmp ] mld { querier-timeout | query-timeout } [ <time> ] } | { ipv6 [ icmp ] mld { querier-timeout | query-timeout } <time> } }
```

Syntax Description

| | |
|-----------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| icmp | (Optional) ICMPv6 commands |
| mld | MLD interface configuration commands |
| query-timeout | Configures querier timeout for MLDv1 |
| querier-timeout | Configures querier timeout for MLDv1 |
| <i>time</i> | (Optional) Time in seconds |

Command Mode

- /exec/configure/if-igp

ipv6 mld query-interval

```
{ { no ipv6 [ icmp ] mld query-interval [ <interval> ] } | { ipv6 [ icmp ] mld query-interval <interval> } }
```

Syntax Description

| | |
|-----------------|--|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| icmp | (Optional) ICMPv6 commands |
| mld | MLD interface configuration 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
```

ipv6 mld query-max-response-time

{ { no ipv6 [icmp] mld query-max-response-time [<time>] } | { ipv6 [icmp] mld query-max-response-time <time> } }

Syntax Description

| | |
|-------------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| icmp | (Optional) ICMPv6 commands |
| mld | MLD 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

ipv6 mld report-link-local-groups

[no] ipv6 [icmp] mld report-link-local-groups

Syntax Description

| | |
|--------------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| icmp | (Optional) ICMPv6 commands |
| mld | MLD interface configuration commands |
| report-link-local-groups | Send Reports for link-local groups |

Command Mode

- /exec/configure/if-igp

ipv6 mld report

```
{ { ipv6 [ icmp ] mld { report-policy | access-group } <route-map-name> } | { no ipv6 [ icmp ] mld { report-policy | access-group } [ <route-map-name> ] } }
```

Syntax Description

| | |
|-----------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| icmp | (Optional) ICMPv6 commands |
| mld | MLD interface configuration commands |
| report-policy | MLD report policy |
| access-group | MLD access-group |
| <i>route-map-name</i> | Route-map name |

Command Mode

- /exec/configure/if-igp

ipv6 mld robustness-variable

```
{ { no ipv6 [ icmp ] mld robustness-variable [ <value> ] } | { ipv6 [ icmp ] mld robustness-variable <value> } }
```

Syntax Description

| | |
|---------------------|--|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| icmp | (Optional) ICMPv6 commands |
| mld | MLD interface configuration commands |
| robustness-variable | Configures RFC defined Robustness Variable |
| <i>value</i> | (Optional) Count value |

Command Mode

- /exec/configure/if-igp

ipv6 mld snooping

{ { no ipv6 mld snooping } | { ipv6 mld snooping } }

Syntax Description

| | |
|----------|--------------------------------------|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| mld | MLD commands |
| snooping | Configures MLD Snooping |

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ipv6 mld snooping

{ { no ipv6 mld snooping } | { ipv6 mld snooping } }

Syntax Description

| | |
|----------|--------------------------------------|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| mld | MLD global configuration commands |
| snooping | Configures MLD Snooping |

Command Mode

- /exec/configure

ipv6 mld snooping access-group

ipv6 mld snooping access-group

[no] ipv6 mld snooping access-group <route-map-name>

Syntax Description

| | |
|-----------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| mld | MLD commands |
| snooping | Configures MLD Snooping |
| access-group | Filter or report policy for specified groups |
| <i>route-map-name</i> | route-map name |

Command Mode

- /exec/configure/vlan-config

ipv6 mld snooping disable-nve-static-router-port

[no] ipv6 mld snooping disable-nve-static-router-port

Syntax Description

| | |
|--------------------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| mld | MLD global configuration commands |
| snooping | Configures MLD Snooping |
| disable-nve-static-router-port | Disable NVE as a static router port |

Command Mode

- /exec/configure

```
■ ipv6 mld snooping disable-nve-static-router-port
```

ipv6 mld snooping disable-nve-static-router-port

[no] ipv6 mld snooping disable-nve-static-router-port

Syntax Description

| | |
|--------------------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| mld | MLD global configuration commands |
| snooping | Configures MLD Snooping |
| disable-nve-static-router-port | Disable NVE as a static router port |

Command Mode

- /exec/configure

ipv6 mld snooping explicit-tracking

{ { no ipv6 mld snooping explicit-tracking } | { ipv6 mld snooping explicit-tracking } }

Syntax Description

| | |
|-------------------|---|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| mld | MLD commands |
| snooping | Configures MLD Snooping |
| explicit-tracking | Configures Explicit Host tracking for VLAN/BD |

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ipv6 mld snooping fast-leave

{ { no ipv6 mld snooping fast-leave } | { ipv6 mld snooping fast-leave } }

Syntax Description

| | |
|------------|---------------------------------------|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| mld | MLD commands |
| snooping | Configures MLD Snooping |
| fast-leave | Configures Fast leave for the VLAN/BD |

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ipv6 mld snooping group-timeout

[no] ipv6 mld snooping group-timeout { <timeout> | never }

Syntax Description

| | |
|----------------|---|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| mld | MLD commands |
| snooping | Configures MLD 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

■ **ipv6 mld snooping group-timeout**

ipv6 mld snooping group-timeout

[no] ipv6 mld snooping group-timeout { <timeout> | never }

Syntax Description

| | |
|----------------|---|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| mld | MLD commands |
| snooping | Configures MLD 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

ipv6 mld snooping last-member-query-interval

{ { no ipv6 mld snooping last-member-query-interval [<interval>] } | { ipv6 mld snooping last-member-query-interval <interval> } }

Syntax Description

| | |
|----------------------------|--|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| mld | MLD commands |
| snooping | Configures MLD 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

ipv6 mld snooping link-local-groups-suppression

ipv6 mld snooping link-local-groups-suppression

[no] ipv6 mld snooping link-local-groups-suppression

Syntax Description

| | |
|-------------------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| mld | MLD global configuration commands |
| snooping | Configures MLD Snooping |
| link-local-groups-suppression | Configures Global link-local groups suppression |

Command Mode

- /exec/configure

ipv6 mld snooping link-local-groups-suppression

[no] ipv6 mld snooping link-local-groups-suppression

Syntax Description

| | |
|-------------------------------|--|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| mld | MLD commands |
| snooping | Configures MLD Snooping |
| link-local-groups-suppression | Configures VLAN/BD link-local groups suppression |

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ipv6 mld snooping many-to-one-enhance

[no] ipv6 mld snooping many-to-one-enhance

Syntax Description

| | |
|---------------------|--|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| mld | MLD global configuration commands |
| snooping | Configures MLD Snooping |
| many-to-one-enhance | Enable many to one optimization for n3500 platform |

Command Mode

- /exec/configure

ipv6 mld snooping max-gq-miss

{ { no ipv6 mld snooping max-gq-miss } | { ipv6 mld snooping max-gq-miss <count> } }

Syntax Description

| | |
|--------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| mld | MLD global configuration commands |
| snooping | Configures MLD Snooping |
| max-gq-miss | Configure general query miss count |
| <i>count</i> | Max number of GQ misses allowed |

Command Mode

- /exec/configure

ipv6 mld snooping mrouter interface

{ [no] ipv6 mld snooping mrouter interface [vsi] <interface> }

Syntax Description

| | |
|------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| mld | MLD commands |
| snooping | Configures MLD Snooping |
| mrouter | Configures static multicast router interface |
| interface | Specify interface for static-mrouter |
| vsi | (Optional) Specify if this interface is a VSI |
| <i>interface</i> | Interface name |

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ipv6 mld snooping mrouter vpc-peer-link

[no] ipv6 mld snooping mrouter vpc-peer-link

Syntax Description

| | |
|---------------|--|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| mld | MLD global configuration commands |
| snooping | Configures MLD 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

■ **ipv6 mld snooping optimise-multicast-flood**

ipv6 mld snooping optimise-multicast-flood

[no] ipv6 mld snooping optimise-multicast-flood

Syntax Description

| | |
|--------------------------|--|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| mld | MLD global configuration commands |
| snooping | Configures MLD Snooping |
| optimise-multicast-flood | Configures Optimized Multicast Flood (OMF) on all VLAN/BDs |

Command Mode

- /exec/configure

ipv6 mld snooping proxy-leave use-group-address

{ { ipv6 mld snooping proxy-leave use-group-address } | { no ipv6 mld snooping proxy-leave use-group-address } }

Syntax Description

| | |
|-------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| mld | MLD commands |
| snooping | Configures MLD Snooping |
| proxy-leave | Proxy Leave |
| use-group-address | Use group address for proxy leave |

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ipv6 mld snooping proxy general-queries

[no] ipv6 mld snooping proxy general-queries [mrt <mrt>]

Syntax Description

| | |
|-----------------|---|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| mld | MLD commands |
| snooping | Configures MLD Snooping |
| proxy | Configures MLD 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

ipv6 mld snooping proxy general-queries

[no] ipv6 mld snooping proxy general-queries [mrt <mrt>]

Syntax Description

| | |
|-----------------|---|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| mld | MLD commands |
| snooping | Configures MLD Snooping |
| proxy | Configures MLD 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

ipv6 mld snooping querier-timeout

{ { no ipv6 mld snooping querier-timeout [<time>] } | { ipv6 mld snooping querier-timeout <time> } }

Syntax Description

| | |
|-----------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| mld | MLD commands |
| snooping | Configures MLD Snooping |
| querier-timeout | Configures querier timeout for MLDv2 |
| <i>time</i> | (Optional) Time in seconds |

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ipv6 mld snooping querier

{ { no ipv6 mld snooping querier [<querier>] } | { ipv6 mld snooping querier <querier> } }

Syntax Description

| | |
|----------|--------------------------------------|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| mld | MLD commands |
| snooping | Configures MLD Snooping |
| querier | Enables snooping querier |

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

■ **ipv6 mld snooping query-interval**

ipv6 mld snooping query-interval

{ { no ipv6 mld snooping query-interval [<interval>] } | { ipv6 mld snooping query-interval <interval> } }

Syntax Description

| | |
|-----------------|--|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| mld | MLD commands |
| snooping | Configures MLD Snooping |
| query-interval | Configures interval between query transmission |
| <i>interval</i> | (Optional) Interval in seconds |

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ipv6 mld snooping query-max-response-time

{ { no ipv6 mld snooping query-max-response-time [<time>] } | { ipv6 mld snooping query-max-response-time <time> } }

Syntax Description

| | |
|-------------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| mld | MLD commands |
| snooping | Configures MLD 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

ipv6 mld snooping report-flood all

{ { ipv6 mld snooping report-flood { all | interface <interface> } } | { no ipv6 mld snooping report-flood { all | interface <interface> } } }

Syntax Description

| | |
|------------------|---------------------------------------|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| mld | MLD commands |
| snooping | Configures MLD 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

ipv6 mld snooping report-suppression

{ { no ipv6 mld snooping report-suppression } | { ipv6 mld snooping report-suppression } }

Syntax Description

| | |
|--------------------|---|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| mld | MLD commands |
| snooping | Configures MLD Snooping |
| report-suppression | Configures MLDv1 Report Suppression for the VLAN/BD |

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ipv6 mld snooping report-suppression

ipv6 mld snooping report-suppression

{ { no ipv6 mld snooping report-suppression } | { ipv6 mld snooping report-suppression } }

Syntax Description

| | |
|--------------------|--|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| mld | MLD global configuration commands |
| snooping | Configures MLD Snooping |
| report-suppression | Configures Global MLDv1 Report Suppression |

Command Mode

- /exec/configure

ipv6 mld snooping report prefix interface

{ [no] ipv6 mld snooping { report-policy | access-group } { prefix-list | route-map } <pname> interface <interface> }

Syntax Description

| | |
|------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| mld | MLD commands |
| snooping | Configures MLD Snooping |
| report-policy | MLD report policy |
| access-group | Filter or report policy for specified groups |
| prefix-list | IPv6 Prefix-List report policy |
| route-map | Route-Map report policy |
| <i>pname</i> | Policy Name |
| interface | Specify interface for filtering |
| <i>interface</i> | Interface name |

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ipv6 mld snooping robustness-variable

```
{ { no ipv6 mld snooping robustness-variable [ <value> ] } | { ipv6 mld snooping robustness-variable <value> } }
```

Syntax Description

| | |
|---------------------|--|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| mld | MLD commands |
| snooping | Configures MLD Snooping |
| robustness-variable | Configures RFC defined Robustness Variable |
| <i>value</i> | (Optional) Count value |

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ipv6 mld snooping startup-query-count

```
{ { no ipv6 mld snooping startup-query-count [ <count> ] } | { ipv6 mld snooping startup-query-count <count> }
```

Syntax Description

| | |
|---------------------|--|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| mld | MLD commands |
| snooping | Configures MLD 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

ipv6 mld snooping startup-query-interval

{ { no ipv6 mld snooping startup-query-interval [<interval>] } | { ipv6 mld snooping startup-query-interval <interval> } }

Syntax Description

| | |
|------------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| mld | MLD commands |
| snooping | Configures MLD 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

ipv6 mld snooping static-group interface

{ [no] ipv6 mld snooping static-group <group> [source <source>] interface [vsi] <interface> }

Syntax Description

| | |
|------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| mld | MLD commands |
| snooping | Configures MLD Snooping |
| static-group | Configures static group membership |
| source | (Optional) Configures static (S,G) channel |
| interface | Specify interface for static-group |
| vsi | (Optional) Specify if this interface is a VSI |
| <i>interface</i> | Interface name |

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ipv6 mld snooping syslog-threshold

{ ipv6 mld snooping syslog-threshold <percentage> } | { no ipv6 mld snooping syslog-threshold }

Syntax Description

| | |
|-------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| mld | MLD global configuration commands |
| snooping | Configures MLD Snooping |
| syslog-threshold | MLD SNOOPING table syslog threshold |
| <i>percentage</i> | Percentage |

Command Mode

- /exec/configure

ipv6 mld snooping v2-report-suppression

{ { no ipv6 mld snooping v2-report-suppression } | { ipv6 mld snooping v2-report-suppression } }

Syntax Description

| | |
|-----------------------|--|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| mld | MLD global configuration commands |
| snooping | Configures MLD Snooping |
| v2-report-suppression | Configures Global MLDv2 Report Suppression and Proxy Reporting |

Command Mode

- /exec/configure

ipv6 mld snooping v2-report-suppression

ipv6 mld snooping v2-report-suppression

{ { no ipv6 mld snooping v2-report-suppression } | { ipv6 mld snooping v2-report-suppression } }

Syntax Description

| | |
|-----------------------|---|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| mld | MLD commands |
| snooping | Configures MLD Snooping |
| v2-report-suppression | Configures MLDb2 Report Suppression and Proxy Reporting for the VLAN/BD |

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ipv6 mld snooping version

{ { no ipv6 mld snooping version [<version>] } | { ipv6 mld snooping version <version> } }

Syntax Description

| | |
|----------------|---|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| mld | MLD commands |
| snooping | Configures MLD Snooping |
| version | Configures MLD version number for VLAN/BD |
| <i>version</i> | (Optional) Version number value |

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ipv6 mld snooping vxlan-umc drop

ipv6 mld snooping vxlan-umc drop

[no] ipv6 mld snooping vxlan-umc drop [vlan <vlans-range>]

Syntax Description

| | |
|--------------------|--|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| mld | MLD global configuration commands |
| snooping | Configures MLD 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

ipv6 mld snooping vxlan

{ { no ipv6 mld snooping vxlan } | { ipv6 mld snooping vxlan } }

Syntax Description

| | |
|----------|--------------------------------------|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| mld | MLD global configuration commands |
| snooping | Configures MLD Snooping |
| vxlan | Configures Snooping for vxlan vlans |

Command Mode

- /exec/configure

ipv6 mld ssm-translate

[no] ipv6 [icmp] mld ssm-translate <group> <source>

Syntax Description

| | |
|---------------|---|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| icmp | (Optional) Configure icmp parameters |
| mld | MLD global configuration commands |
| ssm-translate | Translate MLDv1 reports to (S,G) route entries |

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 mld startup-query-count

```
{ { no ipv6 [ icmp ] mld startup-query-count [ <count> ] } | { ipv6 [ icmp ] mld startup-query-count <count> } }
```

Syntax Description

| | |
|---------------------|--|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| icmp | (Optional) ICMPv6 commands |
| mld | MLD 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

```
■ ipv6 mld startup-query-interval
```

ipv6 mld startup-query-interval

{ { no ipv6 [icmp] mld startup-query-interval [<interval>] } | { ipv6 [icmp] mld startup-query-interval <interval> } }

Syntax Description

| | |
|------------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| icmp | (Optional) ICMPv6 commands |
| mld | MLD interface configuration commands |
| startup-query-interval | Configures query interval at startup |
| <i>interval</i> | (Optional) Interval in seconds |

Command Mode

- /exec/configure/if-igp

ipv6 mld state-limit

```
{ { ipv6 [ icmp ] mld state-limit <max-states> [ reserved <route-map-name> <max-reserved> ] } | { no ipv6
[ icmp ] mld state-limit [ <max-states> [ reserved <route-map-name> <max-reserved> ] ] } }
```

Syntax Description

| | |
|-----------------------|---|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| icmp | (Optional) ICMPv6 commands |
| mld | MLD interface configuration commands |
| state-limit | Configures State limit |
| <i>max-states</i> | Maximum states allowed |
| reserved | (Optional) Reserve the states using route-map |
| <i>route-map-name</i> | (Optional) Route-map name |
| <i>max-reserved</i> | (Optional) Maximum (*,G)/(S,G) entires allowed on the interface |

Command Mode

- /exec/configure/if-igp

ipv6 mld syslog-threshold

ipv6 mld syslog-threshold

{ ipv6 [icmp] mld syslog-threshold <percentage> } | { no ipv6 [icmp] mld syslog-threshold }

Syntax Description

| | |
|-------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| icmp | (Optional) ICMPv6 commands |
| mld | MLD global configuration commands |
| syslog-threshold | MLD table syslog threshold |
| <i>percentage</i> | Percentage |

Command Mode

- /exec/configure

ipv6 mld version

{ { no ipv6 mld version [<version>] } | { ipv6 mld version <version> } }

Syntax Description

| | |
|----------------|---|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| mld | MLD interface configuration commands |
| version | Configures MLD version number for interface |
| <i>version</i> | (Optional) Version number value |

Command Mode

- /exec/configure/if-igp

■ **ipv6 multicast group-range prefix-list**

{ ipv6 multicast group-range prefix-list <prefix-list-name> } | { no ipv6 multicast group-range prefix-list [<prefix-list-name>] }

Syntax Description

| | |
|-------------------------|---|
| no | Negate a command or set its defaults |
| ipv6 | Display IP information |
| multicast | Display multicast information |
| group-range | Display group-range prefix |
| prefix-list | Group range prefix-list policy for multicast boundary |
| <i>prefix-list-name</i> | Name of prefix-list |

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 multicast multipath

[no] ipv6 multicast multipath { <multipath-type> }

Syntax Description

| | |
|-----------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Display IPv6 information |
| multicast | Configure IP multicast global parameters |
| multipath | Configure ECMP multicast load splitting |
| <i>multipath-type</i> | multipath type |

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 multicast multipath resilient

[no] ipv6 multicast multipath resilient

Syntax Description

| | |
|-----------|---|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Display IPv6 information |
| multicast | Configure IP multicast global parameters |
| multipath | Configure ECMP multicast load splitting |
| resilient | Configure resilient RPF interface |

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 nd cache limit

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

Syntax Description

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

Command Mode

- /exec/configure

ipv6 nd dad attempts

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

Syntax Description

| | |
|----------------|--|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| nd | ICMPv6 Neighbor Discovery commands |
| dad | Duplicate Address Detection |
| attempts | Set IPv6 Duplicate Address Detection Transmits |
| <i>attempt</i> | Number of attempts |

Command Mode

- /exec/configure/if-igp

ipv6 nd dadns-discover

{ ipv6 nd dadns-discover <dadns_interval> } | { no ipv6 nd dadns-discover }

Syntax Description

| | |
|-----------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| nd | ICMPv6 Neighbor Discovery commands |
| dadns-discover | Discover host from DADNS |
| <i>dadns_interval</i> | Interval in milliseconds |

Command Mode

- /exec/configure/if-igp

ipv6 nd delete-adj-on-mac-delete

ipv6 nd delete-adj-on-mac-delete

ipv6 nd delete-adj-on-mac-delete | no ipv6 nd delete-adj-on-mac-delete

Syntax Description

| | |
|--------------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| nd | ICMPv6 Neighbor Discovery commands |
| delete-adj-on-mac-delete | Delete the adjacency on MAC delete |

Command Mode

- /exec/configure/if-vlan-common

ipv6 nd drop-fragments

ipv6 nd drop-fragments | no ipv6 nd drop-fragments

Syntax Description

| | |
|----------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| nd | ICMPv6 Neighbor Discovery commands |
| drop-fragments | Drop fragmented ND packets |

Command Mode

- /exec/configure

ipv6 nd hop-limit

{ { ipv6 nd hop-limit <hop-limit> } | { no ipv6 nd hop-limit [<hop-limit>] } }

Syntax Description

| | |
|------------------|--|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| nd | ICMPv6 Neighbor Discovery commands |
| hop-limit | Sent in RA messages, tells hosts what hop-limit to use when originating IPv6 packets |
| <i>hop-limit</i> | Hop limit in IPv6 header |

Command Mode

- /exec/configure/if-igp

ipv6 nd local-proxy no-hw-flooding

{ { ipv6 nd local-proxy <prefix> no-hw-flooding } | { no ipv6 nd local-proxy <prefix> no-hw-flooding } }

Syntax Description

| | |
|----------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| nd | ICMPv6 Neighbor Discovery commands |
| local-proxy | enable nd local proxy |
| no-hw-flooding | disable hardware flooding |

Command Mode

- /exec/configure/if-vlan-common

ipv6 nd local-proxy no-hw-flooding

{ { ipv6 nd local-proxy <prefix> no-hw-flooding } | { no ipv6 nd local-proxy <prefix> no-hw-flooding } }

Syntax Description

| | |
|----------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| nd | ICMPv6 Neighbor Discovery commands |
| local-proxy | enable nd local proxy |
| no-hw-flooding | disable hardware flooding |

Command Mode

- /exec/configure/if-vlan-common

ipv6 nd mac-extract

[no] ipv6 nd mac-extract [exclude nud-phase]

Syntax Description

| | |
|-------------|---|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| nd | ICMPv6 Neighbor Discovery commands |
| mac-extract | Extract next hop MAC address embedded in IPV6 address |
| exclude | (Optional) Exclude |
| nud-phase | (Optional) during NUD phase |

Command Mode

- /exec/configure/if-igp

ipv6 nd managed-config-flag

ipv6 nd managed-config-flag

[no] ipv6 nd managed-config-flag

Syntax Description

| | |
|---------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| nd | ICMPv6 Neighbor Discovery commands |
| managed-config-flag | Sent in RA messages, tells hosts to use stateful address auto-configuration to obtain address information |

Command Mode

- /exec/configure/if-igp

ipv6 nd mtu

{ { ipv6 nd mtu <mtu> } | { no ipv6 nd mtu [<mtu>] } }

Syntax Description

| | |
|------------|---|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| nd | ICMPv6 Neighbor Discovery commands |
| mtu | Sent in RA messages, tells hosts what MTU to use on this link |
| <i>mtu</i> | MTU in bytes |

Command Mode

- /exec/configure/if-igp

ipv6 nd ns-interval

{ { ipv6 nd ns-interval <interval> [<retry-count>] } | { no ipv6 nd ns-interval [<interval>] } }

Syntax Description

| | |
|--------------------|--|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| nd | ICMPv6 Neighbor Discovery commands |
| ns-interval | Retransmission interval between sending Neighbor-Solicitation messages |
| <i>interval</i> | Interval in milliseconds |
| <i>retry-count</i> | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |

Command Mode

- /exec/configure/if-igp

ipv6 nd off-list timeout

{ ipv6 nd off-list timeout <time> } | { no ipv6 nd off-list timeout }

Syntax Description

| | |
|-------------|--|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| nd | Display Neighbor Discovery interface information |
| off-list | off-list |
| timeout | Expire time |
| <i>time</i> | Expire time value in seconds |

Command Mode

- /exec/configure

ipv6 nd other-config-flag

[no] ipv6 nd other-config-flag

Syntax Description

| | |
|-------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| nd | ICMPv6 Neighbor Discovery commands |
| other-config-flag | Sent in RA messages, tells hosts to use stateful auto-configuration to obtain non-address related information |

Command Mode

- /exec/configure/if-igp

ipv6 nd prefix

```
{ { ipv6 nd prefix <prefix> [ { <val-life> | infinite } { <perf-life> | infinite } [ [ no-autoconfig ] [ no-onlink ] [ no-rtr-address ] [ off-link ] ] | no-advertise ] } | { no ipv6 nd prefix <prefix> } }
```

Syntax Description

| | |
|------------------|---|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| nd | ICMPv6 Neighbor Discovery commands |
| prefix | IPv6 Prefix to advertise in RA |
| <i>val-life</i> | (Optional) Valid Lifetime (secs) |
| infinite | (Optional) Infinite Valid Lifetime |
| no-advertise | (Optional) Do not advertise prefix |
| <i>perf-life</i> | (Optional) Preferred Lifetime (secs) |
| infinite | (Optional) Infinite Preferred Lifetime |
| no-autoconfig | (Optional) Do not use prefix for autoconfiguration |
| no-onlink | (Optional) Do not use prefix for onlink determination |
| no-rtr-address | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| off-link | (Optional) Prefix is offlink |

Command Mode

- /exec/configure/if-igp

ipv6 nd prefix default

```
{ { ipv6 nd prefix default [ { <val-life> | infinite } { <perf-life> | infinite } [ [ no-autoconfig ] [ no-onlink ] [ no-rtr-address ] [ off-link ] ] | no-advertise ] } | { no ipv6 nd prefix default } }
```

Syntax Description

| | |
|------------------|---|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| nd | ICMPv6 Neighbor Discovery commands |
| prefix | IPv6 Prefix to advertise in RA |
| default | Specify prefix default parameters |
| <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 | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| off-link | (Optional) Prefix is offlink |

Command Mode

- /exec/configure/if-igp

ipv6 nd ra-interval

```
 ipv6 nd ra-interval <interval> [ min <min-interval> ] | no ipv6 nd ra-interval [ <interval> ] [ min <min-interval> ]
```

Syntax Description

| | |
|---------------------|---|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| nd | ICMPv6 Neighbor Discovery commands |
| ra-interval | Interval between sending Router-Advertisement messages |
| <i>interval</i> | Interval in seconds |
| min | (Optional) Minimum interval between sending RA messages |
| <i>min-interval</i> | (Optional) Interval in seconds |

Command Mode

- /exec/configure/if-igp

ipv6 nd ra-lifetime

{ { ipv6 nd ra-lifetime <lifetime> } | { no ipv6 nd ra-lifetime [<lifetime>] } }

Syntax Description

| | |
|-----------------|--|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| nd | ICMPv6 Neighbor Discovery commands |
| ra-lifetime | Sent in RA messages, Router Lifetime of a default router, 0 means this router will not be the default router |
| <i>lifetime</i> | Lifetime in seconds |

Command Mode

- /exec/configure/if-igp

ipv6 nd ra bootfile-url

{ { ipv6 nd ra bootfile-url <url> } | { no ipv6 nd ra bootfile-url } }

Syntax Description

| | |
|--------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| nd | ICMPv6 Neighbor Discovery commands |
| ra | Router Advertisement |
| bootfile-url | Set boot-file-url option |
| <i>url</i> | url for boot file |

Command Mode

- /exec/configure/if-igp

ipv6 nd ra dns search-list sequence

[no] ipv6 nd ra dns search-list <dnssl> [{ <dnssl_life> | infinite }] sequence <seqno>

Syntax Description

| | |
|-------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| nd | ICMPv6 Neighbor Discovery commands |
| ra | Router Advertisement |
| dns | Domain Name System |
| search-list | DNS Search List |
| <i>dnssl</i> | Configure DNS Search List to advertise in RA |
| <i>dnssl_life</i> | (Optional) Configure IPv6 DNS Search list life time |
| infinite | (Optional) Configure IPv6 DNS Search list life time with infinite |
| sequence | Sequence of Search List |
| <i>seqno</i> | Sequence number |

Command Mode

- /exec/configure/if-igp

ipv6 nd ra dns search-list suppress

[no] ipv6 nd ra dns search-list suppress

Syntax Description

| | |
|-------------|--|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| nd | ICMPv6 Neighbor Discovery commands |
| ra | Router Advertisement |
| dns | Domain Name System |
| search-list | DNS Search List |
| suppress | Disable sending DNSSL in Router-Advertisement messages |

Command Mode

- /exec/configure/if-igp

ipv6 nd ra dns server sequence

ipv6 nd ra dns server sequence

[no] ipv6 nd ra dns server <ipv6_addr> [{ <rdnss_life> | infinite }] sequence <seqno>

Syntax Description

| | |
|-------------------|--|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| nd | ICMPv6 Neighbor Discovery commands |
| ra | Router Advertisement |
| dns | Domain Name System |
| server | Domain Name System Server |
| <i>rdnss_life</i> | (Optional) Configure IPv6 DNS Server life time |
| infinite | (Optional) Configure IPv6 DNS Server life time with infinite |
| sequence | Sequence of Server |
| <i>seqno</i> | Sequence number |

Command Mode

- /exec/configure/if-igp

ipv6 nd ra dns server suppress

[no] ipv6 nd ra dns server suppress

Syntax Description

| | |
|----------|--|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| nd | ICMPv6 Neighbor Discovery commands |
| ra | Router Advertisement |
| dns | Domain Name System |
| server | Domain Name System Server |
| suppress | Disable sending RDNSS in Router-Advertisement messages |

Command Mode

- /exec/configure/if-igp

ipv6 nd ra route suppress

ipv6 nd ra route suppress

[no] ipv6 nd ra route suppress

Syntax Description

| | |
|----------|--|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| nd | ICMPv6 Neighbor Discovery commands |
| ra | Router Advertisement |
| route | Route Information Option in RFC 4191 |
| suppress | Disable sending Route Information Options in RA messages |

Command Mode

- /exec/configure/if-igp

ipv6 nd raguard

[no] ipv6 nd raguard

Syntax Description

| | |
|---------|---|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| nd | Configure IPv6 ND |
| raguard | Configure RA guard |

Command Mode

- /exec/configure/if-switching

ipv6 nd raguard

[no] ipv6 nd raguard [attach-policy <policy_name>]

Syntax Description

| | |
|--------------------|---|
| no | (Optional) Negate a command or set its defaults |
| <i>policy_name</i> | (Optional) policy name for ipv6 raguard |

Command Mode

- /exec/configure/vlan-config

ipv6 nd raguard attach-policy

[no] ipv6 nd raguard attach-policy <policy_name>

Syntax Description

| | |
|--------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| <i>policy_name</i> | policy name for feature RA guard |

Command Mode

- /exec/configure/if-switching

ipv6 nd raguard policy

[no] ipv6 nd raguard policy <policy_name>

Syntax Description

| | |
|--------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| <i>policy_name</i> | Name of the raguard policy |

Command Mode

- /exec/configure

ipv6 nd reachable-time

{ { ipv6 nd reachable-time <time> } | { no ipv6 nd reachable-time [<time>] } }

Syntax Description

| | |
|----------------|--|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| nd | ICMPv6 Neighbor Discovery commands |
| reachable-time | Sent in RA messages, advertised time when a node considers a neighbor up after receiving a reachability confirmation |
| <i>time</i> | Time in milliseconds |

Command Mode

- /exec/configure/if-igp

ipv6 nd retrans-timer

{ { ipv6 nd retrans-timer <time> } | { no ipv6 nd retrans-timer [<time>] } }

Syntax Description

| | |
|---------------|--|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| nd | ICMPv6 Neighbor Discovery commands |
| retrans-timer | Sent in RA messages, advertised time between NS messages |
| <i>time</i> | Time in milliseconds |

Command Mode

- /exec/configure/if-igp

ipv6 nd route route-preference High Low Medium infinite

```
{ { ipv6 nd route <prefix> route-preference { High | Low | Medium } { <lifetime> | infinite } [ { verify-reachability } ] } | { no ipv6 nd route { <prefix> | all } route-preference } }
```

Syntax Description

| | |
|---------------------|--|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| nd | ICMPv6 Neighbor Discovery commands |
| route | Route Information Option in RFC 4191 |
| route-preference | Route preference value |
| High | High router preference |
| Low | Low router preference |
| Medium | Medium router preference |
| <i>lifetime</i> | Lifetime (secs) |
| infinite | Infinite lifetime of prefix |
| verify-reachability | (Optional) Verify if route is present in Route table |
| all | Remove all the Router Preference prefixes |

Command Mode

- /exec/configure/if-igp

ipv6 nd router-preference High Low Medium

{ { ipv6 nd router-preference { High | Low | Medium } } } | { no ipv6 nd router-preference } }

Syntax Description

| | |
|-------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| nd | ICMPv6 Neighbor Discovery commands |
| router-preference | Set default router preference value |
| High | High default router preference |
| Low | Low default router preference |
| Medium | Medium default router preference |

Command Mode

- /exec/configure/if-igp

ipv6 nd solicit-na accept

```
{ ipv6 nd solicit-na { { accept [ no-probe | <interval> ] | [ no-accept ] } | { accept1 [ no-probe1 | <interval1> ] | [ no-accept1 ] } } } | { no ipv6 nd solicit-na }
```

Syntax Description

| | |
|------------------|--|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| nd | ICMPv6 Neighbor Discovery commands |
| solicit-na | Solicited Neighbor Advertisemen |
| accept | Accept Solicit NA without incomplete entry |
| no-probe | (Optional) Do not probe, create a Reachable Entry |
| <i>interval</i> | (Optional) Probe Interval in Seconds |
| no-accept | (Optional) Do not accept Solicit NA without incomplete entry |
| accept1 | Accept Solicit NA without incomplete entry |
| no-probe1 | (Optional) Do not probe, create a Reachable Entry |
| <i>interval1</i> | (Optional) Probe Interval in Seconds |
| no-accept1 | (Optional) Do not accept Solicit NA without incomplete entry |

Command Mode

- /exec/configure

ipv6 nd suppress-ra

ipv6 nd suppress-ra

[no] ipv6 nd suppress-ra [mtu]

Syntax Description

| | |
|-------------|---|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| nd | ICMPv6 Neighbor Discovery commands |
| suppress-ra | Disable sending Router-Advertisement messages |
| mtu | (Optional) Disable sending MTU in Router-Advertisement messages |

Command Mode

- /exec/configure/if-igp

ipv6 nd synchronize

[no] ipv6 nd synchronize

Syntax Description

| | |
|-------------|--|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| nd | Display Neighbor Discovery interface information |
| synchronize | CFS synchronize |

Command Mode

- /exec/configure/vpc-domain

ipv6 neighbor

[no] ipv6 neighbor <ipv6-addr> [<mac-addr>] | ipv6 neighbor <ipv6-addr> <mac-addr>

Syntax Description

| | |
|-----------------|---|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| neighbor | Configure IPv6 address to layer-2 address mapping |
| <i>mac-addr</i> | (Optional) Layer-2 MAC address |

Command Mode

- /exec/configure/if-igp /exec/configure/if-mgmt-config /exec/configure/if-vlan-common

ipv6 neighbor allow-static-neighbor-outside-subnet

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

Syntax Description

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

Command Mode

- /exec/configure

ipv6 neighbor binding

[no] ipv6 neighbor binding { { vlan <vlanid> { <ipv6addr1> } } interface <intf> [<mac-address> [tracking { default | disable | enable [retry-interval { default | <interval> }] }] [reachable-lifetime { default | infinite | <reach-secs> }]] }

Syntax Description

| | |
|-------------|---|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| vlanid | Number of entries |
| intf | Interface |
| mac-address | (Optional) 48-bit hardware address / <cr> for any mac address |
| interval | (Optional) seconds |
| reach-secs | (Optional) seconds |

Command Mode

- /exec/configure

ipv6 neighbor binding

[no] ipv6 neighbor binding { { reachable-lifetime { infinite | <reach-secs> } } | { stale-lifetime { infinite | <stale-secs> } } | { down-lifetime { infinite | <down-secs> } } } +

Syntax Description

| | |
|-------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| <i>reach-secs</i> | Seconds |
| <i>stale-secs</i> | Seconds |
| <i>down-secs</i> | Seconds |

Command Mode

- /exec/configure

ipv6 neighbor binding logging

[no] ipv6 neighbor binding logging

Syntax Description

| | |
|------|---|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |

Command Mode

- /exec/configure

ipv6 neighbor binding max-entries

```
{ ipv6 neighbor binding max-entries <box-lim> { [ vlan-limit <vlan-lim> ] | [ port-limit <port-lim> ] | [ mac-limit <mac-lim> ] } + | no ipv6 neighbor binding max-entries [ <box-lim> { [ vlan-limit <vlan-lim> ] | [ port-limit <port-lim> ] | [ mac-limit <mac-lim> ] } + ] }
```

Syntax Description

| | |
|-----------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| <i>box-lim</i> | Number of entries |
| <i>vlan-lim</i> | (Optional) Number of entries |
| <i>port-lim</i> | (Optional) Number of entries |
| <i>mac-lim</i> | (Optional) Number of entries |

Command Mode

- /exec/configure

ipv6 neighbor tracking

[no] ipv6 neighbor tracking [retry-interval <interval>]

Syntax Description

| | |
|-----------------|---|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| <i>interval</i> | (Optional) Seconds |

Command Mode

- /exec/configure

ipv6 pim allow-rp

```
{ ipv6 pim allow-rp { <route-map-name> } | no ipv6 pim allow-rp [ <route-map-name> ] }
```

Syntax Description

| | |
|-----------------------|--|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| pim | PIM6 global configuration commands |
| allow-rp | Sparse-Mode RP addresses to be allowed |
| <i>route-map-name</i> | Route-map name |

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 pim anycast-rp

[no] ipv6 pim anycast-rp <anycast-rp> <rp-addr>

Syntax Description

| | |
|------------|---|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| pim | PIM6 global configuration commands |
| anycast-rp | Configure an RP in an Anycast-RP set (using PIM6) |

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 pim assert-rate-limit

{ { ipv6 pim assert-rate-limit <rate> } | { no ipv6 pim assert-rate-limit [<rate>] } }

Syntax Description

| | |
|-------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| pim | PIM6 global configuration commands |
| assert-rate-limit | Rate limit for PIM6 Asserts |
| <i>rate</i> | Packets per second |

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 pim bidir-rp-limit

[no] ipv6 pim bidir-rp-limit <limit>

Syntax Description

| | |
|----------------|---|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| pim | PIM6 global configuration commands |
| bidir-rp-limit | Configures maximum Bidir RPs for IPv6 PIM in this VRF |
| <i>limit</i> | Set limit for Bidir RPs permitted in IPv6 PIM |

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 pim border-router

[no] ipv6 pim border-router

Syntax Description

| | |
|---------------|---|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| pim | PIM interface configuration commands |
| border-router | Configures the interface to be a boundary of a PIM6-SM domain |

Command Mode

- /exec/configure/if-igp

ipv6 pim border

[no] ipv6 pim border

Syntax Description

| | |
|--------|--|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| pim | PIM interface configuration commands |
| border | Configures interface to be a boundary of a PIM6 domain |

Command Mode

- /exec/configure/if-igp

ipv6 pim dr-priority

{ { ipv6 pim dr-priority <priority> } | { no ipv6 pim dr-priority [<priority>] } }

Syntax Description

| | |
|-----------------|---|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| pim | PIM interface configuration commands |
| dr-priority | Configures priority for PIM6 DR election on interface |
| <i>priority</i> | Priority value |

Command Mode

- /exec/configure/if-igp

ipv6 pim evpn-border-leaf

[no] ipv6 pim evpn-border-leaf

Syntax Description

| | |
|------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| pim | PIM6 global configuration commands |
| evpn-border-leaf | Configure this node as a border leaf |

Command Mode

- /exec/configure

ipv6 pim flush-routes

[no] ipv6 pim flush-routes

Syntax Description

| | |
|--------------|---|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| pim | PIM6 global configuration commands |
| flush-routes | Remove routes when restarting PIM6 |

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 pim hello-interval

ipv6 pim hello-interval

{ { ipv6 pim hello-interval <interval> } | { no ipv6 pim hello-interval [<interval>] } }

Syntax Description

| | |
|-----------------|---|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 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

ipv6 pim isolate

[no] ipv6 pim isolate

Syntax Description

| | |
|---------|---|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| pim | PIM6 global configuration commands |
| isolate | Isolate this router from IPV6 PIM perspective |

Command Mode

- /exec/configure

ipv6 pim log-neighbor-changes

[no] ipv6 pim log-neighbor-changes

Syntax Description

| | |
|----------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| pim | PIM6 global configuration commands |
| log-neighbor-changes | Log up/down PIM6 neighbor transitions |

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 pim mtu

[no] ipv6 pim mtu <size>

Syntax Description

| | |
|-------------|---|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| pim | PIM6 global configuration commands |
| mtu | MTU for IP PIM6 packet |
| <i>size</i> | MTU |

Command Mode

- /exec/configure

ipv6 pim passive

ipv6 pim passive

{ ipv6 pim passive | no ipv6 pim passive }

Syntax Description

| | |
|---------|---|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| pim | PIM interface configuration commands |
| passive | Interface in passive mode. No send/recv |

Command Mode

- /exec/configure/if-igp

ipv6 pim register-rate-limit

{ { ipv6 pim register-rate-limit <rate> } | { no ipv6 pim register-rate-limit [<rate>] } }

Syntax Description

| | |
|---------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| pim | PIM6 global configuration commands |
| register-rate-limit | Rate limit for PIM6 data registers |
| <i>rate</i> | Packets per second |

Command Mode

- /exec/configure /exec/configure/vrf

■ **ipv6 pim rp-address**

ipv6 pim rp-address

```
{ { ipv6 pim rp-address <rp-address> [ group-list <prefix> | route-map <route-map-name> | prefix-list <prefix-list-name> ] [ bidir ] [ override ] } | { no ipv6 pim rp-address <rp-address> [ group-list <prefix> | route-map <route-map-name> | prefix-list <prefix-list-name> ] [ bidir ] [ override ] } }
```

Syntax Description

| | |
|-------------------------|--|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| pim | PIM6 global configuration commands |
| rp-address | Configure static RP for group range |
| group-list | (Optional) Group range for static RP |
| route-map | (Optional) Route Map policy for static RP |
| <i>route-map-name</i> | (Optional) Route-map name |
| prefix-list | (Optional) Prefix List policy for static RP |
| <i>prefix-list-name</i> | (Optional) Name of prefix-list |
| bidir | (Optional) Group range is treated in PIM6 bidirectional mode |
| override | (Optional) RP address will override the dynamically learnt RPs |

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 pim sparse-mode

ipv6 pim sparse-mode | no ipv6 pim [sparse-mode]

Syntax Description

| | |
|-------------|--|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| pim | PIM interface configuration commands |
| sparse-mode | Configures sparse-mode PIM6 on interface |

Command Mode

- /exec/configure/if-igp

ipv6 pim spt-switch-graceful

[no] ipv6 pim spt-switch-graceful

Syntax Description

| | |
|---------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| pim | PIM6 global configuration commands |
| spt-switch-graceful | Graceful switch-over to SPT |

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 pim state-limit

{ { ipv6 pim state-limit <max-states> [reserved <route-map-name> <max-reserved>] } | { no ipv6 pim state-limit [<max-states> [reserved <route-map-name> <max-reserved>]] } }

Syntax Description

| | |
|-----------------------|---|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| pim | PIM6 global configuration commands |
| state-limit | Configures State limit |
| <i>max-states</i> | Maximum (*,G)/(S,G) entries allowed in this VRF |
| reserved | (Optional) Configures Reserved limit |
| <i>route-map-name</i> | (Optional) Route-map name |
| <i>max-reserved</i> | (Optional) Maximum reserved (*,G)/(S,G) entries allowed in this VRF |

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 policy route-map

ipv6 policy route-map

ipv6 policy route-map <route-map-name> | no ipv6 policy route-map [<route-map-name> | <route-map-name>]

Syntax Description

| | |
|-----------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| policy | Configure PBR feature |
| route-map | Route-map for PBR |
| <i>route-map-name</i> | Route-map name |
| <i>route-map-name</i> | (Optional) Route-map name |
| <i>route-map-name</i> | (Optional) Known route-map name |

Command Mode

- /exec/configure/if-igp /exec/configure/if-vni/

ipv6 port traffic-filter

[no] ipv6 port traffic-filter <acl-ipv6-name> <inout>

Syntax Description

| | |
|----------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| port | Port policy |
| traffic-filter | Specify access control for packets |
| <i>acl-ipv6-name</i> | List name |
| <i>inout</i> | Traffic direction |

Command Mode

- /exec/configure/if-set-acl-l2

ipv6 prefix-list description

{ ipv6 prefix-list <ipv6-pfl-name> description <line> } | { no ipv6 prefix-list <ipv6-pfl-name> description }

Syntax Description

| | |
|----------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| prefix-list | Build a prefix list |
| <i>ipv6-pfl-name</i> | Name of prefix-list |
| <i>ipv6-pfl-name</i> | Known prefix-list name |
| description | Description of the IPv6 prefix list |
| <i>line</i> | IPv6 prefix-list description string |

Command Mode

- /exec/configure

ipv6 prefix-list permit

```
{ ipv6 prefix-list <ipv6-pfl-name> [ seq <seq> ] { permit | deny } <prefix> { [ eq <equal> ] | [ ge <greater> ] [ le <lesser> ] } [ mask <mask> ] } | { no ipv6 prefix-list { <ipv6-pfl-name> | <ipv6-pfl-name> } [ seq <seq> ] [ { permit | deny } <prefix> { [ eq <equal> ] | [ ge <greater> ] [ le <lesser> ] } [ mask <mask> ] ] }
```

Syntax Description

| | |
|----------------------|--|
| no | Negate a command or set its defaults |
| 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 | (Optional) Sequence number of an entry |
| <i>seq</i> | (Optional) 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 |
| mask | (Optional) Explicit match mask |

Command Mode

- /exec/configure

ipv6 queue-packets

[no] ipv6 queue-packets

Syntax Description

| | |
|---------------|---|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| queue-packets | Queue 1 packet when triggered NS is sent |

Command Mode

- /exec/configure

ipv6 redirect syslog

ipv6 redirect syslog [<logInterval>] | no ipv6 redirect syslog

Syntax Description

| | |
|--------------------|--|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| redirect | ipv6 redirect feature |
| syslog | syslog for ipv6 redirect |
| <i>logInterval</i> | (Optional) Syslog interval in seconds (default=60) |

Command Mode

- /exec/configure

ipv6 redirects

ipv6 [nd] redirects | no ipv6 [nd] redirects

Syntax Description

| | |
|-----------|---|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| nd | (Optional) ICMPv6 Neighbor Discovery commands |
| redirects | Enable sending ICMPv6 Redirect messages |

Command Mode

- /exec/configure/if-igp /exec/configure/if-mgmt-config

ipv6 route

```
[no] ipv6 route <ipv6-prefix> { <interface> | { { <link-local><interface-link-local> } | { <pin-interface><next-hop> } | { <next-hop> | <nh-prefix> } | { <vlan-interface> } } [ vrf { <vrf-name> | <vrf-known-name> } ] } [ track <object-num> ] [ name <rt-name> ] [ <pref> | tag <tag-value> ] +
```

Syntax Description

| | |
|-----------------------------|--|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| route | Configure IPv6 unicast static route |
| <i>interface</i> | Interface for interface static routes |
| <i>vlan-interface</i> | vlan interface |
| <i>name</i> | (Optional) Specify name of the next hop |
| <i>rt-name</i> | (Optional) Name of next hop |
| <i>pin-interface</i> | Pin interface |
| <i>interface-link-local</i> | Interface for interface static routes |
| track | (Optional) Specify the Object to be Tracked |
| <i>object-num</i> | (Optional) Track Object Number |
| vrf | (Optional) VRF for next-hop if different from this vrf |
| <i>vrf-name</i> | (Optional) VRF name |
| <i>vrf-known-name</i> | (Optional) Known VRF name |
| <i>pref</i> | (Optional) Route preference |
| tag | (Optional) Supply tag value with static route |
| <i>tag-value</i> | (Optional) 32-bit value for tag |

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 route static bfd

[no] ipv6 route static bfd <pin-interface> <next-hop>

Syntax Description

| | |
|----------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IP features |
| route | Route information |
| static | Static route based configuration |
| bfd | Enable bfd detection on static route |
| <i>pin-interface</i> | Interface on which bfd has to be enabled |

Command Mode

- /exec/configure /exec/configure/config-mgmt /exec/configure/vrf

ipv6 router isis

[no] ipv6 router isis <tag>

Syntax Description

| | |
|------------|--|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| router | Enable a routing process |
| isis | Intermediate System to Intermediate System (IS-IS) |
| <i>tag</i> | Process tag |

Command Mode

- /exec/configure/if-igp

ipv6 router ospfv3 area

[no] ipv6 router ospfv3 <tag> area { <area-id-ip> | <area-id-int> } [secondaries none]

Syntax Description

| | |
|--------------------|--|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| router | Enable a routing process |
| ospfv3 | OSPFv3 configuration commands |
| <i>tag</i> | Process tag |
| area | Area associated with interface |
| <i>area-id-ip</i> | OSPFv3 area ID in IP address format |
| <i>area-id-int</i> | OSPFv3 area ID as a decimal format |
| secondaries | (Optional) Do not include secondary IPv6 addresses |
| none | (Optional) Do not include secondary IPv6 addresses |

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel
/exec/configure/if-mgmt-config

ipv6 router ospfv3 multi-area

[no] ipv6 router ospfv3 [<tag>] multi-area <area-id-ip>

Syntax Description

| | |
|-------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| router | Enable a routing process |
| ospfv3 | OSPFv3 configuration commands |
| <i>tag</i> | (Optional) Process tag |
| multi-area | Multi-Area associated with interface |
| <i>area-id-ip</i> | Area Id as an integer or ip address |

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel
/exec/configure/if-mgmt-config

ipv6 routing multicast holddown

[no] { ipv6 } routing multicast holddown [<route-holddown-sec> | [disable-init-phase]]

Syntax Description

| | |
|---------------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Display IPv6 information |
| routing | Configure routing information |
| multicast | Configure multicast |
| holddown | Initial holddown period |
| <i>route-holddown-sec</i> | (Optional) Delay in seconds [70..3600], 0 to disable holddown |
| disable-init-phase | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |

Command Mode

- /exec/configure

ipv6 routing multicast mfdm-buffer-route-count

ipv6 routing multicast mfdm-buffer-route-count { <size> } | no ipv6 routing multicast mfdm-buffer-route-count [<size>]

Syntax Description

| | |
|-------------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| ipv6 | Configure IP features |
| routing | Configure routing information |
| multicast | Configure multicast |
| mfdm-buffer-route-count | mfdm buffer route size |
| <i>size</i> | size in numbers |

Command Mode

- /exec/configure

ipv6 routing multicast software-replicate

[no] ipv6 routing multicast software-replicate [iif] [fabric]

Syntax Description

| | |
|--------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| routing | Configure routing information |
| multicast | Configure multicast |
| software-replicate | Enable software replication of PIM ASM leak packets |
| fabric | (Optional) Enable software replication to fabric |
| iif | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |

Command Mode

- /exec/configure

ipv6 snooping

[no] ipv6 snooping [attach-policy <policy_name>]

Syntax Description

| | |
|--------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| <i>policy_name</i> | (Optional) policy name for ipv6 snooping |

Command Mode

- /exec/configure/if-switching

ipv6 snooping

[no] ipv6 snooping [attach-policy <policy_name>]

Syntax Description

| | |
|--------------------|---|
| no | (Optional) Negate a command or set its defaults |
| <i>policy_name</i> | (Optional) policy name for ipv6 snooping |

Command Mode

- /exec/configure/vlan-config

ipv6 snooping policy

[no] ipv6 snooping policy <name>

Syntax Description

| | |
|-------------|---|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| <i>name</i> | Name of the snooping policy |

Command Mode

- /exec/configure

```
■ ipv6 snooping unit-test bt-add vlan
```

ipv6 snooping unit-test bt-add vlan

{ ipv6 snooping unit-test bt-add vlan <vlanid>

Syntax Description

| | |
|---------------|-------------------------|
| ipv6 | Configure IPv6 features |
| <i>vlanid</i> | Number of entries |

Command Mode

- /exec/configure

ipv6 switch-packets

[no] ipv6 switch-packets [lla]

Syntax Description

| | |
|----------------|---|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| switch-packets | Switch ND packets received on core ports |
| lla | (Optional) Switch ND packets targeted to Link local address on core ports |

Command Mode

- /exec/configure

ipv6 traffic-filter

[no] ipv6 traffic-filter <acl-ipv6-name> <inout>

Syntax Description

| | |
|----------------------|---|
| no | (Optional) Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| traffic-filter | Specify access control for packets |
| <i>acl-ipv6-name</i> | List name |
| <i>inout</i> | Traffic direction |

Command Mode

- /exec/configure/if-set-acl-l3

ipv6 unreachables

[no] ipv6 [icmp] unreachables

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 [allow vni-hosts] | any [allow-default] }] | ipv6 verify unicast source reachable-via { rx [allow vni-hosts] | any [allow-default] }

Syntax Description

| | |
|---------------|---|
| no | Negate a command or set its defaults |
| ipv6 | Configure IPv6 features |
| verify | Unicast Reverse Path Forwarding |
| unicast | Unicast Reverse Path Forwarding |
| source | Validation of source address |
| reachable-via | Specify reachability check to apply to the source address |
| rx | (Optional) Source is reachable via interface on which packet was received |
| allow | (Optional) More options |
| vni-hosts | (Optional) Source is reachable via interface vlan |
| any | (Optional) Source is reachable via any interface |
| allow-default | (Optional) Loose Default Route Unicast Reverse Path Forwarding |

Command Mode

- /exec/configure/if-igp

is-type

is-type <is-type> | no is-type [<is-type>]

Syntax Description

| | |
|----------------|--------------------------------------|
| no | Negate a command or set its defaults |
| is-type | IS type for this IS-IS process |
| <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

ishow cli find nodes [<component>] [recurse]

Syntax Description

| | |
|------------------|---------------------------|
| ishow | Show internal information |
| cli | Show CLI information |
| find | |
| nodes | display |
| <i>component</i> | (Optional) display |
| recurse | (Optional) go |

Command Mode

- /exec

ishow cli modes

ishow cli modes

Syntax Description

| | |
|-------|---------------------------|
| ishow | Show internal information |
| cli | Show CLI information |
| modes | show |

Command Mode

- /exec

ishow cli nodes

ishow cli nodes [<mode>]

Syntax Description

| | |
|-------------|---------------------------|
| ishow | Show internal information |
| cli | Show CLI information |
| nodes | show |
| <i>mode</i> | (Optional) mode |

Command Mode

- /exec

ishow cli paths

ishow cli paths <component> [<type>]

Syntax Description

| | |
|------------------|---------------------------|
| ishow | Show internal information |
| cli | Show CLI information |
| paths | show |
| <i>component</i> | component |
| <i>type</i> | (Optional) |

Command Mode

- /exec

ishow cli tags

ishow cli tags

Syntax Description

| | |
|-------|---------------------------|
| ishow | Show internal information |
| cli | Show CLI information |
| tags | |

Command Mode

- /exec

ishow core backtrace

ishow core <pid> backtrace

Syntax Description

| | |
|------------|---|
| ishow | Show internal information |
| core | display info from core file |
| <i>pid</i> | PID from 'show cores' |
| backtrace | display backtrace -- needs enough space to unzip the core file! |

Command Mode

- /exec

isis authentication-check

isis authentication-check

[no] isis authentication-check

Syntax Description

| | |
|----------------------|---|
| no | (Optional) Negate a command or set its defaults |
| isis | IS-IS configuration commands |
| authentication-check | Check authentication on received hellos |

Command Mode

- /exec/configure/if-igp

isis authentication-check level-1

[no] isis authentication-check level-1

Syntax Description

| | |
|----------------------|---|
| no | (Optional) Negate a command or set its defaults |
| isis | IS-IS configuration commands |
| authentication-check | Check authentication on received hellos |
| level-1 | Configure authentication check for level-1 IIHs |

Command Mode

- /exec/configure/if-igp

isis authentication-check level-2

[no] isis authentication-check level-2

Syntax Description

| | |
|----------------------|---|
| no | (Optional) Negate a command or set its defaults |
| isis | IS-IS configuration commands |
| authentication-check | Check authentication on received hellos |
| level-2 | Configure authentication check for level-2 IIHs |

Command Mode

- /exec/configure/if-igp

isis authentication-type cleartext

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

Syntax Description

| | |
|---------------------|---|
| no | (Optional) Negate a command or set its defaults |
| isis | IS-IS configuration commands |
| authentication-type | Set hello authentication type |
| cleartext | Cleartext |
| md5 | HMAC-MD5 |

Command Mode

- /exec/configure/if-igp

```
isis authentication-type cleartext level-1
```

isis authentication-type cleartext level-1

[no] isis authentication-type { cleartext | md5 } level-1

Syntax Description

| | |
|---------------------|---|
| no | (Optional) Negate a command or set its defaults |
| isis | IS-IS configuration commands |
| authentication-type | Set hello authentication type |
| cleartext | Cleartext |
| md5 | HMAC-MD5 |
| level-1 | Specify authentication type for level-1 IIHs |

Command Mode

- /exec/configure/if-igp

isis authentication-type cleartext level-2

[no] isis authentication-type { cleartext | md5 } level-2

Syntax Description

| | |
|---------------------|---|
| no | (Optional) Negate a command or set its defaults |
| isis | IS-IS configuration commands |
| authentication-type | Set hello authentication type |
| cleartext | Cleartext |
| md5 | HMAC-MD5 |
| level-2 | Specify authentication type for level-2 IIHs |

Command Mode

- /exec/configure/if-igp

isis authentication key-chain

isis authentication key-chain

[no] isis authentication key-chain <auth-keychain>

Syntax Description

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

Command Mode

- /exec/configure/if-igp

isis authentication key-chain level-1

[no] isis authentication key-chain <auth-keychain> level-1

Syntax Description

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

Command Mode

- /exec/configure/if-igp

isis authentication key-chain level-2

isis authentication key-chain level-2

[no] isis authentication key-chain <auth-keychain> level-2

Syntax Description

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

Command Mode

- /exec/configure/if-igp

isis bfd

[no] isis bfd [disable]

Syntax Description

| | |
|---------|---|
| no | (Optional) Negate a command or set its defaults |
| isis | IS-IS configuration commands |
| bfd | Interface BFD configuration |
| disable | (Optional) Disable BFD on interface |

Command Mode

- /exec/configure/if-igp

isis circuit-type

isis circuit-type <circuit-type> | no isis circuit-type [<circuit-type>]

Syntax Description

| | |
|---------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| isis | IS-IS configuration commands |
| circuit-type | Configure circuit type for interface |
| <i>circuit-type</i> | IS-IS circuit type |
| <i>isis</i> | |

Command Mode

- /exec/configure/if-igp

isis csnp-interval level

[no] isis csnp-interval <sec> { level-1 | level-2 }

Syntax Description

| | |
|---------------|---|
| no | (Optional) Negate a command or set its defaults |
| isis | IS-IS configuration commands |
| csnp-interval | Set CSNP interval in seconds |
| <i>sec</i> | CSNP interval value |
| level-1 | Specify interval for level-1 CSNPs |
| level-2 | Specify interval for level-2 CSNPs |

Command Mode

- /exec/configure/if-igp

isis hello-interval

isis hello-interval

[no] isis hello-interval <sec>

Syntax Description

| | |
|----------------|---|
| no | (Optional) Negate a command or set its defaults |
| isis | IS-IS configuration commands |
| hello-interval | Set Hello interval in seconds |
| <i>sec</i> | Hello interval value |

Command Mode

- /exec/configure/if-igp

isis hello-interval level

[no] isis hello-interval <sec> { level-1 | level-2 }

Syntax Description

| | |
|----------------|---|
| no | (Optional) Negate a command or set its defaults |
| isis | IS-IS configuration commands |
| hello-interval | Set Hello interval in seconds |
| <i>sec</i> | Hello interval value |
| level-1 | Specify hello-interval for level-1 IIHs |
| level-2 | Specify hello-interval for level-2 IIHs |

Command Mode

- /exec/configure/if-igp

isis hello-multiplier

isis hello-multiplier

[no] isis hello-multiplier <multi>

Syntax Description

| | |
|------------------|---|
| no | (Optional) Negate a command or set its defaults |
| isis | IS-IS configuration commands |
| hello-multiplier | Set multiplier for Hello holding time |
| <i>multi</i> | Hello multiplier value |

Command Mode

- /exec/configure/if-igp

isis hello-multiplier level

[no] isis hello-multiplier <multi> { level-1 | level-2 }

Syntax Description

| | |
|------------------|---|
| no | (Optional) Negate a command or set its defaults |
| isis | IS-IS configuration commands |
| hello-multiplier | Set multiplier for Hello holding time |
| <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-igp

isis hello-padding

isis hello-padding

{ isis hello-padding | no isis hello-padding [always] }

Syntax Description

| | |
|---------------|--------------------------------------|
| no | Negate a command or set its defaults |
| isis | IS-IS configuration commands |
| hello-padding | Pad IS-IS hello PDUs to full MTU |
| always | (Optional) Pad every hello |

Command Mode

- /exec/configure/if-igp

isis ipv6 bfd

[no] isis ipv6 bfd [disable]

Syntax Description

| | |
|---------|---|
| no | (Optional) Negate a command or set its defaults |
| isis | IS-IS configuration commands |
| ipv6 | Enable BFD for ipv6 |
| bfd | Interface BFD configuration |
| disable | (Optional) Disable BFD on interface |

Command Mode

- /exec/configure/if-igp

isis ipv6 metric level-1

[no] isis ipv6 metric <metric> level-1

Syntax Description

| | |
|---------------|---|
| no | (Optional) Negate a command or set its defaults |
| isis | IS-IS configuration commands |
| metric | Configure metric for IPV6 topology |
| ipv6 | Configure metric for IPV6 topology |
| <i>metric</i> | Default metric |
| level-1 | Apply metric to level-1 links |

Command Mode

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

isis ipv6 metric level-2

[no] isis ipv6 metric <metric> level-2

Syntax Description

| | |
|---------------|---|
| no | (Optional) Negate a command or set its defaults |
| isis | IS-IS configuration commands |
| metric | Configure metric for IPV6 topology |
| ipv6 | Configure metric for IPV6 topology |
| <i>metric</i> | Default metric |
| level-2 | Apply metric to level-2 links |

Command Mode

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

isis lsp-interval

[no] isis lsp-interval <msec>

Syntax Description

| | |
|--------------|---|
| no | (Optional) Negate a command or set its defaults |
| isis | IS-IS configuration commands |
| lsp-interval | Set LSP transmission interval |
| <i>msec</i> | LSP transmission interval (milliseconds) |

Command Mode

- /exec/configure/if-igp

isis mesh-group

```
{ isis mesh-group { blocked | <mesh-id> } | no isis mesh-group [ { blocked | <mesh-id> } ] }
```

Syntax Description

| | |
|----------------|--------------------------------------|
| no | Negate a command or set its defaults |
| isis | IS-IS configuration commands |
| mesh-group | Set IS-IS mesh group |
| <i>mesh-id</i> | Mesh group number |
| blocked | Block LSPs on this interface |

Command Mode

- /exec/configure/if-igp

isis metric level-1

[no] isis metric <metric> level-1

Syntax Description

| | |
|---------------|---|
| no | (Optional) Negate a command or set its defaults |
| isis | IS-IS configuration commands |
| metric | Configure the metric for interface |
| <i>metric</i> | Default metric |
| level-1 | Apply metric to level-1 links |

Command Mode

- /exec/configure/if-igp /exec/configure/if-mpls-tunnel

isis metric level-2

[no] isis metric <metric> level-2

Syntax Description

| | |
|---------------|---|
| no | (Optional) Negate a command or set its defaults |
| isis | IS-IS configuration commands |
| metric | Configure the metric for interface |
| <i>metric</i> | Default metric |
| level-2 | Apply metric to level-2 links |

Command Mode

- /exec/configure/if-igp /exec/configure/if-mpls-tunnel

isis mtu-check

isis mtu-check

[no] isis mtu-check

Syntax Description

| | |
|-----------|---|
| no | (Optional) Negate a command or set its defaults |
| isis | IS-IS configuration commands |
| mtu-check | Check mtu on received hellos, if its padded |

Command Mode

- /exec/configure/if-igp

isis mtu-check level-1

[no] isis mtu-check level-1

Syntax Description

| | |
|-----------|---|
| no | (Optional) Negate a command or set its defaults |
| isis | IS-IS configuration commands |
| mtu-check | Check mtu on received hellos, if its padded |
| level-1 | Configure mtu-check for level-1 |

Command Mode

- /exec/configure/if-igp

isis mtu-check level-2

[no] isis mtu-check level-2

Syntax Description

| | |
|-----------|---|
| no | (Optional) Negate a command or set its defaults |
| isis | IS-IS configuration commands |
| mtu-check | Check mtu on received hellos, if its padded |
| level-2 | Configure mtu-check for level-2 |

Command Mode

- /exec/configure/if-igp

isis network point-to-point

[no] isis network point-to-point [use-allIS-mac]

Syntax Description

| | |
|----------------|---|
| no | (Optional) Negate a command or set its defaults |
| isis | IS-IS configuration commands |
| network | Change interface medium to p2p |
| point-to-point | Change interface medium to p2p |
| use-allIS-mac | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |

Command Mode

- /exec/configure/if-igp /exec/configure/if-mpls-tunnel

isis passive-interface

isis passive-interface

isis passive-interface <level> | no isis passive-interface <level> | default isis passive-interface [<levelObsolete>]

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>levelObsolete</i> | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |

Command Mode

- /exec/configure/if-igp

isis prefix-attributes n-flag-clear

[no] isis prefix-attributes n-flag-clear

Syntax Description

| | |
|-------------------|---|
| no | (Optional) Negate a command or set its defaults |
| isis | IS-IS configuration commands |
| prefix-attributes | Segment routing attribute |
| n-flag-clear | Clear N flag for prefix |

Command Mode

- /exec/configure/if-igp

isis priority level

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

Syntax Description

| | |
|-----------------|---|
| no | (Optional) Negate a command or set its defaults |
| isis | IS-IS configuration commands |
| priority | Set priority for DIS election |
| <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-igp

isis retransmit-interval

[no] isis retransmit-interval <sec>

Syntax Description

| | |
|---------------------|--|
| no | (Optional) Negate a command or set its defaults |
| isis | IS-IS configuration commands |
| retransmit-interval | Set per-LSP retransmission interval |
| <i>sec</i> | Interval between retransmissions of the same LSP (seconds) |

Command Mode

- /exec/configure/if-igp

isis retransmit-throttle-interval

[no] isis retransmit-throttle-interval <msec>

Syntax Description

| | |
|------------------------------|---|
| no | (Optional) Negate a command or set its defaults |
| isis | IS-IS configuration commands |
| retransmit-throttle-interval | Set interface LSP retransmission interval |
| <i>msec</i> | Delay between retransmitted LSPs (milliseconds) |

Command Mode

- /exec/configure/if-igp

isis shutdown

[no] isis shutdown

Syntax Description

| | |
|----------|--|
| no | (Optional) Negate a command or set its defaults |
| isis | IS-IS configuration commands |
| shutdown | Graceful shutdown IS-IS functionality on the interface |

Command Mode

- /exec/configure/if-igp

isis suppressed

isis suppressed

[no] isis suppressed

Syntax Description

| | |
|------------|---|
| no | (Optional) Negate a command or set its defaults |
| isis | IS-IS configuration commands |
| suppressed | Do not advertise connected prefixes of this interface |

Command Mode

- /exec/configure/if-igp

isolate

[no] isolate [include-local | route-map <rmap-name>]

Syntax Description

| | |
|------------------|--|
| no | (Optional) Negate a command or set its defaults |
| isolate | Withdraw remote BGP routes to isolate this router |
| include-local | (Optional) Withdraw both local and remote BGP routes |
| route-map | (Optional) Display routes matching the route-map |
| <i>rmap-name</i> | (Optional) Route-map name |

Command Mode

- /exec/configure/router-bgp

isolate

[no] isolate

Syntax Description

| | |
|---------|---|
| no | (Optional) Negate a command or set its defaults |
| isolate | Isolate this router from RIP perspective |

Command Mode

- /exec/configure/router-rip

isolate

[no] isolate

Syntax Description

| | |
|---------|---|
| no | (Optional) Negate a command or set its defaults |
| isolate | Isolate router, ISIS perspective (set overload) |

Command Mode

- /exec/configure/router-isis

isolate

[no] isolate

Syntax Description

| | |
|---------|---|
| no | (Optional) Negate a command or set its defaults |
| isolate | Isolate this router from OSPFV3 perspective |

Command Mode

- /exec/configure/router-ospf3

isolate

[no] isolate

Syntax Description

| | |
|---------|---|
| no | (Optional) Negate a command or set its defaults |
| isolate | Isolate this router from EIGRP perspective |

Command Mode

- /exec/configure/router-eigrp

isolate

[no] isolate

Syntax Description

| | |
|---------|---|
| no | (Optional) Negate a command or set its defaults |
| isolate | Isolate this router from OSPF perspective |

Command Mode

- /exec/configure/router-ospf

itd

{ itd <service-name> } | { no itd <service-name> }

Syntax Description

| | |
|---------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| itd | ITD service |
| <i>service-name</i> | ITD service-name |

Command Mode

- /exec/configure

itd device-group

itd device-group

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

Syntax Description

| | |
|-----------------|--------------------------------------|
| no | Negate a command or set its defaults |
| itd | ITD service |
| device-group | ITD device group |
| <i>svc-name</i> | service-name |

Command Mode

- /exec/configure

itd port-group

{ itd port-group <svc-name> } | { no itd port-group <svc-name> }

Syntax Description

| | |
|-----------------|--------------------------------------|
| no | Negate a command or set its defaults |
| itd | ITD service |
| port-group | port group |
| <i>svc-name</i> | service-name |

Command Mode

- /exec/configure

itd session access-list refresh

itd session access-list refresh

itd session access-list <acl-name> refresh

Syntax Description

| | |
|-----------------|---|
| itd | ITD service |
| session | ITD session |
| access-list | ITD include access-list |
| <i>acl-name</i> | acl-name |
| refresh | Refresh ITD policies based on access-list changes |

Command Mode

- /exec/configure

itd session device-group

{ itd session device-group <svc-name> } | { no itd session device-group <svc-name> }

Syntax Description

| | |
|-----------------|--------------------------------------|
| no | Negate a command or set its defaults |
| itd | ITD service |
| session | ITD session |
| device-group | ITD device group |
| <i>svc-name</i> | service-name |

Command Mode

- /exec/configure

itd statistics

{ itd statistics <service-name> } | { no itd statistics <service-name> }

Syntax Description

| | |
|---------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| itd | ITD service |
| statistics | ITD statistics |
| <i>service-name</i> | ITD service-name |

Command Mode

- /exec/configure

itu channel

itu channel <itu_channel_val> | no itu channel [<itu_channel_val>]

Syntax Description

| | |
|------------------------|--|
| no | Negate a command or set its defaults |
| itu | Configure itu_channel for the DWDM SFP |
| channel | Configure itu_channel for the DWDM SFP |
| <i>itu_channel_val</i> | Enter itu channel |

Command Mode

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

