



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-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

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

Syntax Description

no	Negate a command or set its defaults
mac	MAC configuration commands
address-table	MAC Address Table
limit	Restrict number of Mac addresses learnt
system	System-wide
vlan	VLAN
<i>id</i>	List of VLAN ids
interface	Interface
<i>interface-name</i>	Interface name
<i>limitcount</i>	Mac address limit count
actiondrop	(Optional) Drop packets instead of flooding
__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 <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>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 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 { { 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

[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 { <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
<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 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 address

[no] match <ip_ipv6_mac> address <name>

Syntax Description

no	(Optional) Negate a command or set its defaults
match	Specify the match clause
<i>ip_ipv6_mac</i>	IP/IPv6/MAC
address	Match an access list
<i>name</i>	List name

Command Mode

- /exec/configure/vacl

match as-number

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

Syntax Description

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 <cmmap-name>

Syntax Description

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

Command Mode

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

match community

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

Syntax Description

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

Command Mode

- /exec/configure/route-map

match cos

[no] match cos <cos-list>

Syntax Description

<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 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 datalink

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

Syntax Description

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

Command Mode

- /exec/configure/config-fte-record

match datalink

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

Syntax Description

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

Command Mode

- /exec/configure/nfm-record

match dscp

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

Syntax Description

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

Command Mode

- /exec/configure/color-cmap

match dscp

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

Syntax Description

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 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>I</i>	1

Command Mode

- /exec/configure/route-map

match exception

```
[no] match exception { { ip | ipv6 } { option | { icmp { redirect | unreachable } } | multicast } } | 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
municast	IP unicast packets with multicast MAC
ttl-failure	Failed in ttl
mtu-failure	mtu-failure
glean	Glean packets
multicast	multicast packets
rpf-failure	multicast rpf check failure
sg-rpf-failure	multicast sg rpf check failure
dest-miss	L3 multicast destination lookup failure
ipv6-rpf-failure	IPv6 multicast rpf check failure
ipv6-sg-rpf-failure	IPv6 multicast sg rpf check failure
ipv6-dest-miss	IPv6 L3 multicast destination lookup failure
nat-flow	ipv4 software nat flow packets
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 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 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

[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-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/config-fte-record

match ipv4 source address

[no] match ipv4 { source | destination } address

Syntax Description

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

Command Mode

- /exec/configure/nfm-record

match ipv4 transport destination

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

Syntax Description

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

Command Mode

- /exec/configure/config-fte-record

match ipv6

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

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

```
[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 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-sess-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-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

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

Command Mode

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

match redirect

[no] match redirect <opt_match_redirect>

Syntax Description

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

Command Mode

- /exec/configure/cmap

match route-type

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

Syntax Description

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

Command Mode

- /exec/configure/route-map

match 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/analytics/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/nfm-record

max-backoff

max-backoff <maxbackoff-val> | no max-backoff

Syntax Description

no	Negate a command or set its defaults
max-backoff	OpenFlow controller maximum backoff timer (default is 8 seconds)
<i>maxbackoff-val</i>	max backoff timer value in secs

Command Mode

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

max-backoff

max-backoff <maxbackoff-val> | no max-backoff

Syntax Description

no	Negate a command or set its defaults
max-backoff	OpenFlow controller maximum backoff timer (default is 8 seconds)
<i>maxbackoff-val</i>	max backoff timer value in secs

Command Mode

- /exec/configure/openflow/switch

max-lsa

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

Syntax Description

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

Command Mode

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

max-lsa

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

Syntax Description

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

Command Mode

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

max-lsp-lifetime

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

Syntax Description

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/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/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 <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	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 <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-ipv4 /exec/configure/router-bgp/router-bgp-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-l2vpn-vpls

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 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> }] | 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 Gateway
gateway	mDNS Gateway Configuration

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

medium broadcast

{ medium broadcast | no medium broadcast }

Syntax Description

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

Command Mode

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

medium p2p

{ medium p2p | no medium p2p }

Syntax Description

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

Command Mode

- /exec/configure/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

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

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
<i>s0</i>	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

[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

{ 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 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>	OSPF password (key)

Command Mode

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

message-digest-key md5

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

Syntax Description

no	Negate a command or set its defaults
message-digest-key	Message digest authentication password (key)
<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

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
<i>tos</i>	Type Of Service (Only TOS 0 supported)
<i>k1</i>	K1
<i>k2</i>	K2
<i>k3</i>	K3
<i>k4</i>	K4
<i>k5</i>	K5
<i>k6</i>	(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

[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 <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

{ 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 <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 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/nfm-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/analytics/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

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

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

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	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 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	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 <name>

Syntax Description

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

Command Mode

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

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 area

[no] mpls traffic-eng area <area-id-ip>

Syntax Description

no	(Optional) Negate a command or set its defaults
mpls	OSPF MPLS configuration commands
traffic-eng	OSPF MPLS Traffic Engineering commands
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address

Command Mode

- /exec/configure/router-ospf

mpls traffic-eng multicast-intact

[no] mpls traffic-eng multicast-intact

Syntax Description

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

Command Mode

- /exec/configure/router-isis

mpls traffic-eng multicast-intact

[no] mpls traffic-eng multicast-intact

Syntax Description

no	(Optional) Negate a command or set its defaults
mpls	OSPF MPLS configuration commands
traffic-eng	OSPF MPLS Traffic Engineering commands
multicast-intact	MPLS TE multicast support

Command Mode

- /exec/configure/router-ospf

mpls traffic-eng router-id

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

Syntax Description

no	(Optional) Negate a command or set its defaults
mpls	OSPF MPLS configuration commands
traffic-eng	OSPF MPLS Traffic Engineering commands
router-id	Router ID associated with TE
<i>interface</i>	Routable Interface

Command Mode

- /exec/configure/router-ospf

mpls traffic-eng router-id

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

Syntax Description

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

[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

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_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

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 <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 multitolopoly for IPV6
transition	(Optional) Configure multitolopoly 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	Of 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

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-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-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-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>

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

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