



M Commands

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m2rib debug log-size transactions

```
m2rib debug log-size transactions { { received | u2rib | mfdm | pixm | eltm } [ error-log ] | announced } {
<size> | small | medium | large } <size_bytes>
```

Syntax Description

| | |
|-------------------|-----------------------------------------------------------------------|
| m2rib | Configure m2rib |
| debug | Configure m2rib debug |
| log-size | Set log sizes |
| transactions | Set transaction log sizes |
| received | Set received transaction log size |
| announced | Set announced transaction log size |
| u2rib | Set U2RIB transaction log size |
| mfdm | Set MFDM transaction log size |
| pixm | Set PIXM transaction log size |
| eltn | Set ELTM transaction log size |
| error-log | (Optional) errors only log |
| <i>size</i> | Size in number of transactions |
| small | Set number of transactions default small log size (0 disables limits) |
| medium | Set number of transactions default medium log size |
| large | Set number of transactions default large log size |
| <i>size_bytes</i> | Max log size in number of bytes |

Command Mode

- /exec/configure

mac-addr

```
{ mac-addr <dstmac> <smac> [ dot1q <dot1q-id> ] }
```

Syntax Description

| | |
|-----------------|--------------------------------------------------------------|
| mac-addr | Mac |
| <i>dstmac</i> | Destination mac address |
| <i>smac</i> | Source mac address |
| dot1q | (Optional) Encapsulation dot1q/bd |
| <i>dot1q-id</i> | (Optional) Encapsulation dot1q/bd on which the mac is learnt |

Command Mode

- /exec/configure/configngoamccpayload

mac-address

mac-address <mac_address_val> | no mac-address [<mac_address_val>]

Syntax Description

| | |
|------------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| mac-address | Configure interface mac address (1) |
| <i>mac_address_val</i> | Static Router MAC address (1) |

Command Mode

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

mac-address

mac-address { <macaddr> } | no mac-address

Syntax Description

| | |
|----------------|--------------------------------------|
| no | Negate a command or set its defaults |
| mac-address | MAC address |
| <i>macaddr</i> | MAC address |

Command Mode

- /exec/configure/dyn-loadbalancing

mac-address

mac-address <macaddress> | no mac-address [<macaddress>]

Syntax Description

| | |
|-------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| mac-address | Virtual MAC address |
| <i>macaddress</i> | MAC address(FORMAT:xxxx.xxxx.xxxx) |

Command Mode

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

mac-address

mac-address <mac-addr> | no mac-address

Syntax Description

| | |
|-----------------|--------------------------------------|
| no | Negate a command or set its defaults |
| mac-address | Manually set interface MAC address |
| <i>mac-addr</i> | MAC address |

Command Mode

- /exec/configure/if-vlan-common

mac-address bpdu source version 2

[no] mac-address bpdu source version 2

Syntax Description

| | |
|-------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mac-address | change vpc mac address |
| bpdu | bpdu |
| source | source |
| version | version |
| 2 | use version 2 bpdu source mac-address |

Command Mode

- /exec/configure/vpc-domain

mac-address destination

{ mac-address { destination | source } <addr> } | { no mac-address { destination | source } }

Syntax Description

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

Command Mode

- /exec/configure/configngoamprofileflow

mac-address ipv6-extract

mac-address ipv6-extract | no mac-address ipv6-extract

Syntax Description

| | |
|--------------|---------------------------------------------------------------------------|
| no | Negate a command or set its defaults |
| mac-address | Configure interface mac address (3) |
| ipv6-extract | Extract mac-address (3) from the IPv6 address configured on the interface |

Command Mode

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

mac-learn disable

mac-learn disable | no mac-learn disable

Syntax Description

| | |
|-----------|----------------------------------------------------------------------------------------------------------------|
| no | Negate a command or set its defaults |
| mac-learn | Mac Learning disable/enable |
| disable | Mac Learning disable to use switch as a HUB. Do a clear mac address-table dynamic after disabling mac learning |

Command Mode

- /exec/configure

mac-learn disable

mac-learn disable | no mac-learn disable

Syntax Description

| | |
|-----------|--------------------------------------|
| no | Negate a command or set its defaults |
| mac-learn | Mac Learning disable/enable on vlan |
| disable | Mac Learning disable on vlan |

Command Mode

- /exec/configure/vlan-config

mac-learn vlan

mac-learn vlan <id> | no mac-learn vlan <id>

Syntax Description

| | |
|-----------|---------------------------------------------------------------------------------------------------------------|
| no | Negate a command or set its defaults |
| mac-learn | Mac Learning disable/enable |
| vlan | Enable / Disable MAC learn on VLAN. Do 'clear mac address-table dynamic vlan <arg>' after disabling mac learn |
| <i>id</i> | List of VLAN ids |

Command Mode

- /exec/configure

mac-list permit

```
{ mac-list <maclist-name> [ seq <seq> ] { permit | deny } <mac-addr> [ <mac-mask> ] } | { no mac-list { <maclist-name> | <maclist-name> } [ seq <seq> ] [ { permit | deny } <mac-addr> [ <mac-mask> ] ] }
```

Syntax Description

| | |
|---------------------|-----------------------------------------------------|
| no | Negate a command or set its defaults |
| mac-list | Build a mac list |
| <i>maclist-name</i> | Name of mac-list |
| <i>maclist-name</i> | Name of mac-list |
| <i>maclist-name</i> | Known mac-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>mac-addr</i> | MAC address |
| <i>mac-mask</i> | (Optional) MAC Mask. Default Mask is ffff.ffff.ffff |

Command Mode

- /exec/configure

mac-move policy

mac-move policy { [move-threshold <thresh> detect-intvl <d_intvl> hold-intvl <h_intvl>] } | no mac-move policy

Syntax Description

| | |
|----------------|-----------------------------------------|
| no | Negate a command |
| mac-move | Track individual MAC moves |
| policy | Policy parameters |
| move-threshold | (Optional) Max allowed moves |
| <i>thresh</i> | (Optional) Max allowed moves |
| detect-intvl | (Optional) Interval to track moves |
| <i>d_intvl</i> | (Optional) Interval to track moves |
| hold-intvl | (Optional) Interval to disable learning |
| <i>h_intvl</i> | (Optional) Interval to disable learning |

Command Mode

- /exec/configure

mac access-list

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

Syntax Description

| | |
|---------------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mac | MAC configuration commands |
| access-list | Configure access list |
| <i>acl-mac-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

mac address-table aging-time

```
mac address-table aging-time { 0 | <seconds> } [ { vlan <vlan-id> } ] [ __readonly__ <info_str> ] | no mac
address-table aging-time [ [ 0 | <seconds> ] ]
```

Syntax Description

| | |
|-----------------|--------------------------------------|
| no | Negate a command or set its defaults |
| mac | MAC configuration commands |
| address-table | MAC Address Table |
| aging-time | Aging time |
| 0 | 0 disables aging |
| <i>seconds</i> | Aging time in seconds. |
| vlan | (Optional) VLAN |
| <i>vlan-id</i> | (Optional) VLAN ID |
| __readonly__ | (Optional) |
| <i>info_str</i> | (Optional) Information |

Command Mode

- /exec/configure

mac address-table guard-vpc-peergw-mac

[no] mac address-table guard-vpc-peergw-mac

Syntax Description

| | |
|----------------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mac | MAC configuration commands |
| address-table | MAC Address Table |
| guard-vpc-peergw-mac | Prevent vPC Peer gateway MAC Spoofing |

Command Mode

- /exec/configure

mac address-table limit

```
mac address-table limit { system | vlan <id> | interface <interface-name> } { <limitcount> } [ __readonly__
<info_str> ] | no mac address-table limit { system | vlan <id> | interface <interface-name> } [ <limitcount> ]
```

Syntax Description

| | |
|-----------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| mac | MAC configuration commands |
| address-table | MAC Address Table |
| limit | MAC Limit |
| system | System-wide |
| vlan | Configure dynamic MAC limit for VLAN |
| <i>id</i> | List of VLAN ids |
| interface | Interface |
| <i>interface-name</i> | Interface name |
| <i>limitcount</i> | Mac address limit count |
| __readonly__ | (Optional) |
| <i>info_str</i> | (Optional) Information |

Command Mode

- /exec/configure

mac address-table limit user-defined

mac address-table limit <value> user-defined | no mac address-table limit [<value>] user-defined

Syntax Description

| | |
|---------------|---------------------------------------------------------------------------|
| no | Negate a command or set its defaults |
| mac | MAC configuration commands |
| address-table | MAC Address Table |
| limit | MAC Limit |
| <i>value</i> | user-defined mac limit |
| user-defined | limit the number of unique mac addresses used on any type of L3 interface |

Command Mode

- /exec/configure

mac address-table loop-detect nve port-down

mac address-table loop-detect nve port-down | no mac address-table loop-detect nve port-down

Syntax Description

| | |
|---------------|----------------------------------------------|
| no | Negate a command |
| mac | MAC configuration commands |
| address-table | MAC |
| loop-detect | Action for Mac loop detection |
| nve | Configure NVE information |
| port-down | Take port-down action for mac loop detection |

Command Mode

- /exec/configure

mac address-table loop-detect port-down

mac address-table loop-detect port-down | no mac address-table loop-detect port-down

Syntax Description

| | |
|---------------|----------------------------------------------|
| no | Negate a command or set its defaults |
| mac | MAC configuration commands |
| address-table | MAC |
| loop-detect | Action for Mac loop detection |
| port-down | Take port-down action for mac loop detection |

Command Mode

- /exec/configure

mac address-table multicast vlan interface

[no] mac address-table multicast <mac-address> { vlan <vlan> | bridge-domain <bdid> } interface [vsi] <interface>

Syntax Description

| | |
|--------------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mac | MAC configuration commands |
| address-table | MAC Address Table |
| multicast | mcast mac OIF Static Entry |
| <i>mac-address</i> | mcast MAC Address, not in Unicast IP Range |
| vlan | VLAN |
| <i>vlan</i> | VLAN |
| bridge-domain | BD |
| <i>bdid</i> | BD |
| interface | Interface |
| vsi | (Optional) Specify if this interface is a VSI |
| <i>interface</i> | Interface name |

Command Mode

- /exec/configure

mac address-table notification mac-move

mac address-table notification mac-move | no mac address-table notification mac-move

Syntax Description

| | |
|---------------|---------------------------------|
| no | Negate a command |
| mac | MAC configuration commands |
| address-table | MAC Address Table |
| notification | Notify of mac-move |
| mac-move | MAC move notification on syslog |

Command Mode

- /exec/configure

mac address-table notification threshold

mac address-table notification threshold [limit <percentage> interval <seconds>] | no mac address-table notification threshold

Syntax Description

| | |
|-------------------|--------------------------------------------------------------------------------|
| no | Negate a command |
| mac | MAC configuration commands |
| address-table | MAC Address Table |
| notification | Notify of mac-move |
| threshold | MAC Address Table threshold notification |
| limit | (Optional) Specify the percentage limit beyond which notifications are enabled |
| <i>percentage</i> | (Optional) Percentage of MAC Table Consumption |
| interval | (Optional) Minimum time in seconds between two notifications |
| <i>seconds</i> | (Optional) Interval time in seconds |

Command Mode

- /exec/configure

mac address-table static clear

mac address-table static clear | no mac address-table static clear

Syntax Description

| | |
|---------------|------------------------------------------------------------------|
| no | Negate a command or set its defaults |
| mac | MAC configuration commands |
| address-table | MAC Address Table |
| static | Static Entry |
| clear | clear the static mac entry when interface is moved to down state |

Command Mode

- /exec/configure

mac address-table static vlan interface

```
mac address-table static <mac-address> vlan <vlan-id> { interface <interface-name> | drop } [ auto-learn ] [
__readonly__ <info_str> ] | no mac address-table static <mac-address> vlan <vlan-id>
```

Syntax Description

| | |
|-----------------------|------------------------------------------|
| no | Negate a command or set its defaults |
| mac | MAC configuration commands |
| address-table | MAC Address Table |
| static | Static Entry |
| <i>mac-address</i> | MAC Address |
| vlan | VLAN |
| <i>vlan-id</i> | VLAN ID |
| interface | Interface |
| <i>interface-name</i> | Interface name |
| drop | Drop all traffic |
| auto-learn | (Optional) Allow moving this MAC address |
| __readonly__ | (Optional) |
| <i>info_str</i> | (Optional) Information |

Command Mode

- /exec/configure

mac address-table static vni

```
mac address-table static <mac-address> vni <vni-id>
```

Syntax Description

| | |
|--------------------|----------------------------|
| mac | MAC configuration commands |
| address-table | MAC Address Table |
| static | Static Entry |
| <i>mac-address</i> | MAC Address |
| vni | Virtual Network Identifier |
| <i>vni-id</i> | VNI ID |

Command Mode

- /exec/configure

mac address

[no] mac address { <macaddr> }

Syntax Description

| | |
|----------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mac | Configure vMAC address options for Pathway |
| address | Pathway will use a specified vMAC address |
| <i>macaddr</i> | 48-bit MAC address in HEX |

Command Mode

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

mac address inherit

mac address inherit

Syntax Description

| | |
|---------|--------------------------------------------|
| mac | Configure vMAC address options for Pathway |
| address | Pathway will use a specified vMAC address |
| inherit | Pathway will inherit vMAC |

Command Mode

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

mac advert interval

[no] mac advert interval | mac advert interval <macint>

Syntax Description

| | |
|---------------|----------------------------------------------------------|
| no | Negate a command or set its defaults |
| mac | Configure vMAC address options for Pathway |
| advert | Specify vMAC unsolicited advertisements |
| interval | Specify interval between vMAC unsolicited advertisements |
| <i>macint</i> | Advertisement Interval in seconds |

Command Mode

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

mac packet-classify

[no] mac packet-classify

Syntax Description

| | |
|-----------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mac | MAC configuration commands |
| packet-classify | Force mac classification of packets |

Command Mode

- /exec/configure/if-ethernet-switch /exec/configure/if-remote-ethernet-switch
/exec/configure/if-eth-port-channel-switch /exec/configure/if-ethernet-all

mac packet-classify

[no] mac packet-classify

Syntax Description

| | |
|-----------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mac | MAC |
| packet-classify | Force mac classification of packets |

Command Mode

- /exec/configure/vlan

mac port access-group

[no] mac port access-group <acl-mac-name>

Syntax Description

| | |
|---------------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mac | MAC configuration commands |
| port | Port policy |
| access-group | Specify access control for packets |
| <i>acl-mac-name</i> | List name |

Command Mode

- /exec/configure/if-set-acl-l2

mac vsan

[no] mac <mac0> vsan <i1>

Syntax Description

| | |
|-------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mac | FCoE Device MAC address |
| <i>mac0</i> | MAC of the Device |
| vsan | VSAN id for device |
| <i>i1</i> | vsan id |

Command Mode

- /exec/configure/dpvm-db

macsec eap

[no] macsec eap [policy <policy_name>]

Syntax Description

| | |
|--------------------|-----------------------------------------------------|
| macsec | Specify MKA keychain and MACsec policy |
| eap | key chain pki mode |
| policy | (Optional) policy |
| <i>policy_name</i> | (Optional) name of the policy specified as a string |

Command Mode

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

macsec keychain macsec keychain

```
[no] macsec keychain <keychain_name> [ policy <policy_name> ] [ fallback-keychain <fallback_kc_name>
] | [ no ] macsec keychain <keychain_name> [ fallback-keychain <fallback_kc_name> ] [ policy <policy_name>
]
```

Syntax Description

| | |
|-------------------------|------------------------------------------------------------|
| macsec | Specify MKA keychain and MACsec policy |
| keychain | key chain |
| <i>keychain_name</i> | name of the keychain specified as a string |
| policy | (Optional) policy |
| <i>policy_name</i> | (Optional) name of the policy specified as a string |
| fallback-keychain | (Optional) fallback keychain |
| <i>fallback_kc_name</i> | (Optional) Name of fallback keychain specified as a string |

Command Mode

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

macsec policy

[no] macsec policy <policy_name>

Syntax Description

| | |
|--------------------|-------------------------|
| macsec | Configure MACSEC |
| policy | Configure MACSEC policy |
| <i>policy_name</i> | Name of Policy |

Command Mode

- /exec/configure

macsec shutdown

[no] macsec shutdown

Syntax Description

| | |
|----------|---------------------------|
| macsec | Configure MACSEC |
| shutdown | shutdown / restart macsec |

Command Mode

- /exec/configure

managed-config-flag

[no] managed-config-flag <state>

Syntax Description

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

Command Mode

- /exec/configure/config-ra-guard

management

[no] management

Syntax Description

| | |
|------------|--------------------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| management | Allow in-band management access to VLAN Interface IP address |

Command Mode

- /exec/configure/if-vlan-common

map-notify-group

```
{ [ no ] map-notify-group { <addr> | <addr6> } }
```

Syntax Description

| | |
|------------------|---------------------------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| map-notify-group | Group address to send and receive site specific Map-Notify messages |
| <i>addr</i> | IPv4 group address |

Command Mode

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

map-server key

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

Syntax Description

| | |
|-------------|-----------------------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| map-server | To interact with Map-Server |
| <i>ms</i> | Address of IPv4 map-server |
| key-type | (Optional) Authentication key type, either sha1 or sha2 |
| sha1 | (Optional) Use sha1 authentication in Map-Register messages |
| sha2 | (Optional) Use sha2 authentication in Map-Register messages |
| key | Authentication key used with Map-Server |
| <i>key</i> | SHA-1 password key |
| proxy-reply | Request Map-Server to send Map-Replies on behalf of dynamic-EID |

Command Mode

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

marker-packet-n3500

[no] marker-packet-n3500 [<interval> | seconds <interval1> | milliseconds <interval2>]

Syntax Description

| | |
|---------------------|-------------------------------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| marker-packet-n3500 | Enable/Disable send marker packet |
| <i>interval</i> | (Optional) range between <1-4> second |
| seconds | (Optional) Configure interval in secs |
| <i>interval1</i> | (Optional) range between <1-4> second |
| milliseconds | (Optional) Interval in milli second. |
| <i>interval2</i> | (Optional) range between <100-900> msec, increments in multiples of 100 |

Command Mode

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

marker-packet

[no] marker-packet [<interval>]

Syntax Description

| | |
|-----------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| marker-packet | Enable/Disable send marker packet |
| <i>interval</i> | (Optional) |

Command Mode

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

match-address

[no] match-address

Syntax Description

| | |
|---------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| match-address | Match addresses in advertisement packets |

Command Mode

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

match

[no] match { ip address <acl-ip-name> | ipv6 address <acl-ipv6-name> | mac address <acl-mac-name> }

Syntax Description

| | |
|----------------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| match | Specify the match clause |
| ip | Display IP information |
| ipv6 | Display IPv6 information |
| mac | MAC configuration commands |
| address | Match an access list |
| <i>acl-mac-name</i> | List name |
| <i>acl-ip-name</i> | List name |
| <i>acl-ipv6-name</i> | List name |

Command Mode

- /exec/configure/vacl

match

[no] match { <ser-def-name> | all } [source-interface <vlans>]

Syntax Description

| | |
|---------------------|------------------------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| match | Specify service to match |
| <i>ser-def-name</i> | Service definition name |
| all | To match on all Service definitions |
| source-interface | (Optional) Specify source Vlans for services |
| <i>vlans</i> | (Optional) mDNS vlan number or vlan range, example: 1,3-5,7,9-11 |

Command Mode

- /exec/configure/mdns-sl-out

match

```
[no] match { { access-group name <acl-name> } | [ not ] { dscp [ tunnel ] { <dscp-list> | { <dscp-enum> } + } } | { { packet length <len-list> | ip rtp <port-list> } [ replace ] } | { cos <cos-list> } | { qos-group <qos-group-list> } | { precedence { <precedence-list> | { <prec-enum> } + } } | { protocol <protocol-enum> } | { mpls experimental topmost <exp-list> } | { ip roce <port-list> } } }
```

Syntax Description

| | |
|------------------------|-------------------------------------------------|
| <i>dscp-list</i> | <dscp-enum> |
| <i>cos-list</i> | |
| <i>precedence-list</i> | <prec-enum> |
| no | (Optional) Negate a command or set its defaults |
| replace | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| match | Classification criteria |
| not | (Optional) Negate this match result |
| access-group | Access group |
| name | Named Access List |
| <i>acl-name</i> | Access List name |
| dscp | DSCP in IP(v4) and IPv6 packets |
| tunnel | (Optional) match dscp in Outer header |
| <i>dscp-enum</i> | |
| cos | IEEE 802.1Q Class of Service |
| qos-group | Qos-group |
| <i>qos-group-list</i> | List of qos-group values |
| precedence | Precedence in IP(v4) and IPv6 packets |
| <i>prec-enum</i> | |
| protocol | Protocol |
| <i>protocol-enum</i> | |
| packet | Packet |
| length | Length of IP datagram |
| <i>len-list</i> | List of IP packet length |

| | |
|------------------|-------------------------------------|
| ip | IP |
| rtp | Real Time Protocol |
| <i>port-list</i> | UDP port list that are using RTP |
| mpls | Match on MPLS label |
| experimental | Match on MPLS Experimental label |
| topmost | Match on topmost MPLS label |
| ip | IP |
| roce | Roce protocol. port to be used 3804 |
| <i>port-list</i> | UDP port list that are using RoCE |
| <i>exp-list</i> | List of MPLS exp values |

Command Mode

- /exec/configure/class-map

match

```
[no] match { [ not ] { { discard-class <discard-class-list> } | { class-map <cmap-name> } } }
```

Syntax Description

| | |
|---------------------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| match | Classification criteria |
| not | (Optional) Negate this match result |
| discard-class | Discard class |
| <i>discard-class-list</i> | List of discard-class values |
| class-map | Class map |
| <i>cmap-name</i> | Match class-map name |

Command Mode

- /exec/configure/class-map

match

```
[no] match { { access-group name <acl-name> } | [ not ] { { cos <cos-value> } | any | { eth-src <mac_src>
<mac_src_wild> } | { eth-dest <mac_dest> <mac_dest_wild> } | { eth-type <eth-value> } | { vlan
<vlan-number> } | { ip-tos <tos-value> <tos-mask> } | { ip-protocol <ip-protocol-value> } | { ip-src-addr
<ip-s-addr> <ip-s-mask> } | { ip-dst-addr <ip-d-addr> <ip-d-mask> } | { tcp-src-port <tcp-src-port-addr> } |
{ tcp-dst-port <tcp-dst-port-addr> } | { udp-src-port <udp-src-port-addr> } | { udp-dst-port
<udp-dst-port-addr> } | { input-interface <ifnum> } | { ipv6-src-addr <ipv6-s-addr> <ipv6-s-mask> } | {
ipv6-dst-addr <ipv6-d-addr> <ipv6-d-mask> } | { ipv6-protocol <ipv6-protocol-value> } | { ipv6-flowlabel
<ipv6-flowlabel-value> } | { icmpv6-type <icmpv6-type-value> } | { icmpv6-code <icmpv6-code-value> } |
{ ipv4-dscp <ipv4-dscp-list> } | { ipv6-dscp <ipv6-dscp-list> } | { dscp { <dscp-list> | <dscp-enum> } + } |
{ precedence { <precedence-list> | <prec-enum> } + } | { discard-class <discard-class-list> } | { qos-group
<qos-group-list> } | { class-map <cmap-name-plc> } | { protocol <protocol-enum> } | { packet length <len-list>
} | { ip rtp <port-list> } | { mpls experimental topmost <exp-list> } } }
```

Syntax Description

| | |
|---------------------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| match | Classification criteria |
| not | (Optional) Negate this match result |
| access-group | Access group |
| name | Named Access List |
| <i>acl-name</i> | Access List name |
| cos | IEEE 802.1Q class of service |
| dscp | DSCP in IP(v4) and IPv6 packets |
| <i>dscp-list</i> | List of DSCP values |
| <i>dscp-enum</i> | |
| precedence | Precedence in IP(v4) and IPv6 packets |
| <i>precedence-list</i> | List of precedence values |
| <i>prec-enum</i> | |
| discard-class | Discard class |
| <i>discard-class-list</i> | List of discard-class values |
| qos-group | Qos-group |
| <i>qos-group-list</i> | List of qos-group values |
| class-map | Class map |
| <i>cmap-name-plc</i> | Match class-map name |

| | |
|----------------------|------------------------------------------|
| protocol | Protocol |
| <i>protocol-enum</i> | |
| packet | Packet |
| length | Length of IP datagram |
| <i>len-list</i> | list of IP packet length |
| ip | IP |
| rtp | Real Time Protocol |
| <i>port-list</i> | UDP port list that are using RTP |
| mpls | Match on MPLS label |
| experimental | Match on MPLS Experimental label |
| topmost | Match on topmost MPLS label |
| <i>exp-list</i> | List of MPLS exp values |
| any | Match on Any Filter |
| eth-dest | Match on Layer 2 destination MAC address |
| eth-src | Match on Layer 2 source MAC address |
| eth-type | Match on Ether type |
| vlan | Match on 802.1Q vlan |
| ip-tos | Match on IPv4 TOS |
| ip-protocol | Match on IP protocol |
| ip-src-addr | Match on IPv4 source address |
| ip-dst-addr | Match on IPv4 destination address |
| ipv6-src-addr | Match on IPv6 source address |
| ipv6-dst-addr | Match on IPv6 destination address |
| tcp-src-port | Match on TCP source port |
| tcp-dst-port | Match on TCP source port |
| udp-src-port | Match on UDP source port |
| udp-dst-port | Match on UDP source port |
| input-interface | Match on physical input interface |
| ipv6-protocol | Match on IPv6 Protocol Value |

| | |
|-----------------------------|-------------------------------------|
| <i>ipv6-flowlabel</i> | Match on IPv6 Flowlabel |
| <i>icmpv6-type</i> | Match on ICMPv6 Message Type |
| <i>icmpv6-code</i> | Match on ICMPv6 Message Code |
| <i>ipv4-dscp</i> | Match on DSCP for IPV4 Packets |
| <i>ipv6-dscp</i> | Match on DSCP for IPV6 Packets |
| <i>cos-value</i> | class of service Value |
| <i>mac_src</i> | Source MAC address |
| <i>mac_src_wild</i> | Source MAC mask |
| <i>mac_dest</i> | Destination MAC address |
| <i>mac_dest_wild</i> | Destination MAC mask |
| <i>eth-value</i> | Ethernet type |
| <i>vlan-number</i> | Vlan number |
| <i>tos-value</i> | IPv4 TOS |
| <i>tos-mask</i> | IPv4 TOS Mask for DSCP |
| <i>ip-protocol-value</i> | IPV4 protocol |
| <i>ip-s-addr</i> | IPV4 address in format a.b.c.d |
| <i>ip-d-addr</i> | IPV4 address in format a.b.c.d |
| <i>ip-s-mask</i> | IPV4 address Mask in format a.b.c.d |
| <i>ip-d-mask</i> | IPV4 address Mask in format a.b.c.d |
| <i>tcp-src-port-addr</i> | Transport layer port number |
| <i>tcp-dest-port-addr</i> | Transport layer port number |
| <i>udp-src-port-addr</i> | Transport layer port number |
| <i>udp-dest-port-addr</i> | Transport layer port number |
| <i>ifnum</i> | Physical interface Name and Number |
| <i>ipv6-protocol-value</i> | IPv6 Protocol Value |
| <i>ipv6-flowlabel-value</i> | IPv6 Flowlabel |
| <i>icmpv6-type-value</i> | ICMPv6 Message Type |
| <i>icmpv6-code-value</i> | ICMPv6 Message Code |
| <i>ipv4-dscp-list</i> | List of IPV4 DSCP values |

| | |
|-----------------------|--------------------------|
| <i>ipv6-dscp-list</i> | List of IPV6 DSCP values |
|-----------------------|--------------------------|

Command Mode

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

match access-group name

[no] match access-group name <acs-grp-name>

Syntax Description

| | |
|---------------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| match | Classification criteria |
| access-group | Match with given access group |
| name | Name of the access group |
| <i>acs-grp-name</i> | Match parameter for class-map |

Command Mode

- /exec/configure/cmap

match as-number

[no] match as-number [{ <asnum> | <asnum_range> } +] { <asnum_trail> | <asnum_range_trail> }

Syntax Description

| | |
|--------------------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| match | Match values from routing table |
| as-number | Match BGP peer AS number |
| <i>asnum</i> | (Optional) <AA4> , |
| <i>asnum_range</i> | (Optional) <AA4>-<AA4> , |
| <i>asnum_trail</i> | <AA4> , |
| <i>asnum_range_trail</i> | <AA4>-<AA4> , |

Command Mode

- /exec/configure/route-map

match as-number as-path-list

match as-number as-path-list <aspl-name> + | no match as-number as-path-list { <aspl-name> | <aspl-name> } +

Syntax Description

| | |
|------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| match | Match values from routing table |
| as-number | Match BGP peer AS number |
| as-path-list | AS-path access-list |
| <i>aspl-name</i> | AS path access list name |
| <i>aspl-name</i> | AS path access list name |
| <i>aspl-name</i> | Known as-path access-list name |

Command Mode

- /exec/configure/route-map

match as-path

match as-path <aspl-name> + | no match as-path { <aspl-name> | <aspl-name> } +

Syntax Description

| | |
|------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| match | Match values from routing table |
| as-path | Match BGP AS path list |
| <i>aspl-name</i> | AS path access list name |
| <i>aspl-name</i> | AS path access list name |
| <i>aspl-name</i> | Known as-path access-list name |

Command Mode

- /exec/configure/route-map

match class-map

[no] match class-map < cmap-name >

Syntax Description

| | |
|------------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| match | Classification criteria |
| class-map | Class map |
| <i>cmap-name</i> | class map name |

Command Mode

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

match community

[no] match community <name> + [exact-match]

Syntax Description

| | |
|-------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| match | Match values from routing table |
| community | Match BGP community list |
| <i>name</i> | Community list name |
| exact-match | (Optional) Do exact matching of communities |

Command Mode

- /exec/configure/route-map

match connected-endpoints vrf ipv4

[no] match connected-endpoints vrf { <vrf-name> | <vrf-known-name> } ipv4 <px>

Syntax Description

| | |
|-----------------------|------------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| match | Match criteria for ESG selector under security-group |
| connected-endpoints | Match connected endpoints |
| vrf | VRF name for connected endpoints |
| <i>vrf-name</i> | VRF name |
| <i>vrf-known-name</i> | Known VRF name |
| ipv4 | Match IPv4 connected endpoints |
| <i>px</i> | IPv4 prefix network/length (e.g., 35.0.0.0/8) |

Command Mode

- /exec/configure/security-group

match connected-endpoints vrf ipv6

[no] match connected-endpoints vrf { <vrf-name> | <vrf-known-name> } ipv6 <px>

Syntax Description

| | |
|-----------------------|------------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| match | Match criteria for ESG selector under security-group |
| connected-endpoints | Match connected endpoints |
| vrf | VRF name for connected endpoints |
| <i>vrf-name</i> | VRF name |
| <i>vrf-known-name</i> | Known VRF name |
| ipv6 | Match IPv6 connected endpoints |

Command Mode

- /exec/configure/security-group

match cos

[no] match cos <cos-list>

Syntax Description

| | |
|-----------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| match | Classification criteria |
| cos | IEEE 802.1Q class of service |
| <i>cos-list</i> | List of class-of-service values |

Command Mode

- /exec/configure/class-map/type/uf

match cos

[no] match cos <cos-list>

Syntax Description

| | |
|-----------------|-------------------------------------------------|
| <i>cos-list</i> | |
| no | (Optional) Negate a command or set its defaults |
| match | Classification criteria |
| cos | IEEE 802.1Q Class of Service |

Command Mode

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

match datalink

[no] match datalink { mac source-address | mac destination-address | ethertype | vlan }

Syntax Description

| | |
|---------------------|-------------------------------|
| match | Specify a key field |
| datalink | datalink (Layer 2) attributes |
| mac | MAC Address |
| source-address | Source MAC Address |
| destination-address | Destination MAC Address |
| ethertype | Ethertype |
| vlan | VLAN ID |

Command Mode

- /exec/configure/nfm-record

match datalink

[no] match datalink { mac source-address | mac destination-address | ethertype }

Syntax Description

| | |
|---------------------|-------------------------------|
| match | Specify a key field |
| datalink | datalink (Layer 2) attributes |
| mac | MAC Address |
| source-address | Source MAC Address |
| destination-address | Destination MAC Address |
| ethertype | Ethertype |

Command Mode

- /exec/configure/config-fte-record

match dscp

[no] match dscp { <dscp-list> } +

Syntax Description

| | |
|------------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| match | Classification criteria |
| dscp | DSCP in IP(v4) packets |
| <i>dscp-list</i> | List of DSCP values |

Command Mode

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

match dscp

[no] match dscp { <dscp-list> | <dscp-enum> } +

Syntax Description

| | |
|------------------|-------------------------------------------------|
| <i>dscp-list</i> | <dscp-enum> |
| no | (Optional) Negate a command or set its defaults |
| match | Classification criteria |
| dscp | DSCP in IP(v4) and IPv6 packets |
| <i>dscp-enum</i> | |

Command Mode

- /exec/configure/color-cmap

match evpn route-type

[no] match evpn route-type { 1 | 2 | 2-mac-only | 2-mac-ip | 3 | 4 | 5 | 6 } +

Syntax Description

| | |
|------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| match | Match values from routing table |
| evpn | Match BGP EVPN Routes |
| route-type | Match route type for evpn route |
| <i>l</i> | 1 |

Command Mode

- /exec/configure/route-map

match exception

```
[no] match exception { { { ip | ipv6 } { option | { icmp { redirect | unreachable } } | muncast } } | ttl-failure
| glean | mtu-failure | nat-flow | sflow | span | mvpn | vxlan-stp | { multicast { rpf-failure | sg-rpf-failure |
dest-miss | ipv6-rpf-failure | ipv6-sg-rpf-failure | ipv6-dest-miss } } }
```

Syntax Description

| | |
|---------------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| match | Classification criteria |
| exception | Match exception packets |
| ip | ipv4 match criteria |
| ipv6 | ipv6 match criteria |
| option | Match ip/ipv6 option exception packets |
| icmp | Icmp redirect packets |
| redirect | Send redirected packets back to sender |
| unreachable | Send unreachable packets back to sender |
| muncast | IP unicast packets with multicast MAC |
| ttl-failure | Failed in ttl |
| mtu-failure | mtu-failure |
| glean | Glean packets |
| multicast | multicast packets |
| rpf-failure | multicast rpf check failure |
| sg-rpf-failure | multicast sg rpf check failure |
| dest-miss | L3 multicast destination lookup failure |
| ipv6-rpf-failure | IPv6 multicast rpf check failure |
| ipv6-sg-rpf-failure | IPv6 multicast sg rpf check failure |
| ipv6-dest-miss | IPv6 L3 multicast destination lookup failure |
| nat-flow | ipv4 software nat flow packets |
| sflow | sflow packets |
| span | span packets |
| mvpn | mvpn |

| | |
|-----------|-----------|
| vxlan-stp | vxlan-stp |
|-----------|-----------|

Command Mode

- /exec/configure/cmap

match extcommunity

[no] match extcommunity <name> + [exact-match]

Syntax Description

| | |
|--------------|------------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| match | Match values from routing table |
| extcommunity | Match BGP community list |
| <i>name</i> | Extended Community list name |
| exact-match | (Optional) Do exact matching of extended communities |

Command Mode

- /exec/configure/route-map

match external-subnets vrf ipv4

[no] match external-subnets vrf { <vrf-name> | <vrf-known-name> } ipv4 <px>

Syntax Description

| | |
|-----------------------|------------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| match | Match criteria for ESG selector under security-group |
| external-subnets | Match external subnets |
| vrf | VRF name for external subnets |
| <i>vrf-name</i> | VRF name |
| <i>vrf-known-name</i> | Known VRF name |
| ipv4 | Match IPv4 external subnets |
| <i>px</i> | IPv4 prefix network/length (e.g., 35.0.0.0/8) |

Command Mode

- /exec/configure/security-group

match external-subnets vrf ipv6

[no] match external-subnets vrf { <vrf-name> | <vrf-known-name> } ipv6 <px>

Syntax Description

| | |
|-----------------------|------------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| match | Match criteria for ESG selector under security-group |
| external-subnets | Match external subnets |
| vrf | VRF name for external subnets |
| <i>vrf-name</i> | VRF name |
| <i>vrf-known-name</i> | Known VRF name |
| ipv6 | Match IPv6 external subnets |

Command Mode

- /exec/configure/security-group

match interface

[no] match interface <iface> +

Syntax Description

| | |
|--------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| match | Match values from routing table |
| interface | Match first hop interface of route |
| <i>iface</i> | Interface name |

Command Mode

- /exec/configure/route-map

match interface

[no] match interface <iface>

Syntax Description

| | |
|--------------|------------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| match | Match criteria for ESG selector under security-group |
| interface | match a specific interface |
| <i>iface</i> | Interface name |

Command Mode

- /exec/configure/security-group

match ip address

[no] match ip address <acl-name> [<traffic-action>] [vlan { <vlan-range> | all }]

Syntax Description

| | |
|-----------------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| match | Match entry for the service |
| ip | Configure IP features |
| address | Match criteria |
| <i>acl-name</i> | IP access-list name |
| vlan | (Optional) user vlans for the service chain |
| <i>vlan-range</i> | (Optional) range of vlans |
| all | (Optional) all vlans |
| <i>traffic-action</i> | (Optional) Action on traffic |

Command Mode

- /exec/configure/epbr-policy

match ip address

[no] match ip address <name> +

Syntax Description

| | |
|-------------|----------------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| match | Match values from routing table |
| ip | Configure IP features |
| address | Match address of route or match packet |
| <i>name</i> | IP access-list name (for use in route-maps for PBR only) |

Command Mode

- /exec/configure/route-map

match ip address

[no] match ip address <acl-name> [<traffic-action>] [vlan { <vlan-range> | all }]

Syntax Description

| | |
|-----------------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| match | Match entry for the service |
| ip | Configure IP features |
| address | Match criteria |
| <i>acl-name</i> | IP access-list name |
| vlan | (Optional) user vlans for the service chain |
| <i>vlan-range</i> | (Optional) range of vlans |
| all | (Optional) all vlans |
| <i>traffic-action</i> | (Optional) Action on traffic |

Command Mode

- /exec/configure/epbr-sess-policy

match ip address prefix-list

```
match ip address prefix-list <ipv4-pfl-name> + | no match ip address prefix-list { <ipv4-pfl-name> | <ipv4-pfl-name> } +
```

Syntax Description

| | |
|----------------------|----------------------------------------|
| no | Negate a command or set its defaults |
| match | Match values from routing table |
| ip | Configure IP features |
| address | Match address of route or match packet |
| prefix-list | Match entries of prefix-lists |
| <i>ipv4-pfl-name</i> | Name of prefix-list |
| <i>ipv4-pfl-name</i> | Name of prefix-list |
| <i>ipv4-pfl-name</i> | Known prefix-list name |

Command Mode

- /exec/configure/route-map

match ip multicast rp

```
{ match ip multicast { { rp <iprp> [ rp-type <iprptype> ] } | { group <gprefix> } | { source <ipsrc> } } + } |
{ match ip multicast { { rp <iprp> [ rp-type <iprptype> ] } | { group-range <gaddr_start> to <gaddr_end> }
| { source <ipsrc> } } + } | { no match ip multicast }
```

Syntax Description

| | |
|--------------------|--------------------------------------------|
| no | Negate a command or set its defaults |
| match | Match values from routing table |
| ip | Configure IP features |
| multicast | Match multicast attributes |
| rp | Rendezvous point |
| <i>iprp</i> | IPv4 rendezvous prefix |
| rp-type | (Optional) Multicast rendezvous point type |
| <i>iprptype</i> | (Optional) IPv4 rendezvous point type |
| group | Multicast Group prefix |
| <i>gprefix</i> | IPv4 group prefix |
| group-range | Multicast Group address range |
| <i>gaddr_start</i> | First Group address |
| to | Range |
| <i>gaddr_end</i> | Last Group address |
| source | Multicast source address |
| <i>ipsrc</i> | IPv4 source prefix |

Command Mode

- /exec/configure/route-map

match ip next-hop prefix-list

match ip next-hop prefix-list <ipv4-pfl-name> + | no match ip next-hop prefix-list { <ipv4-pfl-name> | <ipv4-pfl-name> } +

Syntax Description

| | |
|----------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| match | Match values from routing table |
| ip | Configure IP features |
| next-hop | Match next-hop address of route |
| prefix-list | Match entries of prefix-lists |
| <i>ipv4-pfl-name</i> | Name of prefix-list |
| <i>ipv4-pfl-name</i> | Name of prefix-list |
| <i>ipv4-pfl-name</i> | Known prefix-list name |

Command Mode

- /exec/configure/route-map

match ip protocol

[no] match ip { protocol | tos }

Syntax Description

| | |
|----------|---------------------|
| match | Specify a key field |
| ip | IP attributes |
| protocol | Protocol |
| tos | TOS |

Command Mode

- /exec/configure/analytics/record

match ip protocol

[no] match ip { protocol | tos }

Syntax Description

| | |
|----------|---------------------|
| match | Specify a key field |
| ip | IP attributes |
| protocol | Protocol |
| tos | TOS |

Command Mode

- /exec/configure/nfm-record

match ip protocol

[no] match ip { protocol | tos }

Syntax Description

| | |
|----------|---------------------|
| match | Specify a key field |
| ip | IP attributes |
| protocol | Protocol |
| tos | TOS |

Command Mode

- /exec/configure/nfm-record

match ip route-source prefix-list

match ip route-source prefix-list <ipv4-pfl-name> + | no match ip route-source prefix-list { <ipv4-pfl-name> | <ipv4-pfl-name> } +

Syntax Description

| | |
|----------------------|-------------------------------------------|
| no | Negate a command or set its defaults |
| match | Match values from routing table |
| ip | Configure IP features |
| route-source | Match advertising source address of route |
| prefix-list | Match entries of prefix-lists |
| <i>ipv4-pfl-name</i> | Name of prefix-list |
| <i>ipv4-pfl-name</i> | Name of prefix-list |
| <i>ipv4-pfl-name</i> | Known prefix-list name |

Command Mode

- /exec/configure/route-map

match ip source address

[no] match ip { source | destination } address

Syntax Description

| | |
|-------------|-------------------------|
| match | Specify a key field |
| ip | IPv4 source/destination |
| source | Source Address |
| destination | Destination Address |
| address | Address |

Command Mode

- /exec/configure/nfm-record

match ip source address

[no] match ip { source | destination } address

Syntax Description

| | |
|-------------|-------------------------|
| match | Specify a key field |
| ip | IPv4 source/destination |
| source | Source Address |
| destination | Destination Address |
| address | Address |

Command Mode

- /exec/configure/analytics/record

match ipv4 protocol

[no] match ipv4 { protocol | tos }

Syntax Description

| | |
|----------|---------------------|
| match | Specify a key field |
| ipv4 | IPv4 attributes |
| protocol | Protocol |
| tos | TOS |

Command Mode

- /exec/configure/config-fte-record

match ipv4 source address

[no] match ipv4 { source | destination } address

Syntax Description

| | |
|-------------|---------------------|
| match | Specify a key field |
| ipv4 | IPv4 attributes |
| source | Source Address |
| destination | Destination Address |
| address | Address |

Command Mode

- /exec/configure/nfm-record

match ipv4 source address

[no] match ipv4 { source | destination } address

Syntax Description

| | |
|-------------|---------------------|
| match | Specify a key field |
| ipv4 | IPv4 attributes |
| source | Source Address |
| destination | Destination Address |
| address | Address |

Command Mode

- /exec/configure/config-fte-record

match ipv4 transport destination

[no] match ipv4 transport { destination-port | source-port }

Syntax Description

| | |
|------------------|----------------------------|
| match | Specify a key field |
| ipv4 | IPv4 attributes |
| transport | Transport layer fields |
| destination-port | Transport destination port |
| source-port | Transport source port |

Command Mode

- /exec/configure/config-fte-record

match ipv6

```
[no] match ipv6 { { { source | destination } address } | { flow-label | options } }
```

Syntax Description

| | |
|-------------|---------------------|
| match | Specify a key field |
| ipv6 | IPv6 attributes |
| source | Source Address |
| destination | Destination Address |
| address | Address |
| flow-label | Flow label |
| options | Options |

Command Mode

- /exec/configure/nfm-record

match ipv6

```
[no] match ipv6 { { { source | destination } address } | { flow-label } }
```

Syntax Description

| | |
|-------------|---------------------|
| match | Specify a key field |
| ipv6 | IPv6 attributes |
| source | Source Address |
| destination | Destination Address |
| address | Address |
| flow-label | Flow label |

Command Mode

- /exec/configure/config-fte-record

match ipv6 address

[no] match ipv6 address <name>

Syntax Description

| | |
|-------------|------------------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| match | Match values from routing table |
| ipv6 | Configure IPv6 features |
| address | Match address of route or match packet |
| <i>name</i> | IPv6 access-list name (for use in route-maps for PBR only) |

Command Mode

- /exec/configure/route-map

match ipv6 address

[no] match ipv6 address <acl-name> [<traffic-action>] [vlan { <vlan-range> | all }]

Syntax Description

| | |
|-----------------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| match | Match entry for the service |
| ipv6 | Configure IPv6 features |
| address | Match criteria |
| <i>acl-name</i> | IPv6 access-list name |
| vlan | (Optional) user vlans for the service chain |
| <i>vlan-range</i> | (Optional) range of vlans |
| all | (Optional) all vlans |
| <i>traffic-action</i> | (Optional) Action on traffic |

Command Mode

- /exec/configure/epbr-policy

match ipv6 address

```
[no] match ipv6 address <acl-name> [ <traffic-action> ] [ vlan { <vlan-range> | all } ]
```

Syntax Description

| | |
|-----------------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| match | Match entry for the service |
| ipv6 | Configure IPv6 features |
| address | Match criteria |
| <i>acl-name</i> | IPv6 access-list name |
| vlan | (Optional) user vlans for the service chain |
| <i>vlan-range</i> | (Optional) range of vlans |
| all | (Optional) all vlans |
| <i>traffic-action</i> | (Optional) Action on traffic |

Command Mode

- /exec/configure/epbr-sess-policy

match ipv6 address prefix-list

```
match ipv6 address prefix-list <ipv6-pfl-name> + | no match ipv6 address prefix-list { <ipv6-pfl-name> | <ipv6-pfl-name> } +
```

Syntax Description

| | |
|----------------------|----------------------------------------|
| no | Negate a command or set its defaults |
| match | Match values from routing table |
| ipv6 | Configure IPv6 features |
| address | Match address of route or match packet |
| prefix-list | Match entries of prefix-lists |
| <i>ipv6-pfl-name</i> | Name of prefix-list |
| <i>ipv6-pfl-name</i> | Name of prefix-list |
| <i>ipv6-pfl-name</i> | Known prefix-list name |

Command Mode

- /exec/configure/route-map

match ipv6 multicast rp

```
{ match ipv6 multicast { { rp <ipv6rp> [ rp-type <ipv6rptype> ] } | { group <gprefix> } | { source <ipv6src> } } + } | { match ipv6 multicast { { rp <ipv6rp> [ rp-type <ipv6rptype> ] } | { group-range <gaddr_start> to <gaddr_end> } | { source <ipv6src> } } + } | { no match ipv6 multicast }
```

Syntax Description

| | |
|-------------------|--------------------------------------------|
| no | Negate a command or set its defaults |
| match | Match values from routing table |
| ipv6 | Configure IPv6 features |
| multicast | Match multicast attributes |
| rp | Rendezvous point |
| rp-type | (Optional) Multicast rendezvous point type |
| <i>ipv6rptype</i> | (Optional) IPv6 rendezvous point type |
| group | Multicast group address |
| group-range | Multicast Group address range |
| to | Range |
| source | Multicast source address |

Command Mode

- /exec/configure/route-map

match ipv6 next-hop prefix-list

```
match ipv6 next-hop prefix-list <ipv6-pfl-name> + | no match ipv6 next-hop prefix-list { <ipv6-pfl-name> | <ipv6-pfl-name> } +
```

Syntax Description

| | |
|----------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| match | Match values from routing table |
| ipv6 | Configure IPv6 features |
| next-hop | Match next-hop address of route |
| prefix-list | Match entries of prefix-lists |
| <i>ipv6-pfl-name</i> | Name of prefix-list |
| <i>ipv6-pfl-name</i> | Name of prefix-list |
| <i>ipv6-pfl-name</i> | Known prefix-list name |

Command Mode

- /exec/configure/route-map

match ipv6 protocol

[no] match ipv6 { protocol | tos }

Syntax Description

| | |
|----------|---------------------|
| match | Specify a key field |
| ipv6 | IPv6 attributes |
| protocol | Protocol |
| tos | TOS |

Command Mode

- /exec/configure/config-fte-record

match ipv6 route-source prefix-list

```
match ipv6 route-source prefix-list <ipv6-pfl-name> + | no match ipv6 route-source prefix-list {  
<ipv6-pfl-name> | <ipv6-pfl-name> } +
```

Syntax Description

| | |
|----------------------|-------------------------------------------|
| no | Negate a command or set its defaults |
| match | Match values from routing table |
| ipv6 | Configure IPv6 features |
| route-source | Match advertising source address of route |
| prefix-list | Match entries of prefix-lists |
| <i>ipv6-pfl-name</i> | Name of prefix-list |
| <i>ipv6-pfl-name</i> | Name of prefix-list |
| <i>ipv6-pfl-name</i> | Known prefix-list name |

Command Mode

- /exec/configure/route-map

match ipv6 transport destination

[no] match ipv6 transport { destination-port | source-port }

Syntax Description

| | |
|------------------|----------------------------|
| match | Specify a key field |
| ipv6 | IPv6 attributes |
| transport | Transport layer fields |
| destination-port | Transport destination port |
| source-port | Transport source port |

Command Mode

- /exec/configure/config-fte-record

match l2 address

```
[no] match l2 address <acl-name> [ <traffic-action> ] [ vlan { <vlan-range> | all } ]
```

Syntax Description

| | |
|-----------------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| match | Match entry for the service |
| l2 | Configure L2 features |
| address | Match criteria |
| <i>acl-name</i> | mac access-list name |
| vlan | (Optional) user vlans for the service chain |
| <i>vlan-range</i> | (Optional) range of vlans |
| all | (Optional) all vlans |
| <i>traffic-action</i> | (Optional) Action on traffic |

Command Mode

- /exec/configure/epbr-policy

match l2 address

```
[no] match l2 address <acl-name> [ <traffic-action> ] [ vlan { <vlan-range> | all } ]
```

Syntax Description

| | |
|-----------------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| match | Match entry for the service |
| l2 | Configure L2 features |
| address | Match criteria |
| <i>acl-name</i> | mac access-list name |
| vlan | (Optional) user vlans for the service chain |
| <i>vlan-range</i> | (Optional) range of vlans |
| all | (Optional) all vlans |
| <i>traffic-action</i> | (Optional) Action on traffic |

Command Mode

- /exec/configure/epbr-sess-policy

match large-community

[no] match large-community <name> + [exact-match]

Syntax Description

| | |
|-----------------|---------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| match | Match values from routing table |
| large-community | Add a large community list entry |
| <i>name</i> | Standard large community list name |
| exact-match | (Optional) Do exact matching of large communities |

Command Mode

- /exec/configure/route-map

match mac-list

```
match mac-list [ dest ] <maclist-name> + | no match mac-list [ dest ] { <maclist-name> | <maclist-name> }
+
```

Syntax Description

| | |
|---------------------|-------------------------------------------|
| no | Negate a command or set its defaults |
| match | Match values from routing table |
| mac-list | Match entries of mac-lists |
| dest | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| <i>maclist-name</i> | Name of mac-list |
| <i>maclist-name</i> | Name of mac-list |
| <i>maclist-name</i> | Known mac-list name |

Command Mode

- /exec/configure/route-map

match message-type

```
[no] match { <ser-def-name> | all } message-type { any | announcement | query }
```

Syntax Description

| | |
|---------------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| match | Specify service to match |
| <i>ser-def-name</i> | Service definition name |
| all | To match on all Service definitions |
| message-type | To set the message type |
| any | Match Any |
| query | Match Query |
| announcement | Match Announcement/Responses |

Command Mode

- /exec/configure/mdns-sl-in

match message-type

```
[no] match { <ser-def-name> | all } message-type { any | announcement | query } [ source-interface <vlans> ]
```

Syntax Description

| | |
|---------------------|------------------------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| match | Specify service to match |
| <i>ser-def-name</i> | Service definition name |
| all | To match on all Service definitions |
| message-type | To set the message type |
| any | Match Any |
| query | Match Query |
| announcement | Match Announcement/Responses |
| source-interface | (Optional) Specify source Vlans for services |
| <i>vlans</i> | (Optional) mDNS vlan number or vlan range, example: 1,3-5,7,9-11 |

Command Mode

- /exec/configure/mdns-ctrl-sl

match metric

[no] match metric { <measure> [<plus-minus> <deviation>] } +

Syntax Description

| | |
|-------------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| match | Match values from routing table |
| metric | Match metric of route |
| <i>plus-minus</i> | (Optional) +/- |
| <i>measure</i> | Metric value |
| <i>deviation</i> | (Optional) Deviation value |

Command Mode

- /exec/configure/route-map

match ospf-area

[no] match ospf-area <area> +

Syntax Description

| | |
|-------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| match | Match values from routing table |
| ospf-area | Match ospf area |
| <i>area</i> | area id |

Command Mode

- /exec/configure/route-map

match protocol arp

```
[no] match protocol { arp | mpls [ router-alert | exp <exp_value> ] }
```

Syntax Description

| | |
|------------------|----------------------------------------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| match | Classification criteria |
| protocol | Protocol |
| arp | IP ARP |
| mpls | Multi-protocol Label Switching |
| router-alert | (Optional) Match packets with router-alert label set to 1 for OTV Overlay frames |
| exp | (Optional) Match packets on MPLS exp bits |
| <i>exp_value</i> | (Optional) Exp bits value |

Command Mode

- /exec/configure/cmap

match qos-group

[no] match qos-group { <qos-group-list> } +

Syntax Description

| | |
|-----------------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| match | Classification criteria |
| qos-group | QoS Group |
| <i>qos-group-list</i> | List of qos-group values |

Command Mode

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

match qos-group2

[no] match qos-group2 <qos-group-list>

Syntax Description

| | |
|-----------------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| match | Classification criteria |
| qos-group2 | QoS Group |
| <i>qos-group-list</i> | |

Command Mode

- /exec/configure/class-map/type/uf

match qos-group2

[no] match qos-group2 { <qos-group-list> }

Syntax Description

| | |
|-----------------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| match | Classification criteria |
| qos-group2 | QoS Group |
| <i>qos-group-list</i> | |

Command Mode

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

match qos-group

[no] match qos-group <qos-group-list>

Syntax Description

| | |
|-----------------------|-------------------------------------------------|
| <i>qos-group-list</i> | |
| no | (Optional) Negate a command or set its defaults |
| match | Classification criteria |
| qos-group | QoS Group |

Command Mode

- /exec/configure/class-map/type/uf

match redirect

[no] match redirect <opt_match_redirect>

Syntax Description

| | |
|---------------------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| match | Classification criteria |
| redirect | Match redirected packets |
| <i>opt_match_redirect</i> | Match criteria for redirected packets |

Command Mode

- /exec/configure/cmap

match route-type

[no] match route-type { external | internal | level-1 | level-2 | local | nssa-external | type-1 | type-2 | inter-area | intra-area | redistributed-direct } +

Syntax Description

| | |
|----------------------|--------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| match | Match values from routing table |
| route-type | Match route-type of route |
| external | external route (BGP, EIGRP and OSPF type 1/2) |
| internal | internal route (including OSPF intra/inter area) |
| level-1 | IS-IS level-1 route |
| level-2 | IS-IS level-2 route |
| local | locally generated route |
| nssa-external | nssa-external route (OSPF type 1/2) |
| type-1 | OSPF external type 1 route |
| type-2 | OSPF external type 2 route |
| inter-area | OSPF inter area route |
| intra-area | OSPF intra area route |
| redistributed-direct | Redistributed direct route (BGP) |

Command Mode

- /exec/configure/route-map

match rpk valid

```
{ match rpk { valid | not-found | invalid } } | { no match rpk [ valid | not-found | invalid ] }
```

Syntax Description

| | |
|-----------|--------------------------------------|
| no | Negate a command or set its defaults |
| match | Match values from routing table |
| rpk | Match rpk state |
| valid | RPKI state received is valid |
| not-found | RPKI state received is not-found |
| invalid | RPKI state received is invalid |

Command Mode

- /exec/configure/route-map

match source-protocol

[no] match source-protocol <src_prot> +

Syntax Description

| | |
|-----------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| match | Match values from routing table |
| source-protocol | Match source protocol |
| <i>src_prot</i> | Protocol instance name |

Command Mode

- /exec/configure/route-map

match tag

[no] match tag <tagid> +

Syntax Description

| | |
|--------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| match | Match values from routing table |
| tag | Match tag of route |
| <i>tagid</i> | Tag value |

Command Mode

- /exec/configure/route-map

match transport destination

[no] match transport { destination-port | source-port }

Syntax Description

| | |
|------------------|----------------------------|
| match | Specify a key field |
| transport | Transport layer fields |
| destination-port | Transport destination port |
| source-port | Transport source port |

Command Mode

- /exec/configure/nfm-record

match transport destination

[no] match transport { destination-port | source-port }

Syntax Description

| | |
|------------------|----------------------------|
| match | Specify a key field |
| transport | Transport layer fields |
| destination-port | Transport destination port |
| source-port | Transport source port |

Command Mode

- /exec/configure/nfm-record

match transport destination

[no] match transport { destination-port | source-port }

Syntax Description

| | |
|------------------|----------------------------|
| match | Specify a key field |
| transport | Transport layer fields |
| destination-port | Transport destination port |
| source-port | Transport source port |

Command Mode

- /exec/configure/analytics/record

match vlan

[no] match vlan <vlan-range>

Syntax Description

| | |
|-------------------|------------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| match | Match criteria for ESG selector under security-group |
| vlan | Match a specific vlan-id or range(s) of vlan-ids |
| <i>vlan-range</i> | VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19 |

Command Mode

- /exec/configure/security-group

max-lsa

[no] max-lsa <maximum-number> [<threshold>] [warning-only | [ignore-time <ignore-time-minutes>] [ignore-count <ignore-count-number>] [reset-time <reset-time-minutes>]]

Syntax Description

| | |
|----------------------------|----------------------------------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| max-lsa | Feature to limit the number of non-self-originated LSAs |
| <i>maximum-number</i> | Set maximum number of non self-generated LSAs |
| <i>threshold</i> | (Optional) Threshold value (%) at which to generate a warning message |
| warning-only | (Optional) Log a warning message when limit is exceeded |
| ignore-time | (Optional) Set time during which all adjacencies are suppressed |
| <i>ignore-time-minutes</i> | (Optional) ignore-time in minutes |
| ignore-count | (Optional) Set count on how many times adjacencies can be suppressed |
| <i>ignore-count-number</i> | (Optional) ignore-count |
| reset-time | (Optional) Set number of minutes after which ignore-count is reset to zero |
| <i>reset-time-minutes</i> | (Optional) reset-time in minutes |

Command Mode

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

max-lsa

[no] max-lsa <maximum-number> [<threshold>] [warning-only | [ignore-time <ignore-time-minutes>] [ignore-count <ignore-count-number>] [reset-time <reset-time-minutes>]]

Syntax Description

| | |
|----------------------------|----------------------------------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| max-lsa | Feature to limit the number of non-self-originated LSAs |
| <i>maximum-number</i> | Set maximum number of non self-generated LSAs |
| <i>threshold</i> | (Optional) Threshold value (%) at which to generate a warning message |
| warning-only | (Optional) Log a warning message when limit is exceeded |
| ignore-time | (Optional) Set time during which all adjacencies are suppressed |
| <i>ignore-time-minutes</i> | (Optional) ignore-time in minutes |
| ignore-count | (Optional) Set count on how many times adjacencies can be suppressed |
| <i>ignore-count-number</i> | (Optional) ignore-count |
| reset-time | (Optional) Set number of minutes after which ignore-count is reset to zero |
| <i>reset-time-minutes</i> | (Optional) reset-time in minutes |

Command Mode

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

max-lsp-lifetime

max-lsp-lifetime <lifetime> | no max-lsp-lifetime [<lifetime>]

Syntax Description

| | |
|------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| max-lsp-lifetime | Set maximum LSP lifetime |
| <i>lifetime</i> | Maximum LSP lifetime in seconds |

Command Mode

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

max-lsp-lifetime

max-lsp-lifetime <lifetime> | no max-lsp-lifetime [<lifetime>]

Syntax Description

| | |
|------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| max-lsp-lifetime | Set maximum LSP lifetime |
| <i>lifetime</i> | Maximum LSP lifetime in seconds |

Command Mode

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

max-lsp-lifetime

max-lsp-lifetime <lifetime> | no max-lsp-lifetime [<lifetime>]

Syntax Description

| | |
|------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| max-lsp-lifetime | Set maximum LSP lifetime |
| <i>lifetime</i> | Maximum LSP lifetime in seconds |

Command Mode

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

max-metric router-lsa

```
[no] max-metric router-lsa [ external-lsa [ <max-metric-extlsa> ] ] [ include-stub ] [ on-startup [ <timeout> ]
[ wait-for bgp <as> ] ] [ summary-lsa [ <max-metric-sumlsa> ] ]
```

Syntax Description

| | |
|--------------------------|---------------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| max-metric | Maximize the cost metric |
| router-lsa | Router LSA |
| external-lsa | (Optional) External LSAs |
| <i>max-metric-extlsa</i> | (Optional) Max metric value for external LSAs |
| include-stub | (Optional) Advertise Max metric for Stub links as well |
| on-startup | (Optional) Effective only at startup |
| <i>timeout</i> | (Optional) Wait period in seconds after startup |
| wait-for | (Optional) Wait for an event to advertise normal metric |
| bgp | (Optional) BGP Convergence |
| <i>as</i> | (Optional) ASN of BGP to wait for |
| summary-lsa | (Optional) Summary LSAs |
| <i>max-metric-sumlsa</i> | (Optional) Max metric value for summary LSAs |

Command Mode

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

max-metric router-lsa

```
[no] max-metric router-lsa [ external-lsa [ <max-metric-extlsa> ] ] [ stub-prefix-lsa ] [ on-startup [ <timeout> ] ] [ wait-for bgp <as> ] ] [ inter-area-prefix-lsa [ <max-metric-sumlsa> ] ]
```

Syntax Description

| | |
|--------------------------|---------------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| max-metric | Maximize the cost metric |
| router-lsa | Router LSA |
| external-lsa | (Optional) External LSAs |
| <i>max-metric-extlsa</i> | (Optional) Max metric value for external LSAs |
| stub-prefix-lsa | (Optional) Advertise Max metric for Stub links as well |
| on-startup | (Optional) Effective only at startup |
| <i>timeout</i> | (Optional) Wait period in seconds after startup |
| wait-for | (Optional) Wait for an event to advertise normal metric |
| bgp | (Optional) BGP Convergence |
| <i>as</i> | (Optional) ASN of BGP to wait for |
| inter-area-prefix-lsa | (Optional) Inter-area-prefix LSAs |
| <i>max-metric-sumlsa</i> | (Optional) Max metric value for summary LSAs |

Command Mode

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

max-ports

[vmware] max-ports <i0>

Syntax Description

| | |
|-----------|--------------------------------------------------|
| vmware | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| max-ports | Max ports on which this profile can be inherited |
| <i>i0</i> | Enter the max-number of ports |

Command Mode

- /exec/configure/port-profile

max-ports

[no] [vmware] max-ports

Syntax Description

| | |
|-----------|--------------------------------------------------|
| no | Negate a command or set its defaults |
| vmware | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| max-ports | Max ports on which this profile can be inherited |

Command Mode

- /exec/configure/port-profile

maxas-limit

maxas-limit <as-limit> | no maxas-limit [<as-limit>]

Syntax Description

| | |
|-----------------|-------------------------------------------------------------------------------|
| no | Negate a command or set its defaults |
| maxas-limit | Allow AS-PATH attribute from EBGP neighbor imposing a limit on number of ASes |
| <i>as-limit</i> | Number of ASes in the AS-PATH attribute |

Command Mode

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

maximum-paths

maximum-paths <max-paths> | no maximum-paths [<max-paths>]

Syntax Description

| | |
|------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| maximum-paths | RIP set maximum paths per route |
| <i>max-paths</i> | Maximum paths per prefix |

Command Mode

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

maximum-paths

maximum-paths <max-paths> | no maximum-paths [<max-paths>]

Syntax Description

| | |
|------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| maximum-paths | Set maximum paths per destination |
| <i>max-paths</i> | Maximum paths per destination |

Command Mode

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

maximum-paths

maximum-paths <max-paths> | no maximum-paths [<max-paths>]

Syntax Description

| | |
|------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| maximum-paths | Maximum paths per destination |
| <i>max-paths</i> | Maximum paths per destination |

Command Mode

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

maximum-paths

{ { maximum-paths <num-paths> } | { no maximum-paths [<num-paths>] } }

Syntax Description

| | |
|------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| maximum-paths | Forward packets over multiple paths |
| <i>num-paths</i> | Number of paths |

Command Mode

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

maximum-paths

maximum-paths <max-paths> | no maximum-paths [<max-paths>]

Syntax Description

| | |
|------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| maximum-paths | Maximum paths per destination |
| <i>max-paths</i> | Maximum paths per destination |

Command Mode

- /exec/configure/router-ospf

maximum-paths

maximum-paths [ibgp] <mpath-count> | no maximum-paths [ibgp] [<mpath-count>]

Syntax Description

| | |
|--------------------|-----------------------------------------------|
| no | Negate a command or set its defaults |
| maximum-paths | Forward packets over multipath paths |
| ibgp | (Optional) Configure multipath for IBGP paths |
| <i>mpath-count</i> | Number of parallel paths |

Command Mode

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

maximum-paths

maximum-paths <max-paths> | no maximum-paths [<max-paths>]

Syntax Description

| | |
|------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| maximum-paths | Set maximum paths per destination |
| <i>max-paths</i> | Maximum paths per destination |

Command Mode

- /exec/configure/l2mp-isis/l2mp-isis-vrf-common /exec/configure/l2mp-isis/l2mp-isis-l2-topo

maximum-paths eibgp

maximum-paths eibgp <mpath-count> | no maximum-paths eibgp [<mpath-count>]

Syntax Description

| | |
|--------------------|--------------------------------------------------|
| no | Negate a command or set its defaults |
| maximum-paths | Forward packets over multipath paths |
| eibgp | Configure multipath for both EBGp and IBGP paths |
| <i>mpath-count</i> | Number of parallel paths |

Command Mode

- /exec/configure/router-bgp/router-bgp-vrf-af-ipv4 /exec/configure/router-bgp/router-bgp-vrf-af-ipv6
/exec/configure/router-bgp/router-bgp-af-vpn4 /exec/configure/router-bgp/router-bgp-af-vpn6

maximum-paths local

maximum-paths local <mpath-count> | no maximum-paths local [<mpath-count>]

Syntax Description

| | |
|--------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| maximum-paths | Forward packets over multipath paths |
| local | Configure multipath for local paths |
| <i>mpath-count</i> | Number of parallel paths |

Command Mode

- /exec/configure/router-bgp/router-bgp-vrf-af-ipv4 /exec/configure/router-bgp/router-bgp-vrf-af-ipv6
/exec/configure/router-bgp/router-bgp-af-l2vpn-evpn

maximum-paths mixed

maximum-paths mixed <mpath-count> | no maximum-paths mixed [<mpath-count>]

Syntax Description

| | |
|--------------------|------------------------------------------------|
| no | Negate a command or set its defaults |
| maximum-paths | Forward packets over multipath paths |
| mixed | Configure multipath for local and remote paths |
| <i>mpath-count</i> | Number of parallel paths |

Command Mode

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

maximum-paths unequal-cost

[no] maximum-paths unequal-cost

Syntax Description

| | |
|---------------|-------------------------------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| maximum-paths | Forward packets over multipath paths |
| unequal-cost | Configure WUECMP based on weight derived from nexthop-metric by default |

Command Mode

- /exec/configure/router-bgp/router-bgp-vrf-af-ipv4 /exec/configure/router-bgp/router-bgp-vrf-af-ipv6 /exec/configure/router-bgp/router-bgp-af-l2vpn-evpn

maximum-peers

```
{ maximum-peers <limit> | { no | default } maximum-peers [ <limit> ] }
```

Syntax Description

| | |
|---------------|------------------------------------------------------|
| no | Negate a command or set its defaults |
| default | Inherit values from a peer template |
| maximum-peers | Maximum number of peers for this interface or prefix |
| <i>limit</i> | Max. peers limit |

Command Mode

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

maximum-prefix

```
maximum-prefix <limit> [ <percent> ] [ restart <restart-time> | warning-only ] | { no | default } maximum-prefix
[ <limit> [ <percent> ] [ restart <restart-time> | warning-only ] ]
```

Syntax Description

| | |
|---------------------|----------------------------------------------------------------|
| no | Negate a command or set its defaults |
| default | Inherit values from a peer template |
| maximum-prefix | Maximum number of prefixes from this neighbor |
| <i>limit</i> | Max. prefix limit |
| <i>percent</i> | (Optional) Threshold percentage at which to generate a warning |
| restart | (Optional) Restart bgp connection after limit is exceeded |
| <i>restart-time</i> | (Optional) Restart interval in minutes |
| warning-only | (Optional) Only give a warning message when limit is exceeded |

Command Mode

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

maximum-prefix

maximum-prefix <limit> [<percent>] [restart <restart-time> | warning-only] | { no | default } maximum-prefix [<limit> [<percent>] [restart <restart-time> | warning-only]]

Syntax Description

| | |
|---------------------|----------------------------------------------------------------|
| no | Negate a command or set its defaults |
| default | Inherit values from a peer template |
| maximum-prefix | Maximum number of prefixes from this neighbor |
| <i>limit</i> | Max. prefix limit |
| <i>percent</i> | (Optional) Threshold percentage at which to generate a warning |
| restart | (Optional) Restart bgp connection after limit is exceeded |
| <i>restart-time</i> | (Optional) Restart interval in minutes |
| warning-only | (Optional) Only give a warning message when limit is exceeded |

Command Mode

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

maximum routes

[no] maximum routes <limit> [{ <warnlevel> [reinstall <threshold>] } | warning-only]

Syntax Description

| | |
|------------------|------------------------------------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| maximum | Set a limit |
| routes | Maximum number of routes allowed in this routing table |
| <i>limit</i> | Maximum number of routes allowed |
| <i>warnlevel</i> | (Optional) Threshold value (%) at which to generate a warning msg |
| reinstall | (Optional) Reinstall previous rejected route due to over maximum route limit |
| <i>threshold</i> | (Optional) Threshold value (%) at which to reinstall routes back to VRF |
| warning-only | (Optional) Only give a warning message if limit is exceeded |

Command Mode

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

mcast-group

```
mcast-group { <maddr1> [ <maddr2> ] | <m6addr1> [ <m6addr2> ] } | no mcast-group
```

Syntax Description

| | |
|---------------|--------------------------------------|
| no | Negate a command or set its defaults |
| mcast-group | NVE Multicast Group |
| <i>maddr1</i> | Multicast IP Prefix |
| <i>maddr2</i> | (Optional) Multicast IP Prefix |

Command Mode

- /exec/configure/if-nve/vni

mcast-routing override source-interface

[no] mcast-routing override source-interface <interface>

Syntax Description

| | |
|------------------|--------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mcast-routing | Configure loopback for routing in L2+L3 TRM mode |
| override | Override source address of routed mcast packets |
| source-interface | Source address of routed mcast packets |
| <i>interface</i> | |

Command Mode

- /exec/configure/if-nve

mcast root lowest vsan

[no] mcast root lowest vsan <i0>

Syntax Description

| | |
|-----------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| root | Configure multicast root |
| lowest | Select lowest domain switch as root |
| vsan | Enter VSAN |
| <i>i0</i> | VSAN id range |

Command Mode

- /exec/configure

mcast root principal vsan

[no] mcast root principal vsan <i0>

Syntax Description

| | |
|-----------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| root | Configure multicast root |
| principal | Select principal switch as root |
| vsan | Enter VSAN |
| <i>i0</i> | VSAN id range |

Command Mode

- /exec/configure

mdix auto

{ mdix auto | no mdix [auto] }

Syntax Description

| | |
|------|--------------------------------------|
| no | Negate a command or set its defaults |
| mdix | Enable auto mdix mode |
| auto | Enable auto mdix mode |

Command Mode

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

mdns-sd controller

[no] mdns-sd controller { <controller-name> }

Syntax Description

| | |
|------------------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mdns-sd | mDNS Gateway |
| controller | Controller |
| <i>controller-name</i> | Specify Controller name |

Command Mode

- /exec/configure

mdns-sd controller service-list

[no] mdns-sd controller service-list <sl-name>

Syntax Description

| | |
|----------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mdns-sd | mDNS Gateway |
| controller | mDNS Controller |
| service-list | mDNS Service List |
| <i>sl-name</i> | mDNS Service List Name |

Command Mode

- /exec/configure

mdns-sd controller service-policy

[no] mdns-sd controller service-policy <ser-pol-name>

Syntax Description

| | |
|---------------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mdns-sd | mDNS Gateway |
| controller | mDNS Controller |
| service-policy | mDNS Service Policy |
| <i>ser-pol-name</i> | mDNS Service Policy Name |

Command Mode

- /exec/configure

mdns-sd gateway

[no] mdns-sd gateway

Syntax Description

| | |
|---------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mdns-sd | mdns-sd |
| gateway | mDNS Gateway Configuration |

Command Mode

- /exec/configure/vlan-config

mdns-sd gateway

[no] mdns-sd gateway

Syntax Description

| | |
|---------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mdns-sd | mDNS Gateway |
| gateway | mDNS Gateway Configuration |

Command Mode

- /exec/configure

mdns-sd service-definition

[no] mdns-sd service-definition <ser-def-name>

Syntax Description

| | |
|---------------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mdns-sd | mDNS Gateway |
| service-definition | mDNS Service Definition |
| <i>ser-def-name</i> | mDNS Service Definition Name |

Command Mode

- /exec/configure

mdns-sd service-list in

[no] mdns-sd service-list <sl-name> in

Syntax Description

| | |
|----------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mdns-sd | mDNS Gateway |
| service-list | mDNS Service List |
| <i>sl-name</i> | mDNS Service List Name |
| in | IN Bound Filtering |

Command Mode

- /exec/configure

mdns-sd service-list out

[no] mdns-sd service-list <sl-name> out

Syntax Description

| | |
|----------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mdns-sd | mDNS Gateway |
| service-list | mDNS Service List |
| <i>sl-name</i> | mDNS Service List Name |
| out | OUT Bound Filtering |

Command Mode

- /exec/configure

mdns-sd service-policy

[no] mdns-sd service-policy <ser-pol-name>

Syntax Description

| | |
|---------------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mdns-sd | mDNS Gateway |
| service-policy | mDNS Service Policy |
| <i>ser-pol-name</i> | mDNS Service Policy Name |

Command Mode

- /exec/configure

mdt asm-use-shared-tree

[no] mdt asm-use-shared-tree

Syntax Description

| | |
|---------------------|---------------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mdt | Backbone Multicast Distribution Tree |
| asm-use-shared-tree | Use (*,G) only state, no remote source state is created |

Command Mode

- /exec/configure/vrf

mdt data

[no] mdt data <prefix> [threshold <value> | immediate-switch] [route-map <policy-name>]

Syntax Description

| | |
|--------------------|-------------------------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mdt | Backbone Multicast Distribution Tree |
| data | Configure settings for Data MDT |
| <i>prefix</i> | List of group range prefixes |
| threshold | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| immediate-switch | (Optional) Move to data mdt immediately if remote receiver exists |
| <i>value</i> | (Optional) Threshold in kilobits per sec |
| route-map | (Optional) Specify policy for creating Data MDTs |
| <i>policy-name</i> | (Optional) A route-map name |

Command Mode

- /exec/configure/vrf

mdt data vxlan

[no] mdt data vxlan <group-range> [threshold <value>] [route-map <policy-name>] [<seq-no>]

Syntax Description

| | |
|--------------------|--------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mdt | Multicast distribution tree |
| data | Configure settings for TRM Data MDT |
| vxlan | VXLAN |
| <i>group-range</i> | Underlay multicast group address range |
| threshold | (Optional) Data MDT switching threshold |
| <i>value</i> | (Optional) Threshold in kilobits per sec |
| route-map | (Optional) Specify policy for creating Data MDTs |
| <i>policy-name</i> | (Optional) Configure policy name |
| <i>seq-no</i> | (Optional) sequence number |

Command Mode

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

mdt default

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

Syntax Description

| | |
|--------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| mdt | Backbone Multicast Distribution Tree |
| default | The default group |
| <i>mdt-default</i> | IP multicast group address |

Command Mode

- /exec/configure/vrf

mdt enforce-bgp-mdt-safi

[no] mdt enforce-bgp-mdt-safi

Syntax Description

| | |
|----------------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mdt | Backbone Multicast Distribution Tree |
| enforce-bgp-mdt-safi | Depend on BGP MDT SAFI for auto-discovery |

Command Mode

- /exec/configure/vrf

mdt mtu

[no] mdt mtu <mtu-value>

Syntax Description

| | |
|------------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mdt | Backbone Multicast Distribution Tree |
| mtu | The MTU |
| <i>mtu-value</i> | MTU value |

Command Mode

- /exec/configure/vrf

mdt pim hello-interval

[no] mdt pim hello-interval <interval>

Syntax Description

| | |
|-----------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mdt | Backbone Multicast Distribution Tree |
| pim | PIM protocol related parameters |
| hello-interval | Hello interval used between peers |
| <i>interval</i> | Interval in milliseconds |

Command Mode

- /exec/configure/vrf

mdt pim jp-interval

[no] mdt pim jp-interval <interval>

Syntax Description

| | |
|-----------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mdt | Backbone Multicast Distribution Tree |
| pim | PIM protocol related parameters |
| jp-interval | Join-Prune interval used between peers |
| <i>interval</i> | Interval in seconds |

Command Mode

- /exec/configure/vrf

mdt source

[no] mdt source <interface>

Syntax Description

| | |
|------------------|-----------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mdt | Backbone Multicast Distribution Tree |
| source | Source interface to be used in the backbone network |
| <i>interface</i> | Use IP address of this interface |

Command Mode

- /exec/configure/vrf

mdt v4 vxlan

[no] mdt v4 vxlan

Syntax Description

| | |
|-------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mdt | Default MDT support |
| v4 | Configure IP features |
| vxlan | Tenant Routed Multicast support for L3VNI |

Command Mode

- /exec/configure/vrf/vni-mode

mdt v6 vxlan

[no] mdt v6 vxlan

Syntax Description

| | |
|-------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mdt | Default MDT support |
| v6 | Configure IPv6 features |
| vxlan | Tenant Routed Multicast support for L3VNI |

Command Mode

- /exec/configure/vrf/vni-mode

media-type

media-type <media_type> | no media-type [<media_type>]

Syntax Description

| | |
|-------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| media-type | Select the media-type link |
| <i>media_type</i> | supporting media-type |

Command Mode

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

media-type auto

media-type auto

Syntax Description

| | |
|------------|----------------------------|
| media-type | Select the media-type link |
| auto | Select mgmt port as auto |

Command Mode

- /exec/configure/if-mgmt-ether

media-type rj45

media-type rj45

Syntax Description

| | |
|------------|----------------------------|
| media-type | Select the media-type link |
| rj45 | Select mgmt port rj45 |

Command Mode

- /exec/configure/if-mgmt-ether

media-type sfp

media-type sfp

Syntax Description

| | |
|------------|----------------------------|
| media-type | Select the media-type link |
| sfp | Select mgmt port sfp |

Command Mode

- /exec/configure/if-mgmt-ether

media

media <vlanshowinfo-media-type> | no media

Syntax Description

| | |
|--------------------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| media | Media type of the VLAN |
| <i>vlanshowinfo-media-type</i> | Select media type |

Command Mode

- /exec/configure/vlan

medium

medium <medium-type> | no medium <medium-type>

Syntax Description

| | |
|--------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| medium | Configure Interface medium mode |
| <i>medium-type</i> | |

Command Mode

- /exec/configure/if-vlan-common

medium broadcast

{ medium broadcast | no medium broadcast }

Syntax Description

| | |
|-----------|--------------------------------------|
| no | Negate a command or set its defaults |
| medium | Configure Interface medium mode |
| broadcast | Broadcast medium |

Command Mode

- /exec/configure/ppm-ethernet-switch /exec/configure/if-ether-sub /exec/configure/if-ether-sub-p2p /exec/configure/if-ethernet-all

medium broadcast

{ medium broadcast | no medium broadcast }

Syntax Description

| | |
|-----------|--------------------------------------|
| no | Negate a command or set its defaults |
| medium | Configure Interface medium mode |
| broadcast | Broadcast medium |

Command Mode

- /exec/configure/if-ethernet-p2p-switch /exec/configure/if-ethernet-p2p /exec/configure/if-ethernet-all /exec/configure/if-eth-l3-non-member /exec/configure/if-port-channel /exec/configure/if-remote-ethernet-sub /exec/configure/if-eth-port-channel-p2p /exec/configure/if-ethernet-p2p-m

medium p2p

{ medium p2p | no medium p2p }

Syntax Description

| | |
|--------|--------------------------------------|
| no | Negate a command or set its defaults |
| medium | Configure Interface medium mode |
| p2p | Point-to-Point medium |

Command Mode

- /exec/configure/if-ethernet-p2p-switch /exec/configure/if-ethernet-p2p /exec/configure/if-ethernet-all /exec/configure/if-eth-l3-non-member /exec/configure/if-port-channel /exec/configure/if-remote-ethernet-sub /exec/configure/if-eth-port-channel-p2p /exec/configure/if-ethernet-p2p-m

medium p2p

{ medium p2p | no medium p2p }

Syntax Description

| | |
|--------|--------------------------------------|
| no | Negate a command or set its defaults |
| medium | Configure Interface medium mode |
| p2p | Point-to-Point medium |

Command Mode

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

member

```
[no] member { device-alias <s0> [ lun <lun0> ] [ { initiator | target | both } ] | domain-id <i1> port-number
<i2> | fcalias <s1> | fcid <fcid3> [ lun1 <lun4> ] [ { initiator | target | both } ] | fwwn <wwn5> | interface
<if0> [ { domain-id1 <i6> | swwn <wwn7> } ] | pwwn <wwn9> [ lun2 <lun10> ] [ { initiator | target | both }
] | symbolic-nodename <s2> }
```

Syntax Description

| | |
|--------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| member | Add a member to zone |
| device-alias | Add device-alias member to zone |
| <i>s0</i> | Enter device-alias name |
| lun | (Optional) Add device-alias-LUN member to zone |
| <i>lun0</i> | (Optional) Enter LUN |
| initiator | (Optional) Enter device-type as initiator |
| target | (Optional) Enter device-type as target |
| both | (Optional) Enter device-type as both |
| domain-id | Add member based on domain-id,port-number |
| <i>i1</i> | Enter domain-id of a non-MDS switch |
| port-number | Add member based on domain-id,port-number |
| <i>i2</i> | Enter port number of a non-Cisco switch |
| fcalias | Add fcalias to zone |
| <i>s1</i> | Enter the name of fcalias |
| fcid | Add FCID member to zone |
| <i>fcid3</i> | Enter FCID |
| lun1 | (Optional) Add FCID-LUN member to zone |
| <i>lun4</i> | (Optional) Enter LUN |
| initiator | (Optional) Enter device-type as initiator |
| target | (Optional) Enter device-type as target |
| both | (Optional) Enter device-type as both |
| fwwn | Add Fabric Port WWN member to zone |

| | |
|-------------------|-------------------------------------------------|
| <i>wwn5</i> | Enter Fabric Port WWN |
| interface | Add member based on interface |
| <i>if0</i> | Enter Interface Range |
| domain-id1 | (Optional) Specify domain-id |
| <i>i6</i> | (Optional) Enter domain-id |
| swwn | (Optional) Specify switch-wwn for the interface |
| <i>wwn7</i> | (Optional) Enter switch wwn |
| pwwn | Add Port WWN member to zone |
| <i>wwn9</i> | Enter Port WWN |
| lun2 | (Optional) Add PortWWN-LUN member to zone |
| <i>lun10</i> | (Optional) Enter LUN |
| initiator | (Optional) Enter device-type as initiator |
| target | (Optional) Enter device-type as target |
| both | (Optional) Enter device-type as both |
| symbolic-nodename | Add Symbolic Node Name member to zone |
| <i>s2</i> | Enter symbolic node name |

Command Mode

- /exec/configure/zone

member

```
[no] member { device-alias <s0> [ lun <lun0> ] [ { initiator | target | both } ] | domain-id <i1> port-number <i2> | fcid <fcid3> [ lun1 <lun4> ] [ { initiator | target | both } ] | fwwn <wwn5> | interface <if0> [ { domain-id1 <i6> | swwn <wwn7> } ] | pwwn <wwn9> [ lun2 <lun10> ] [ { initiator | target | both } ] | symbolic-nodename <s1> }
```

Syntax Description

| | |
|--------------|---------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| member | Add a member to fcalias |
| device-alias | Add device-alias member to fcalias |
| <i>s0</i> | Enter device-alias name |
| lun | (Optional) Add device-alias-LUN member to fcalias |
| <i>lun0</i> | (Optional) Enter LUN |
| initiator | (Optional) Enter device-type as initiator |
| target | (Optional) Enter device-type as target |
| both | (Optional) Enter device-type as both |
| domain-id | Add member based on domain-id,port-number |
| <i>i1</i> | Enter domain-id of a non-MDS switch |
| port-number | Add member based on domain-id,port-number |
| <i>i2</i> | Enter port number of a non-Cisco switch |
| fcid | Add FCID member to fcalias |
| <i>fcid3</i> | Enter FCID |
| lun1 | (Optional) Add FCID-LUN member to fcalias |
| <i>lun4</i> | (Optional) Enter LUN |
| initiator | (Optional) Enter device-type as initiator |
| target | (Optional) Enter device-type as target |
| both | (Optional) Enter device-type as both |
| fwwn | Add Fabric Port WWN to fcalias |
| <i>wwn5</i> | Enter Fabric Port WWN |
| interface | Add member based on interface |

| | |
|-------------------|-------------------------------------------------|
| <i>if0</i> | Enter Interface |
| domain-id1 | (Optional) Specify domain-id |
| <i>i6</i> | (Optional) Enter domain-id |
| swwn | (Optional) Specify switch-wwn for the interface |
| <i>wwn7</i> | (Optional) Enter switch wwn |
| pwwn | Add Port WWN to fcalias |
| <i>wwn9</i> | Enter Port WWN |
| lun2 | (Optional) Add PortWWN-LUN member to fcalias |
| <i>lun10</i> | (Optional) Enter LUN |
| initiator | (Optional) Enter device-type as initiator |
| target | (Optional) Enter device-type as target |
| both | (Optional) Enter device-type as both |
| symbolic-nodename | Add Symbolic Node Name to fcalias |
| <i>s1</i> | Enter symbolic node name |

Command Mode

- /exec/configure/fcalias

member

[no] member <s0>

Syntax Description

| | |
|--------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| member | Add zone to zoneset |
| s0 | Enter the name of zone |

Command Mode

- /exec/configure/zoneset

member

```
[no] member { device-alias <s0> [ lun <lun0> ] [ { initiator | target | both } ] | domain-id <i1> port-number
<i2> | fcalias <s1> | fcid <fcid3> [ lun1 <lun4> ] [ { initiator | target | both } ] | fwwn <wwn5> | interface
<if0> [ { domain-id1 <i6> | swwn <wwn7> } ] | pwwn <wwn9> [ lun2 <lun10> ] [ { initiator | target | both }
] | symbolic-nodename <s2> }
```

Syntax Description

| | |
|--------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| member | Add a member to zone |
| device-alias | Add device-alias member to zone |
| <i>s0</i> | Enter device-alias name |
| lun | (Optional) Add device-alias-LUN member to zone |
| <i>lun0</i> | (Optional) Enter LUN |
| initiator | (Optional) Enter device-type as initiator |
| target | (Optional) Enter device-type as target |
| both | (Optional) Enter device-type as both |
| domain-id | Add member based on domain-id,port-number |
| <i>i1</i> | Enter domain-id of a non-MDS switch |
| port-number | Add member based on domain-id,port-number |
| <i>i2</i> | Enter port number of a non-Cisco switch |
| fcalias | Add fcalias to zone |
| <i>s1</i> | Enter the name of fcalias |
| fcid | Add FCID member to zone |
| <i>fcid3</i> | Enter FCID |
| lun1 | (Optional) Add FCID-LUN member to zone |
| <i>lun4</i> | (Optional) Enter LUN |
| initiator | (Optional) Enter device-type as initiator |
| target | (Optional) Enter device-type as target |
| both | (Optional) Enter device-type as both |
| fwwn | Add Fabric Port WWN member to zone |

| | |
|-------------------|-------------------------------------------------|
| <i>wwn5</i> | Enter Fabric Port WWN |
| interface | Add member based on interface |
| <i>if0</i> | Enter Interface Range |
| domain-id1 | (Optional) Specify domain-id |
| <i>i6</i> | (Optional) Enter domain-id |
| swwn | (Optional) Specify switch-wwn for the interface |
| <i>wwn7</i> | (Optional) Enter switch wwn |
| pwwn | Add Port WWN member to zone |
| <i>wwn9</i> | Enter Port WWN |
| lun2 | (Optional) Add PortWWN-LUN member to zone |
| <i>lun10</i> | (Optional) Enter LUN |
| initiator | (Optional) Enter device-type as initiator |
| target | (Optional) Enter device-type as target |
| both | (Optional) Enter device-type as both |
| symbolic-nodename | Add Symbolic Node Name to zone |
| <i>s2</i> | Enter symbolic node name |

Command Mode

- /exec/configure/zoneset/zone

member vlan

{ member vlan <vlan-range> } | { no member vlan [<vlan-range>] }

Syntax Description

| | |
|-------------------|-------------------------------------------------|
| no | Negate a command or set its defaults |
| member | Set fabricpath topology VLAN membership |
| vlan | Configure VLANs for Fabricpath Topology |
| <i>vlan-range</i> | VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19 |

Command Mode

- /exec/configure/fp-topology

member vni

{ member vni <vni-range> } | { no member vni [<vni-range>] }

Syntax Description

| | |
|------------------|-------------------------------------------|
| no | Negate a command or set its defaults |
| member | Set fabricpath topology VNI membership |
| vni | Configure VNIs for L2MP Topology |
| <i>vni-range</i> | vni range, Example: 4096, 4099-5013, 5019 |

Command Mode

- /exec/configure/fp-topology

member vni

[no] member vni <vni-range>

Syntax Description

| | |
|------------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| member | NVE VN-Segment Membership |
| vni | Virtual Network Identifier |
| <i>vni-range</i> | vni range, Example: 5000 or 5001-5008 |

Command Mode

- /exec/configure/if-nve

member vni associate-vrf

[no] member vni <vni-range> associate-vrf

Syntax Description

| | |
|------------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| member | NVE VN-Segment Membership |
| vni | Virtual Network Identifier |
| <i>vni-range</i> | vni range, Example: 5000 or 5001-5008 |
| associate-vrf | Associate vni with a vrf |

Command Mode

- /exec/configure/if-nve

memory

{ memory <memory-units> | no memory [<memory-units>] }

Syntax Description

| | |
|---------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| memory | Memory reservation MB units |
| <i>memory-units</i> | Memory reservation MB units |

Command Mode

- /exec/configure/app-hosting-resource-profile-custom

message-digest-key md5

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

Syntax Description

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

Command Mode

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

message-digest-key md5

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

Syntax Description

| | |
|--------------------|----------------------------------------------|
| no | Negate a command or set its defaults |
| message-digest-key | Message digest authentication password (key) |
| <i>keyid</i> | Key ID |
| md5 | Use MD5 algorithm |
| <i>key</i> | OSPF password (key) |

Command Mode

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

message max-size

message max-size <kbytes> | no message max-size

Syntax Description

| | |
|---------------|---------------------------------------------------|
| no | Negate a command or set its defaults |
| message | Setting message value |
| max-size | Max Message size |
| <i>kbytes</i> | Specify message size in kilobytes (Default 12288) |

Command Mode

- /exec/configure/telemetry/destination-group

method

```
{ [ no ] method <eap-method-name> }
```

Syntax Description

| | |
|------------------------|-----------------------|
| method | Eap method to be used |
| <i>eap-method-name</i> | eap-method |

Command Mode

- /exec/configure/eap-profile

metric-style transition

[no] metric-style { transition }

Syntax Description

| | |
|--------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| metric-style | Configure metric style used in advertised LSPs |
| transition | Use both narrow and wide metric style |

Command Mode

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

metric

[no] metric

Syntax Description

| | |
|--------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| metric | Candidate path-option metric entry |

Command Mode

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

metric

[no] metric

Syntax Description

| | |
|--------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| metric | Candidate path-option metric entry |

Command Mode

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

metric

{ [no] metric } | { metric <metric_num> }

Syntax Description

| | |
|-------------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| metric | Specify the interface metric |
| <i>metric_num</i> | SR TE Metric |

Command Mode

- /exec/configure/sr/te/if

metric direct 0

[no] metric direct 0

Syntax Description

| | |
|--------|-----------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| metric | Cost of direct routes |
| direct | Cost of direct routes |
| 0 | direct route cost is zero to be compatible with IOS |

Command Mode

- /exec/configure/router-rip

metric maximum-hops

{ { metric maximum-hops <hops> } | { no metric maximum-hops [<hops>] } }

Syntax Description

| | |
|--------------|-----------------------------------------------------------|
| no | Negate a command or set its defaults |
| metric | Modify EIGRP routing metrics and parameters |
| maximum-hops | Advertise EIGRP routes greater than <hops> as unreachable |
| <i>hops</i> | Hop count |

Command Mode

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

metric rib-scale

{ { metric rib-scale <rib-scale> } | { no metric rib-scale [<rib-scale>] } }

Syntax Description

| | |
|------------------|---------------------------------------------|
| no | Negate a command or set its defaults |
| metric | Modify EIGRP routing metrics and parameters |
| rib-scale | Defines RIB scaling value |
| <i>rib-scale</i> | Rib scale |

Command Mode

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

metric version 64bit

{ { metric version 64bit } | { no metric version [64bit] } }

Syntax Description

| | |
|---------|---------------------------------------------|
| no | Negate a command or set its defaults |
| metric | Modify EIGRP routing metrics and parameters |
| version | Modify EIGRP metric version |
| 64bit | 64 bit metric version |

Command Mode

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

metric weights

```
{ { metric weights <tos> <k1> <k2> <k3> <k4> <k5> [ <k6> ] } | { no metric weights [ <tos> <k1> <k2> <k3> <k4> <k5> [ <k6> ] ] } }
```

Syntax Description

| | |
|---------|---------------------------------------------|
| no | Negate a command or set its defaults |
| metric | Modify EIGRP routing metrics and parameters |
| weights | Modify EIGRP metric coefficients |
| tos | Type Of Service (Only TOS 0 supported) |
| k1 | K1 |
| k2 | K2 |
| k3 | K3 |
| k4 | K4 |
| k5 | K5 |
| k6 | (Optional) K6 |

Command Mode

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

mgmt-addr

[no] mgmt-addr <s0>

Syntax Description

| | |
|-----------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mgmt-addr | Management Address for the platform |
| s0 | Management addr string |

Command Mode

- /exec/configure/fcs-register/attrib

min-ls-arrival

{ min-ls-arrival <i0> | no min-ls-arrival [<i0>] }

Syntax Description

| | |
|----------------|--------------------------------------|
| no | Negate a command or set its defaults |
| min-ls-arrival | Configure Min LS Arrival |
| <i>i0</i> | Min LS Arrival (in msec) |

Command Mode

- /exec/configure/(fspf-config)

min-ls-interval

{ min-ls-interval <i0> | no min-ls-interval [<i0>] }

Syntax Description

| | |
|-----------------|--------------------------------------|
| no | Negate a command or set its defaults |
| min-ls-interval | Configure Min LS interval |
| <i>i0</i> | Min LS interval (in msec) |

Command Mode

- /exec/configure/(fspf-config)

mkdir

mkdir <uri0>

Syntax Description

| | |
|-------------|----------------------|
| mkdir | Create new directory |
| <i>uri0</i> | Directory name |

Command Mode

- /exec

mode

{ mode <conn-mode> } | { no mode <conn-mode> }

Syntax Description

| | |
|------------------|----------------------------------------|
| no | Negate a command or set its defaults |
| mode | EPBR service end-point connection mode |
| <i>conn-mode</i> | connection mode |

Command Mode

- /exec/configure/epbr/svc

mode

[no] mode <vmode>

Syntax Description

| | |
|--------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mode | Operational mode of the VLAN |
| <i>vmode</i> | |

Command Mode

- /exec/configure/vlan

mode

[no] mode { none | hybrid | non-hybrid }

Syntax Description

| | |
|------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mode | PTP profile mode |
| none | No mode selected |
| hybrid | Hybrid mode |
| non-hybrid | Non-hybrid mode |

Command Mode

- /exec/configure/ptp-profile

mode

[no] mode <mode-id>

Syntax Description

| | |
|----------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mode | Hot-standby mode |
| <i>mode-id</i> | Node Mode |

Command Mode

- /exec/configure/itd-dg-node

mode flow-redirect

[no] mode flow-redirect

Syntax Description

| | |
|---------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mode | Configure the interface operational mode |
| flow-redirect | Disable/Enable flow-redirect on the interface |

Command Mode

- /exec/configure/if-port-channel /exec/configure/if-ethernet-all /exec/configure/if-eth-base /exec/configure/if-ethernet-switch

mode flowlet

mode { flowlet | per-packet } | no mode

Syntax Description

| | |
|------------|--------------------------------------|
| no | Negate a command or set its defaults |
| mode | DLB Mode |
| flowlet | Per flowlet load-balancing |
| per-packet | Per packet load-balancing |

Command Mode

- /exec/configure/dyn-loadbalancing

mode hot-standby

[no] mode hot-standby

Syntax Description

| | |
|-------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mode | EPBR service end-point node redundancy mode |
| hot-standby | Mode hot-standby |

Command Mode

- /exec/configure/epbr/fwd-svc

mode interface

[no] mode { interface | vlan }

Syntax Description

| | |
|-----------|----------------------------|
| mode | De-Duplication config mode |
| interface | Interface mode |
| vlan | Vlan mode |

Command Mode

- /exec/configure/de-duplication

mode tap-aggregation

[no] mode tap-aggregation [{ vlan <vlan_id> }]

Syntax Description

| | |
|-----------------|----------------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mode | Configure the interface operational mode |
| tap-aggregation | Disable/Enable tap aggregation on the interface |
| vlan | (Optional) vlan that is to be tagged in outgoing packets |
| <i>vlan_id</i> | (Optional) Vlan ID |

Command Mode

- /exec/configure/if-switching

module transceiver-frequency

[no] module <module> transceiver-frequency { <xcvr_frequency> }

Syntax Description

| | |
|-----------------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| module | Configure for module |
| <i>module</i> | Enter module number |
| transceiver-frequency | Configure X2 transceiver frequency type |
| <i>xcvr_frequency</i> | Enter transceiver frequency type |

Command Mode

- /exec/configure

monitor erspan granularity

[no] monitor erspan granularity { 100_us | 100_ns | 1588 | ns }

Syntax Description

| | |
|-------------|----------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| monitor | Configure Ethernet SPAN sessions |
| erspan | Configure Ethernet ERSPAN sessions |
| granularity | Configure granularity for ERSPAN Type III sessions |
| 100_us | 100 microseconds |
| 100_ns | 100 nanoseconds |
| 1588 | 1588 in seconds/nanoseconds |
| ns | nanoseconds |

Command Mode

- /exec/configure

monitor erspan origin ip-address

[no] monitor erspan origin ip-address <ip> [global]

Syntax Description

| | |
|------------|-----------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| monitor | Configure Ethernet SPAN sessions |
| erspan | Configure Ethernet ERSPAN sessions |
| origin | Configure the erspan origin ip address |
| ip-address | Configure global origin IP address |
| <i>ip</i> | |
| global | (Optional) Configure in default VDC across all VDCs |

Command Mode

- /exec/configure

monitor erspan origin ipv6-address

[no] monitor erspan origin ipv6-address <ipv6> [global]

Syntax Description

| | |
|--------------|-----------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| monitor | Configure Ethernet SPAN sessions |
| erspan | Configure Ethernet ERSPAN sessions |
| origin | Configure the erspan origin ipv6 address |
| ipv6-address | Configure global origin IPv6 address |
| <i>ipv6</i> | |
| global | (Optional) Configure in default VDC across all VDCs |

Command Mode

- /exec/configure

monitor input

[no] monitor <monitorname> input

Syntax Description

| | |
|--------------------|-----------------------------------|
| monitor | Specify the monitor to be applied |
| <i>monitorname</i> | Monitor name to be applied |
| input | Specify the direction |

Command Mode

- /exec/configure/analytics/system

monitor input

[no] monitor <monitorname> input

Syntax Description

| | |
|--------------------|-----------------------------------|
| monitor | Specify the monitor to be applied |
| <i>monitorname</i> | Monitor name to be applied |
| input | Specify the direction |

Command Mode

- /exec/configure/nfm-system

monitor session

monitor session <session_number> [type local]

Syntax Description

| | |
|-----------------------|-----------------------------------|
| monitor | Configure Ethernet SPAN sessions |
| session | Configure session preferences |
| <i>session_number</i> | |
| type | (Optional) Specify a session type |
| local | (Optional) Create a local session |

Command Mode

- /exec/configure

monitor session shut

[no] monitor session { all | <session_range> } [shut] | monitor session { all | <session_range> } shut

Syntax Description

| | |
|----------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| monitor | Configure Ethernet SPAN sessions |
| session | Configure session preferences |
| all | All sessions |
| <i>session_range</i> | |
| shut | (Optional) Shut the selected session |

Command Mode

- /exec/configure

monitor session type acl-capture

monitor session <session_number> type acl-capture

Syntax Description

| | |
|-----------------------|----------------------------------|
| monitor | Configure Ethernet SPAN sessions |
| session | Configure session preferences |
| <i>session_number</i> | |
| type | Specify a session type |
| acl-capture | Create an acl-capture session |

Command Mode

- /exec/configure

monitor session type erspan-destination

monitor session <session_number> type erspan-destination

Syntax Description

| | |
|-----------------------|--------------------------------------|
| monitor | Configure Ethernet SPAN sessions |
| session | Configure session preferences |
| <i>session_number</i> | |
| type | Specify a session type |
| erspan-destination | Create an erspan destination session |

Command Mode

- /exec/configure

monitor session type erspan-source

monitor session <session_number> type erspan-source

Syntax Description

| | |
|-----------------------|----------------------------------|
| monitor | Configure Ethernet SPAN sessions |
| session | Configure session preferences |
| <i>session_number</i> | |
| type | Specify a session type |
| erspan-source | Create an erspan source session |

Command Mode

- /exec/configure

monitor session warp

[no] monitor session warp

Syntax Description

| | |
|---------|--------------------------------------|
| no | Negate a command or set its defaults |
| monitor | Configure Ethernet SPAN sessions |
| session | Configure session preferences |
| warp | Configure Warp span mode |

Command Mode

- /exec/configure

monitor session warp

monitor session warp [type local]

Syntax Description

| | |
|---------|-----------------------------------|
| monitor | Configure Ethernet SPAN sessions |
| session | Configure session preferences |
| warp | Create warp session |
| type | (Optional) Specify a session type |
| local | (Optional) Create a local session |

Command Mode

- /exec/configure

mount

mount { usb1: | usb2: }

Syntax Description

| | |
|-------|--------------------------------------|
| mount | mount expansion flash or USB storage |
| usb1: | mount USB drive in port 1 |
| usb2: | mount USB drive in port 2 |

Command Mode

- /exec

mount slot0

mount slot0:

Syntax Description

| | |
|--------|--------------------------------------|
| mount | mount expansion flash or USB storage |
| slot0: | mount expansion flash |

Command Mode

- /exec

move

move <uri0> <uri1>

Syntax Description

| | |
|-------------|-----------------------|
| move | Move files |
| <i>uri0</i> | Source file path |
| <i>uri1</i> | Destination file path |

Command Mode

- /exec

mpls

[no] mpls

Syntax Description

| | |
|------|----------------------------------------------------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mpls | Configure Traffic Engineering Segment Routing MPLS liveness detection related configurations |

Command Mode

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

mpls

[no] mpls

Syntax Description

| | |
|------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mpls | Enable Segment Routing MPLS |

Command Mode

- /exec/configure/config-sr

mpls

[no] mpls

Syntax Description

| | |
|------|-------------------------------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mpls | Configure color specific MPLS liveness detection related configurations |

Command Mode

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

mpls

[no] mpls

Syntax Description

| | |
|------|-------------------------------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mpls | Configure color specific MPLS liveness detection related configurations |

Command Mode

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

mpls access-list

[no] mpls access-list <mpls_name>

Syntax Description

| | |
|------------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mpls | MPLS access-list configuration commands |
| access-list | Configure access list |
| <i>mpls_name</i> | List name |

Command Mode

- /exec/configure

mpls ip

[no] mpls ip

Syntax Description

| | |
|------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mpls | MPLS configuration commands |
| ip | Enable IP over MPLS |

Command Mode

- /exec/configure/if-igp /exec/configure/if-mpls-tunnel

mpls ip default-route

[no] mpls ip default-route

Syntax Description

| | |
|---------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mpls | MPLS configuration commands |
| ip | Dynamic MPLS forwarding for IP |
| default-route | Allow MPLS forwarding for ip default route |

Command Mode

- /exec/configure/ldp

mpls ip forwarding

[no] mpls ip forwarding

Syntax Description

| | |
|------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mpls | MPLS configuration commands |
| ip | Enable IP over MPLS |
| forwarding | Enable MPLS forwarding on the interface |

Command Mode

- /exec/configure/if-ethernet /exec/configure/if-ethernet-all /exec/configure/if-ether-sub
/exec/configure/if-eth-port-channel /exec/configure/if-port-channel-sub
/exec/configure/if-port-channel-range /exec/configure/if-vlan-common /exec/configure/if-mvpn
/exec/configure/if-p2p exec/configure/ppm-ethernet-switch

mpls ip propagate-ttl

mpls ip propagate-ttl | no mpls ip propagate-ttl [forwarded | local]

Syntax Description

| | |
|---------------|----------------------------------------------------------------------------|
| no | Negate a command or set its defaults |
| mpls | MPLS configuration commands |
| ip | Configure IP features |
| propagate-ttl | Configure IP ttl propagation over mpls |
| forwarded | (Optional) Prevent traceroute from showing the hops for forwarded packets |
| local | (Optional) Prevent traceroute from showing the hops only for local packets |

Command Mode

- /exec/configure

mpls ip ttl-expiration pop

[no] mpls ip ttl-expiration pop [<labels>]

Syntax Description

| | |
|----------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mpls | MPLS configuration commands |
| ip | Configure IP features |
| ttl-expiration | Configure ttl-expiration |
| pop | Pop |
| <i>labels</i> | (Optional) Number of labels |

Command Mode

- /exec/configure

mpls label range

[no] mpls label range <min-label> <max-label> [static <min-static-label> <max-static-label>]

Syntax Description

| | |
|-------------------------|--------------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mpls | MPLS configuration commands |
| label | Label properties |
| range | Label range |
| <i>min-label</i> | Minimum label value |
| <i>max-label</i> | Maximum label value |
| static | (Optional) Specify block of labels for static bindings |
| <i>min-static-label</i> | (Optional) Minimum static label value |
| <i>max-static-label</i> | (Optional) Maximum static label value |

Command Mode

- /exec/configure

mpls load-sharing label-ip

[no] mpls load-sharing label-ip

Syntax Description

| | |
|--------------|-----------------------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mpls | Configure Load sharing for Portchannel and ECMP based on labels |
| load-sharing | Load sharing for Portchannel and ECMP based on labels |
| label-ip | Load sharing based on label and IP |

Command Mode

- /exec/configure

mpls load-sharing label-only

[no] mpls load-sharing label-only

Syntax Description

| | |
|--------------|-----------------------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mpls | Configure Load sharing for Portchannel and ECMP based on labels |
| load-sharing | Load sharing for Portchannel and ECMP based on labels |
| label-only | Load sharing based on label only |

Command Mode

- /exec/configure

mpls port access-group

[no] mpls port access-group <mpls_name> <inout>

Syntax Description

| | |
|------------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mpls | MPLS access-list configuration commands |
| port | Port policy |
| access-group | Specify access control for packets |
| <i>mpls_name</i> | List name |
| <i>inout</i> | Traffic direction |

Command Mode

- /exec/configure/if-set-acl-l2

mpls qos pipe-mode

mpls qos pipe-mode | no mpls qos pipe-mode

Syntax Description

| | |
|-----------|--------------------------------------|
| no | negate a command or set its defaults |
| mpls | mpls configuration commands |
| qos | qos |
| pipe-mode | pipe mode |

Command Mode

- /exec/configure

mpls static configuration

[no] mpls static configuration

Syntax Description

| | |
|---------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mpls | MPLS configuration commands |
| static | Configure Static Label Bindings |
| configuration | Enter MPLS Static global configuration submode |

Command Mode

- /exec/configure

mpls strip

[no] mpls strip [{ mode dot1q }]

Syntax Description

| | |
|-------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mpls | MPLS information |
| strip | Stripping of MPLS headers |
| mode | (Optional) Mode for MPLS Strip |
| dot1q | (Optional) Mode for enabling vlan tagging |

Command Mode

- /exec/configure

mpls strip label

[no] mpls strip label { <value> } [interface <interface-name>] | no mpls strip label all

Syntax Description

| | |
|-----------------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mpls | MPLS information |
| strip | Stripping of MPLS headers |
| label | Add a static label in database |
| <i>value</i> | 20 bit value for label |
| all | Delete all static labels |
| interface | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| <i>interface-name</i> | (Optional) Interface name |

Command Mode

- /exec/configure

mpls traffic-eng

[no] mpls traffic-eng <level>

Syntax Description

| | |
|--------------|-------------------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mpls | Configure MPLS parameters |
| traffic-eng | Routing protocol commands for MPLS Traffic Engineering (TE) |
| <i>level</i> | IS-IS level |

Command Mode

- /exec/configure/router-isis

mpls traffic-eng multicast-intact

[no] mpls traffic-eng multicast-intact

Syntax Description

| | |
|------------------|-------------------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mpls | Configure MPLS parameters |
| traffic-eng | Routing protocol commands for MPLS Traffic Engineering (TE) |
| multicast-intact | Configure MPLS-TE multicast interaction |

Command Mode

- /exec/configure/router-isis

mpls traffic-eng router-id

[no] mpls traffic-eng router-id <interface>

Syntax Description

| | |
|------------------|-------------------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mpls | Configure MPLS parameters |
| traffic-eng | Routing protocol commands for MPLS Traffic Engineering (TE) |
| router-id | Routing protocol commands for MPLS Traffic Engineering (TE) |
| <i>interface</i> | IS-IS interface |

Command Mode

- /exec/configure/router-isis

mpls ttl-mode php uniform

[no] mpls ttl-mode php uniform

Syntax Description

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

Command Mode

- /exec

mst designated priority

mst <mst-id> designated priority <prio> | no mst <mst-id> designated priority [<prio>]

Syntax Description

| | |
|---------------|----------------------------------------------------------|
| no | Negate a command or set its defaults |
| mst | Multiple spanning tree configuration |
| <i>mst-id</i> | MST instance range, example: 0-3,5,7-9 |
| designated | Set the designated bridge priority for the spanning tree |
| priority | Set the bridge priority for the spanning tree |
| <i>prio</i> | bridge priority in increments of 4096 |

Command Mode

- /exec/configure/spanning-tree/pseudo

mst root priority

mst <mst-id> root priority <prio> | no mst <mst-id> root priority [<prio>]

Syntax Description

| | |
|---------------|----------------------------------------------------|
| no | Negate a command or set its defaults |
| mst | Multiple spanning tree configuration |
| <i>mst-id</i> | MST instance range, example: 0-3,5,7-9 |
| root | Set the root bridge priority for the spanning tree |
| priority | Set the bridge priority for the spanning tree |
| <i>prio</i> | bridge priority in increments of 4096 |

Command Mode

- /exec/configure/spanning-tree/pseudo

mtrace

```
mtrace <source> [ <receiver> ] [ <group> ] [ vrf <vrf-known-name> ]
```

Syntax Description

| | |
|-----------------------|---------------------------|
| mtrace | Trace |
| <i>source</i> | IP |
| <i>receiver</i> | (Optional) IP |
| <i>group</i> | (Optional) IP |
| vrf | (Optional) VRF |
| <i>vrf-known-name</i> | (Optional) Known VRF name |

Command Mode

- /exec

mts-buildup check

mts-buildup check { [mts-percent <percent> detect-intvl <d_intvl>] } | no mts-buildup check

Syntax Description

| | |
|----------------|------------------------------------------|
| no | Negate a command |
| mts-buildup | MTS build up |
| check | MTS build up check |
| mts-percent | (Optional) MTS buildup percent |
| <i>percent</i> | (Optional) percent value |
| detect-intvl | (Optional) Interval to check MTS buildup |
| <i>d_intvl</i> | (Optional) Interval to check MTS buildup |

Command Mode

- /exec/configure

mts callhome age

```
{ mts callhome age <i0> | no mts callhome age [ <i0> ] }
```

Syntax Description

| | |
|-----------|------------------------------------------------------------------|
| no | Negate a command or set its defaults |
| mts | MTS component |
| callhome | sending callhome message |
| age | Enter the age of message in minutes for MTS to generate callhome |
| <i>i0</i> | number of minutes |

Command Mode

- /exec/configure

mts latency threshold sup

{ mts latency threshold { sup | lc } <i0> | no mts latency threshold { sup | lc } [<i0>] }

Syntax Description

| | |
|-----------|---------------------------------------------------------------------|
| no | Negate a command or set its defaults |
| mts | MTS component |
| latency | message delay |
| threshold | Enter threshold of message delay in msec to log to MTS eventhistory |
| sup | set only in sup |
| lc | set only in lc |
| <i>i0</i> | number of msec |

Command Mode

- /exec/configure

mtu

mtu <mtu_value> | no mtu

Syntax Description

| | |
|------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| mtu | Set the MTU size for ERSPAN packets |
| <i>mtu_value</i> | |

Command Mode

- /exec/configure/monitor-erspan-src

mtu1

[no] mtu1 <value>

Syntax Description

| | |
|--------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mtu1 | MTU for the CoS |
| <i>value</i> | MTU value |

Command Mode

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

mtu

mtu <mtu_value> | no mtu

Syntax Description

| | |
|------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| mtu | Set the MTU size for SPAN packets |
| <i>mtu_value</i> | |

Command Mode

- /exec/configure/monitor-local-src

mtu

mtu <mtu-val> | no mtu [<mtu-val>]

Syntax Description

| | |
|----------------|--------------------------------------|
| no | Negate a command or set its defaults |
| mtu | Configure MTU |
| <i>mtu-val</i> | Bytes |

Command Mode

- /exec/configure/if-any-tunnel

mtu

[no] mtu <value>

Syntax Description

| | |
|--------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mtu | MTU for the CoS |
| <i>value</i> | MTU value |

Command Mode

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

mtu

[no] mtu <mtu>

Syntax Description

| | |
|------------|---------------------------|
| mtu | MTU |
| <i>mtu</i> | MTU port to be configured |

Command Mode

- /exec/configure/config-ssx-exporter

mtu

mtu <mtu_val> | no mtu

Syntax Description

| | |
|----------------|---------------------------------------------------|
| no | Negate a command or set its defaults |
| mtu | Set the interface Maximum Transmission Unit (MTU) |
| <i>mtu_val</i> | MTU size in bytes |

Command Mode

- /exec/configure/if-vlan-common

mtu

mtu <mtu_val> | no mtu [<mtu_val>]

Syntax Description

| | |
|----------------|--------------------------------------|
| no | Negate a command or set its defaults |
| mtu | Configure mtu for the port |
| <i>mtu_val</i> | |

Command Mode

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

mtu

mtu <mtu_val> | no mtu [<mtu_val>]

Syntax Description

| | |
|----------------|--------------------------------------|
| no | Negate a command or set its defaults |
| mtu | Configure mtu for the port |
| <i>mtu_val</i> | Enter MTU |

Command Mode

- /exec/configure/if-mgmt-ether

multi-topology

[no] multi-topology [transition]

Syntax Description

| | |
|----------------|----------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| multi-topology | Enable multitopology for IPV6 |
| transition | (Optional) Configure multitopology transition mode |

Command Mode

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

multicast

[no] multicast <mode_enum>

Syntax Description

| | |
|------------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| multicast | Enable multicast best-effort |
| <i>mode_enum</i> | |

Command Mode

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

multicast flow-path disable-stats-table

[no] multicast flow-path disable-stats-table

Syntax Description

| | |
|---------------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| multicast | multicast |
| flow-path | service-reflect |
| disable-stats-table | Ingress interface |

Command Mode

- /exec/configure

multicast flow-path export

[no] multicast flow-path export

Syntax Description

| | |
|-----------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| multicast | multicast |
| flow-path | service-reflect |
| export | Ingress interface |

Command Mode

- /exec/configure

multicast service-reflect map interface

```
[no] multicast service-reflect { interface { <if-name> | all } | dest-prefix <prefix> } map interface <serv-if-name>
[ max-replication <repl-count> ]
```

Syntax Description

| | |
|---------------------|----------------------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| multicast | multicast |
| service-reflect | service-reflect |
| interface | Oif interface |
| <i>if-name</i> | Interface name |
| all | Interface all |
| dest-prefix | Destination Prefix |
| <i>prefix</i> | Destination prefix |
| map | map to service interface |
| interface | Service interface |
| <i>serv-if-name</i> | Service Interface name |
| max-replication | (Optional) Max number of replications on the service-interface |
| <i>repl-count</i> | (Optional) Count of sub-interfaces to be created |

Command Mode

- /exec/configure /exec/configure/vrf

multiplier multiplier

{ [no] multiplier | multiplier <multiplier> }

Syntax Description

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

Command Mode

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

multisite border-gateway interface

[no] multisite border-gateway interface <interface>

Syntax Description

| | |
|------------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| multisite | VxLAN Multisite |
| border-gateway | VxLAN Multisite Border-gateway |
| interface | NVE Multisite Border-gateway Interface |
| <i>interface</i> | |

Command Mode

- /exec/configure/if-nve

multisite ingress-replication

multisite ingress-replication [optimized] | no multisite ingress-replication

Syntax Description

| | |
|---------------------|----------------------------------------|
| no | Negate a command or set its defaults |
| multisite | multisite |
| ingress-replication | Configure ingress replication |
| optimized | (Optional) Switch to optimized IR mode |

Command Mode

- /exec/configure/if-nve/vni

multisite mcast-group

multisite mcast-group <dcf-core-group> | no multisite mcast-group

Syntax Description

| | |
|-----------------------|--------------------------------------|
| no | Negate a command or set its defaults |
| multisite | multisite |
| mcast-group | NVE Multicast Group |
| <i>dcf-core-group</i> | Multicast IP Prefix |

Command Mode

- /exec/configure/if-nve/vni

multisite virtual-rmac

[no] multisite virtual-rmac <mac> | no multisite virtual-rmac

Syntax Description

| | |
|--------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| multisite | multisite |
| virtual-rmac | Static Virtual RMAC configuration |
| <i>mac</i> | Specify Virtual Router MAC Address |

Command Mode

- /exec/configure/if-nve

mvpn vri id

{ mvpn vri id <value> } | { no mvpn vri id [<value>] }

Syntax Description

| | |
|--------------|--------------------------------------|
| no | Negate a command or set its defaults |
| mvpn | Configure VRI ID for Multicast VPN |
| vri | Generate VRI for all L3VNIs |
| id | Generate VRI with VNI:ID format |
| <i>value</i> | Specify 2 byte value for ID |

Command Mode

- /exec/configure/router-bgp

mvr-config

[no] mvr-config

Syntax Description

| | |
|------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mvr-config | Enable IGMP MVR |

Command Mode

- /exec/configure

mvr-group

[no] mvr-group { <ip-addr> [count <count> | <ip-mask>] } [{ vlan <vlan-id> }]

Syntax Description

| | |
|----------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mvr-group | MVR Group |
| <i>ip-addr</i> | Group IP Address |
| count | (Optional) Number of contiguous groups |
| <i>count</i> | (Optional) Number of contiguous groups |
| <i>ip-mask</i> | (Optional) IP network mask in format m.m.m.m |
| vlan | (Optional) Global default MVR vlan |
| <i>vlan-id</i> | (Optional) Enter MVR Vlan |

Command Mode

- /exec/configure/igmp-mvr-global

mvr-group

```
[no] mvr-group { { <ip-prefix> } [ { vlan <vlan-id> } ] }
```

Syntax Description

| | |
|------------------|-------------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mvr-group | MVR Group |
| <i>ip-prefix</i> | IP prefix and network mask length in format x.x.x.x/m |
| vlan | (Optional) Global default MVR vlan |
| <i>vlan-id</i> | (Optional) Enter MVR Vlan |

Command Mode

- /exec/configure/igmp-mvr-global

mvr-group

[no] mvr-group { <ip-addr> [count <count> | <ip-mask>] } [{ vlan <vlan-id> }]

Syntax Description

| | |
|----------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mvr-group | MVR interface config |
| <i>ip-addr</i> | Group IP Address |
| count | (Optional) Number of contiguous groups |
| <i>count</i> | (Optional) Number of contiguous groups |
| <i>ip-mask</i> | (Optional) IP network mask in format m.m.m.m |
| vlan | (Optional) Global default MVR vlan |
| <i>vlan-id</i> | (Optional) Enter MVR Vlan |

Command Mode

- /exec/configure/if-ethernet-switch /exec/configure/if-ethernet-all /exec/configure/if-eth-port-channel-switch /exec/configure/if-ethernet-p2p-switch /exec/configure/if-remote-ethernet-switch

mvr-group

```
[no] mvr-group { { <ip-prefix> } [ { vlan <vlan-id> } ] }
```

Syntax Description

| | |
|------------------|-------------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mvr-group | MVR interface config |
| <i>ip-prefix</i> | IP prefix and network mask length in format x.x.x.x/m |
| vlan | (Optional) Global default MVR vlan |
| <i>vlan-id</i> | (Optional) Enter MVR Vlan |

Command Mode

- /exec/configure/if-ethernet-switch /exec/configure/if-ethernet-all /exec/configure/if-eth-port-channel-switch /exec/configure/if-ethernet-p2p-switch /exec/configure/if-remote-ethernet-switch

mvr-suppress-query vlan

```
{ { mvr-suppress-query vlan <vlan-range> } | { no mvr-suppress-query } }
```

Syntax Description

| | |
|--------------------|---------------------------------------------------|
| no | Negate a command or set its defaults |
| mvr-suppress-query | Suppress IGMP General query forwarding from vlans |
| vlan | MVR Vlan Id or ranges |
| <i>vlan-range</i> | VLAN ID 1-3967 or range(s): 1-5, 10 or 2-5,7-19 |

Command Mode

- /exec/configure/igmp-mvr-global

mvr-type receiver

[no] mvr-type receiver

Syntax Description

| | |
|----------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mvr-type | MVR interface config |
| receiver | Mvr receiver port |

Command Mode

- /exec/configure/if-ethernet-switch /exec/configure/if-ethernet-all /exec/configure/if-eth-port-channel-switch /exec/configure/if-ethernet-p2p-switch /exec/configure/if-remote-ethernet-switch

mvr-type source

[no] mvr-type source

Syntax Description

| | |
|----------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mvr-type | MVR interface config |
| source | Mvr source port |

Command Mode

- /exec/configure/if-ethernet-switch /exec/configure/if-ethernet-all /exec/configure/if-eth-port-channel-switch /exec/configure/if-ethernet-p2p-switch /exec/configure/if-remote-ethernet-switch

mvr-vlan

{ { no mvr-vlan <vlan-id> } | { mvr-vlan <vlan-id> } }

Syntax Description

| | |
|----------------|--------------------------------------|
| no | Negate a command or set its defaults |
| mvr-vlan | Interface MVR Config |
| <i>vlan-id</i> | Enter MVR Vlan |

Command Mode

- /exec/configure/if-ethernet-switch /exec/configure/if-ethernet-all /exec/configure/if-eth-port-channel-switch /exec/configure/if-ethernet-p2p-switch /exec/configure/if-remote-ethernet-switch

mvr-vlan

[no] mvr-vlan <vlan-id>

Syntax Description

| | |
|----------------|-------------------------------------------------|
| no | (Optional) Negate a command or set its defaults |
| mvr-vlan | Global default MVR vlan |
| <i>vlan-id</i> | Enter MVR Vlan |

Command Mode

- /exec/configure/igmp-mvr-global