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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 |

Command Mode

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

mac-address

mac-address { <mac_address_val> | ipv6-extract } | no mac-address [<mac_address_val> | ipv6-extract]

Syntax Description

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

Command Mode

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

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 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 |
| ipv6-extract | Extract mac-address from the IPv6 address configured on the interface |

Command Mode

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

mac-list

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

Syntax Description

| | |
|-----------------|---|
| no | Negate a command or set its defaults |
| mac-list | Build a mac list |
| <i>name</i> | Name of prefix list |
| seq | (Optional) Sequence number of an entry |
| <i>seq</i> | (Optional) Sequence number |
| permit | Specify routes to forward |
| deny | Specify routes to reject |
| <i>mac-addr</i> | MAC address |
| <i>mac-mask</i> | (Optional) MAC Mask. Default Mask is ffff.ffff.ffff |

Command Mode

- /exec/configure

mac access-list

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

Syntax Description

| | |
|-------------------|---|
| no | (Optional) Negate a command or set its defaults |
| mac | MAC configuration commands |
| access-list | Configure access list |
| <i>name</i> | List name |
| client | (Optional) set client type |
| <i>clienttype</i> | (Optional) CLI/ONEP |
| <i>clientID</i> | (Optional) client appID |

Command Mode

- /exec/configure

mac address

[no] mac address { <macaddr> }

Syntax Description

| | |
|----------------|---|
| 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 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

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

```
{ { [ 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

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 <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

```
[no] match { { access-group name <acl-name> } | [ not ] { dscp { <dscp-list> | <dscp-enum> } + } | { qos-group <qos-group-list> } }
```

Syntax Description

| | |
|-----------------------|---|
| <i>dscp-list</i> | <dscp-enum> |
| no | (Optional) Negate a command or set its defaults |
| match | Classification criteria |
| not | (Optional) Negate this match result |
| access-group | Access group |
| name | Named Access List |
| <i>acl-name</i> | Access List name |
| dscp | DSCP in IP(v4) and IPv6 packets |
| <i>dscp-enum</i> | |
| qos-group | Qos-group |
| <i>qos-group-list</i> | List of qos-group values |

Command Mode

- /exec/configure/class-map

match

```
[no] match { [ not ] { { cos <cos-list> } | { precedence { <precedence-list> | <prec-enum> } + } | { discard-class
<discard-class-list> } | { class-map <cmap-name> } | { protocol <protocol-enum> } | { packet length <len-list>
} | { ip rtp <port-list> } | { mpls experimental topmost <exp-list> } } }
```

Syntax Description

| | |
|---------------------------|---|
| <i>cos-list</i> | <precedence-list> |
| no | (Optional) Negate a command or set its defaults |
| match | Classification criteria |
| not | (Optional) Negate this match result |
| cos | IEEE 802.1Q class of service |
| 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 |
| class-map | Class map |
| <i>cmap-name</i> | Match class-map name |
| protocol | Protocol |
| <i>protocol-enum</i> | |
| packet | Packet |
| length | Length of IP datagram |
| <i>len-list</i> | list of IP packet length |
| ip | IP |
| rtp | Real Time Protocol |
| <i>port-list</i> | UDP port list that are using RTP |
| mpls | Match on MPLS label |
| experimental | Match on MPLS Experimental label |
| topmost | Match on topmost MPLS label |
| <i>exp-list</i> | List of MPLS exp values |

Command Mode

- /exec/configure/class-map

match access-group name

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

Syntax Description

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

Command Mode

- /exec/configure/cmap

match as-number

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

Syntax Description

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

Command Mode

- /exec/configure/route-map

match as-number as-path-list

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

Syntax Description

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

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> | |
| <i>aspl-name</i> | |
| <i>aspl-name</i> | |

Command Mode

- /exec/configure/route-map

match class-map

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

Syntax Description

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

| | |
|-----------------|---|
| 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/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 | 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 exception

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

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 |
| nat-flow | ipv4 software nat flow packets |

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 <name> +

Syntax Description

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

Command Mode

- /exec/configure/route-map

match ip

[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 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 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> | |
| <i>ipv4-pfl-name</i> | |
| <i>ipv4-pfl-name</i> | |

Command Mode

- /exec/configure/route-map

match ip multicast

```
{ 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> | |
| <i>ipv4-pfl-name</i> | |
| <i>ipv4-pfl-name</i> | |

Command Mode

- /exec/configure/route-map

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> | |
| <i>ipv4-pfl-name</i> | |
| <i>ipv4-pfl-name</i> | |

Command Mode

- /exec/configure/route-map

match ipv4

[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 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 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> | |
| <i>ipv6-pfl-name</i> | |
| <i>ipv6-pfl-name</i> | |

Command Mode

- /exec/configure/route-map

match ipv6 multicast

```
{ 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> | |
| <i>ipv6-pfl-name</i> | |
| <i>ipv6-pfl-name</i> | |

Command Mode

- /exec/configure/route-map

match ipv6 route-source prefix-list

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

Syntax Description

| | |
|----------------------|---|
| 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> | |
| <i>ipv6-pfl-name</i> | |
| <i>ipv6-pfl-name</i> | |

Command Mode

- /exec/configure/route-map

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 protocol

```
[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 protocol

[no] match protocol { fcoe | iscsi | tcp }

Syntax Description

| | |
|----------|---|
| no | (Optional) Negate a command or set its defaults |
| match | Classification criteria |
| protocol | Protocol |
| fcoe | FCoE |
| iscsi | ISCSI |
| tcp | TCP |

Command Mode

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

match 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-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 qos-group2 (queuing)

[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> | List of qos-group values |

Command Mode

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

match qos-group2 (uf)

[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> | Qos-group value |

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 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

[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-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-metric router-lsa

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

Syntax Description

| | |
|--------------------------|---|
| no | (Optional) Negate a command or set its defaults |
| max-metric | Maximize the cost metric |
| 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>tag</i> | (Optional) Tag 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 <tag> ] ] [ inter-area-prefix-lsa [ <max-metric-sumlsa> ] ]
```

Syntax Description

| | |
|--------------------------|---|
| no | (Optional) Negate a command or set its defaults |
| max-metric | Maximize the cost metric |
| 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>tag</i> | (Optional) Tag 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 | (Optional) VMware configuration |
| 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 | (Optional) VMware configuration |
| max-ports | Max ports on which this profile can be inherited |

Command Mode

- /exec/configure/port-profile

maxas-limit

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

Syntax Description

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

Command Mode

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

maximum-paths

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

Syntax Description

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

Command Mode

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

maximum-paths (router-ospf3-af-ipv6)

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 (router-bgp-af)

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

maximum-paths (router-igrp-af-common)

{ { 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-igrp/router-igrp-vrf-common /exec/configure/router-igrp/router-igrp-af-common

maximum-paths (vrf)

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 /exec/configure/router-ospf/vrf

maximum-paths (router-isis-af-ipv6)

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

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

maximum-peers

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

Syntax Description

| | |
|---------------|---|
| no | Negate a command or set its defaults |
| maximum-peers | Maximum number of peers for this prefix |
| <i>limit</i> | Max. peers limit |

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor-prefix

maximum-prefix

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

Syntax Description

| | |
|---------------------|--|
| 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

maximum-prefix (router-eigrp)

```
{ { maximum-prefix <value> [ <threshold> ] [ warning-only ] [ restart <time1> ] [ restart-count <count> ] [
reset-time <time2> ] [ dampened ] } | { no maximum-prefix [ <value> [ <threshold> ] [ warning-only ] [ restart
<time1> ] [ restart-count <count> ] [ reset-time <time2> ] [ dampened ] ] } }
```

Syntax Description

| | |
|------------------|---|
| no | Negate a command or set its defaults |
| maximum-prefix | Maximum number of IP prefixes acceptable in aggregate |
| <i>value</i> | Number of IP prefixes for maximum-prefix limit |
| <i>threshold</i> | (Optional) Threshold value (%) at which to generate a warning message |
| warning-only | (Optional) Only give warning message when limit is exceeded |
| restart | (Optional) Duration for which a prefix source is ignored |
| <i>time1</i> | (Optional) Restart interval in minutes |
| restart-count | (Optional) Number of times sessions are auto-restarted |
| <i>count</i> | (Optional) Number of times |
| reset-time | (Optional) Duration after which restart history is cleared |
| <i>time2</i> | (Optional) Reset time in minutes |
| dampened | (Optional) Exponentially increase restart time interval |

Command Mode

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

maximum-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-vpnv4
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-mdt
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv6
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-l2vpn-vpls
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-mvpn
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv6-mvpn
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-l2vpn-evpn

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

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

medium

{ medium { broadcast | p2p } | no medium { broadcast | p2p } }

Syntax Description

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

Command Mode

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

medium

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

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

member vni

[no] member vni <vni-range> mcast-group <maddr1> [<maddr2>]

Syntax Description

| | |
|------------------|---|
| no | (Optional) Negate a command or set its defaults |
| member | NVE VN-Segment Membership |
| vni | Virtual Network Identifier |
| <i>vni-range</i> | vni range, Example: 5000 or 5001-5008 |
| mcast-group | NVE Multicast Group |
| <i>maddr1</i> | Multicast IP Prefix |
| <i>maddr2</i> | (Optional) Multicast IP Prefix |

Command Mode

- /exec/configure/if-nve

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

[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

merge config

merge config <from-file> [show-only]

Syntax Description

| | |
|------------------|---|
| merge | merge |
| config | merge configuration (to running-config) |
| <i>from-file</i> | the file containing the destination configuration, a patch will be created and applied to the running-config's matching section (format according to 'show run section' command output) |
| show-only | (Optional) only show the patch, don't execute it |

Command Mode

- /exec

message-digest-key

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

Syntax Description

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

Command Mode

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

message-digest-key (router-ospf-slink)

```
{ { 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

metric-style

[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 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-policy

```
{ no mgmt-policy <policy-name> } | { mgmt-policy <policy-name> { permit | deny } [ [ ip { <ip-addr> [ <ip-mask> ] } ] | [ ip6 <ipv6-prefix> ] ] [ protocol { tcp | udp | icmp } ] [ src-port <srcport> [ <srcport-end> ] ] [ dest-port <dstport> [ <dstport-end> ] ] }
```

Syntax Description

| | |
|--------------------|---------------------------------------|
| no | Negate a command or set its defaults |
| mgmt-policy | PM Management Policy |
| <i>policy-name</i> | Name of the policy |
| permit | Permit access |
| deny | Deny access |
| ip | (Optional) IPV4 address |
| <i>ip-addr</i> | (Optional) IPV4 source address/subnet |
| <i>ip-mask</i> | (Optional) IPV4 mask |
| ip6 | (Optional) IPV6 Address |
| protocol | (Optional) Protocol |
| tcp | (Optional) TCP protocol |
| udp | (Optional) UDP protocol |
| icmp | (Optional) ICMP protocol |
| src-port | (Optional) Source port |
| <i>srcport</i> | (Optional) Source port |
| <i>srcport-end</i> | (Optional) Source Port end |
| dest-port | (Optional) Destination port |
| <i>dstport</i> | (Optional) Destination port |
| <i>dstport-end</i> | (Optional) Destination Port end |

Command Mode

- /exec/configure

mkdir

mkdir <uri0>

Syntax Description

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

Command Mode

- /exec

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

[no] mode <numsample> every <period>

Syntax Description

| | |
|------------------|--|
| mode | Define the Sampler mode |
| <i>numsample</i> | Number of samples per sampling - 64 max |
| every | Time-based sampling |
| <i>period</i> | Sampling Time Period in milliseconds - 64000 max |

Command Mode

- /exec/configure/nfm-sampler

mode

[no] mode <numsample> out-of <samples> | no mode

Syntax Description

| | |
|------------------|---|
| mode | Define the Sampler mode |
| <i>numsample</i> | Number of samples per sampling - 63 max |
| out-of | M out of N packets |
| <i>samples</i> | Number of packets in each sampling - 8191 max |

Command Mode

- /exec/configure/nfm-sampler

mode openflow

[no] mode openflow

Syntax Description

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

Command Mode

- /exec/configure/if-port-channel /exec/configure/if-ethernet-all /exec/configure/if-ethernet
/exec/configure/if-ethernet-switch /exec/configure/if-eth-non-member

mode tap-aggregation

[no] mode tap-aggregation

Syntax Description

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

Command Mode

- /exec/configure/if-switching

monitor erspan granularity

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

Syntax Description

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

Command Mode

- /exec/configure

monitor erspan origin ip-address

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

Syntax Description

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

Command Mode

- /exec/configure

monitor erspan switch-id

[no] monitor erspan switch-id <switch_id>

Syntax Description

| | |
|------------------|---|
| no | (Optional) Negate a command or set its defaults |
| monitor | Configure Ethernet SPAN sessions |
| erspan | Configure Ethernet ERSPAN sessions |
| switch-id | Configure the erspan switch-id |
| <i>switch_id</i> | erspan-switch-id |

Command Mode

- /exec/configure

move

move <uri0> <uri1>

Syntax Description

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

Command Mode

- /exec

mping

mping [{ broadcast | lc module <i0> | sup module <i1> }]

Syntax Description

| | |
|-----------|-----------------------------|
| mping | run mping |
| broadcast | (Optional) mping broadcast |
| lc | (Optional) mping line-cards |
| module | (Optional) slot information |
| <i>i0</i> | (Optional) |
| sup | (Optional) mping supervisor |
| module | (Optional) slot information |
| <i>i1</i> | (Optional) |

Command Mode

- /exec

mpls traffic-eng tunnels

[no] mpls traffic-eng tunnels

Syntax Description

| | |
|-------------|---|
| no | (Optional) Negate a command or set its defaults |
| mpls | MPLS configuration commands |
| traffic-eng | Configure Traffic Engineering parameters |
| tunnels | enable MPLS Traffic Engineering tunnels |

Command Mode

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

mst

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

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

mtu

[no] mtu [<mtu-val>]

Syntax Description

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

Command Mode

- /exec/configure/if-any-tunnel

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_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

[no] mtu <value>

Syntax Description

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

Command Mode

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

mtu

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

multi-topology

[no] multi-topology [transition]

Syntax Description

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

Command Mode

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