



## M Commands

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# mac-address

**mac-address** *E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE*

**Description:** Add a custom MAC address to the bridgedomain

**Syntax:**

<i>E.E.E</i>	MAC address (Option 1)
<i>EE-EE-EE-EE-EE-EE</i>	MAC address (Option 2)
<i>EE:EE:EE:EE:EE:EE</i>	MAC address (Option 3)
<i>EEEE.EEEE.EEEE</i>	MAC address (Option 4)

**Command Mode:** interface : Configuration for interface bridge-domain

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# interface bridge-domain <WORD>
(config-tenant-interface)# mac-address
E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE
```

**mac-address** <WORD>

**Description:** Configure Anycast MAC Address for L4-L7 Graph Connector

**Syntax:**

<i>WORD</i>	Enter MAC address for anycast (Max Size None)
-------------	---

**Command Mode:** subnet-ip : Configure Subnet IP for a L4-l7 Graph Connector.

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# l4l7 graph <WORD> [contract <contract-option>]
(config-graph)# service <WORD> [device-cluster-tenant <WORD>] [device-cluster <WORD>] [mode
<Available Modes>] [svcredir <Service Redirection>] [service-type <Service Type>]
(config-service)# connector <WORD> [cluster-interface <WORD>]
(config-connector)# subnet-ip <WORD> [subnet-ctrl <ctrl>]
(config-subnet-ip)# mac-address <WORD>
```

**mac-address** *E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE*

**Description:** Manually set interface MAC address

**Syntax:**

<i>E.E.E</i>	MAC address (Option 1)
--------------	------------------------

<i>EE-EE-EE-EE-EE-EE</i>	MAC address (Option 2)
<i>EE:EE:EE:EE:EE:EE</i>	MAC address (Option 3)
<i>EEEE.EEEE.EEEE</i>	MAC address (Option 4)

**Command Mode:** interface vlan : Vlan interface

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# mac-address E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE
```

**mac-address E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE**

**Description:** Configure mac Address

**Syntax:**

<i>E.E.E</i>	MAC address (Option 1)
<i>EE-EE-EE-EE-EE-EE</i>	MAC address (Option 2)
<i>EE:EE:EE:EE:EE:EE</i>	MAC address (Option 3)
<i>EEEE.EEEE.EEEE</i>	MAC address (Option 4)

**Command Mode:** interface ethernet : Ethernet IEEE 802.3z

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface ethernet <ifRange>
(config-leaf-if)# mac-address E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE
```

**mac-address <WORD>**

**Description:** Virtual MAC address

**Syntax:**

<i>WORD</i>	MAC address(FORMAT:xxxx.xxxx.xxxx)
-------------	------------------------------------

**Command Mode:** hsrp group : Configure HSRP Group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface ethernet <ifRange>
(config-leaf-if)# hsrp group <NUMBER> [['ipv4', 'ipv6']]
(config-if-hsrp)# mac-address <WORD>
```

**mac-address** E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE

**Description:** Configure mac Address

**Syntax:**

<i>E.E.E</i>	MAC address (Option 1)
<i>EE-EE-EE-EE-EE-EE</i>	MAC address (Option 2)
<i>EE:EE:EE:EE:EE:EE</i>	MAC address (Option 3)
<i>EEEE.EEEE.EEEE</i>	MAC address (Option 4)

**Command Mode:** interface port-channel : Port Channel interface

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface port-channel <WORD> [fex <fex>]
(config-leaf-if)# mac-address E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE
```

**mac-address** <WORD>

**Description:** Virtual MAC address

**Syntax:**

<i>WORD</i>	MAC address(FORMAT:xxxx.xxxx.xxxx)
-------------	------------------------------------

**Command Mode:** hsrp group : Configure HSRP Group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface port-channel <WORD> [fex <fex>]
(config-leaf-if)# hsrp group <NUMBER> [['ipv4', 'ipv6']]
(config-if-hsrp)# mac-address <WORD>
```

**mac-address** E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE

**Description:** Manually set interface MAC address

**Syntax:**

<i>E.E.E</i>	MAC address (Option 1)
<i>EE-EE-EE-EE-EE-EE</i>	MAC address (Option 2)
<i>EE:EE:EE:EE:EE:EE</i>	MAC address (Option 3)
<i>EEEE.EEEE.EEEE</i>	MAC address (Option 4)

**Command Mode:** virtual-interface-profile : Configure virtual interface profile

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# virtual-interface-profile vlan <1-4094> tenant <WORD> vrf <WORD> [l3out
<l3out>]
(virtual-interface-profile)# mac-address
E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE
```

**mac-address** *E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE*

**Description:** Manually set interface MAC address

**Syntax:**

<i>E.E.E</i>	MAC address (Option 1)
<i>EE-EE-EE-EE-EE-EE</i>	MAC address (Option 2)
<i>EE:EE:EE:EE:EE:EE</i>	MAC address (Option 3)
<i>EEEE.EEEE.EEEE</i>	MAC address (Option 4)

**Command Mode:** interface vlan : Vlan interface

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# mac-address E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE
```

**mac-address** *E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE*

**Description:** Configure mac Address

**Syntax:**

<i>E.E.E</i>	MAC address (Option 1)
<i>EE-EE-EE-EE-EE-EE</i>	MAC address (Option 2)
<i>EE:EE:EE:EE:EE:EE</i>	MAC address (Option 3)
<i>EEEE.EEEE.EEEE</i>	MAC address (Option 4)

**Command Mode:** interface ethernet : Ethernet IEEE 802.3z

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface ethernet <ifRange>
(config-leaf-if)# mac-address E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE
```

**mac-address <WORD>****Description:** Virtual MAC address**Syntax:**

<i>WORD</i>	MAC address(FORMAT:xxxx.xxxx.xxxx)
-------------	------------------------------------

**Command Mode:** hsrp group : Configure HSRP Group**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface ethernet <ifRange>
(config-leaf-if)# hsrp group <NUMBER> [['ipv4', 'ipv6']]
(config-if-hsrp)# mac-address <WORD>
```

**mac-address E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE****Description:** Configure mac Address**Syntax:**

<i>E.E.E</i>	MAC address (Option 1)
<i>EE-EE-EE-EE-EE-EE</i>	MAC address (Option 2)
<i>EE:EE:EE:EE:EE:EE</i>	MAC address (Option 3)
<i>EEEE.EEEE.EEEE</i>	MAC address (Option 4)

**Command Mode:** interface port-channel : Port Channel interface**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface port-channel <WORD> [fex <fex>]
(config-leaf-if)# mac-address E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE
```

**mac-address <WORD>****Description:** Virtual MAC address**Syntax:**

<i>WORD</i>	MAC address(FORMAT:xxxx.xxxx.xxxx)
-------------	------------------------------------

**Command Mode:** hsrp group : Configure HSRP Group**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface port-channel <WORD> [fex <fex>]
(config-leaf-if)# hsrp group <NUMBER> [['ipv4', 'ipv6']]
```



```
(config-if-hsrp)# mac-address <WORD>
```

**mac-address** *E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE*

**Description:** Manually set interface MAC address

**Syntax:**

<i>E.E.E</i>	MAC address (Option 1)
<i>EE-EE-EE-EE-EE-EE</i>	MAC address (Option 2)
<i>EE:EE:EE:EE:EE:EE</i>	MAC address (Option 3)
<i>EEEE.EEEE.EEEE</i>	MAC address (Option 4)

**Command Mode:** virtual-interface-profile : Configure virtual interface profile

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# virtual-interface-profile vlan <1-4094> tenant <WORD> vrf <WORD> [l3out
<l3out>]
(virtual-interface-profile)# mac-address
E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE
```

# mac-changes

## mac-changes accept

**Description:** Enable/disable MAC changes on trunk

**Syntax:**

accept	enable
--------	--------

**Command Mode:** trunk-portgroup : Configure a trunk port group in the VMWare domain

**Command Path:**

```
# configure [['terminal', 't']]
(config)# vmware-domain <WORD> [delimiter <WORD>] [access-mode <access-mode>]
[number-of-uplinks <number-of-uplinks>]
(config-vmware)# trunk-portgroup <>
(config-vmware-trunk)# mac-changes accept
```

# mac-learning

**mac-learning <arg>**

**Description:** enable/disable mac-learning on the qinq-tunnel

**Syntax:**

<i>arg</i>	
------------	--

**Command Mode:** dot1q-tunnel : Tunnel configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# dot1q-tunnel <WORD>
(config-tenant-tunnel)#mac-learning <>
```

# managed-config-check

## managed-config-check

**Description:** Enable managed address configuration check in router advertisement guard policy

**Command Mode:** router-advertisement-guard : Configuration for router advertisement guard policy

### Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# first-hop-security
(config-tenant-fhs)# security-policy <WORD>
(config-tenant-fhs-secpol)# router-advertisement-guard
(config-tenant-fhs-raguard)# managed-config-check
```

# managed-config-flag

## managed-config-flag

**Description:** Set managed address configuration flag in router advertisement guard policy

**Command Mode:** router-advertisement-guard : Configuration for router advertisement guard policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# first-hop-security
(config-tenant-fhs)# security-policy <WORD>
(config-tenant-fhs-secpol)# router-advertisement-guard
(config-tenant-fhs-raguard)# managed-config-flag
```

# managed-uplink-prof

**managed-uplink-prof** <externalId>

**Description:** Managed Uplink Profile

**Syntax:**

<i>externalId</i>	Managed Uplink Prof
-------------------	---------------------

**Command Mode:** integrations-mgr : Integrations Manager

**Command Path:**

```
# configure [['terminal', 't']]
(config)# integrations-group <WORD>
(config-integrations-group)# integrations-mgr <WORD> <type>
(config-integrations-mgr)# managed-uplink-prof <externalId>
```

# management-epg

**management-epg** <WORD>

**Description:** Set the TACACS+ accounting mgmt epg

**Syntax:**

WORD	MgmtEndpoint
------	--------------

**Command Mode:** remote-dest : TACACS Accounting remote destination's DNS name or its IP address

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tacacslog-group <WORD>
(config-tacacslog-group)# remote-dest <A.B.C.D|A:B::C:D|WORD> port <port>
(config-remote-dest)# management-epg <WORD>
```

# master

## master [stratum <NUMBER>]

**Description:** Master Mode for NTP Server

**Syntax:**

<1-14>	(Optional) Time in seconds. Number range from=1 to=14
--------	---

**Command Mode:** ntp : Configure the default ntp policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# pod <NUMBER>
(config-pod)# ntp
(config-ntp)# master [stratum <NUMBER>]
```

## master [stratum <NUMBER>]

**Description:** Master Mode for NTP Server

**Syntax:**

<1-14>	(Optional) Time in seconds. Number range from=1 to=14
--------	---

**Command Mode:** template ntp-fabric : Network Time Protocol (NTP)

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template ntp-fabric <WORD>
(config-template-ntp-fabric)# master [stratum <NUMBER>]
```



# match-precedence

**match-precedence** <integer-value>

**Description:** Configure User Precedence

**Syntax:**

<i>integer-value</i>	Configure User Precedence
----------------------	---------------------------

**Command Mode:** epg : AEPg configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# application <WORD>
(config-tenant-app)# epg <WORD> [type <WORD>]
(config-tenant-app-epg)# match-precedence <integer-value>
```

# match

## match <WORD>

**Description:** Set match protocol

### Syntax:

<i>WORD</i>	Policer Mode
-------------	--------------

**Command Mode:** policy-protocol : Create policy protocol

### Command Path:

```
# configure [['terminal', 't']]
(config)# policy-map type control-plane-if <WORD>
(config-pmap-copp-if)# policy-protocol <WORD>
(config-pmap-copp-if)# match <WORD>
```

## match dscp|dot1p <WORD> <WORD> [set-class <WORD>] [set-dscp <WORD>] [set-cos <WORD>]

**Description:** Add a rule to match DSCP or DOT1P, queue the traffic and optionally mutate it

### Syntax:

dscp	Match entry for DSCP
dot1p	Match entry for DOT1P
<i>WORD</i>	From of DSCP or DOT1P range
<i>WORD</i>	To of DSCP or DOT1P range
<i>WORD</i>	(Optional) Set the QOS class for the traffic
<i>WORD</i>	(Optional) DSCP rewrite
<i>WORD</i>	(Optional) Dot1P rewrite

**Command Mode:** policy-map type qos : QOS policy type

### Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# policy-map type qos <WORD>
(config-tenant-pmap-qos)# match dscp|dot1p <WORD> <WORD> [set-class <WORD>] [set-dscp <WORD>]
[set-cos <WORD>]
```

## match <arg>

**Description:** Configure match

### Syntax:

<i>arg</i>	
------------	--

**Command Mode:** flow record : Configure Netflow Record

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# flow record <WORD>
(config-tn-flow-record)# match <>
```

**match <arg>**

**Description:** Configure match

**Syntax:**

<i>arg</i>	
------------	--

**Command Mode:** flow record : Configure Netflow Record

**Command Path:**

```
# configure [['terminal', 't']]
(config)# flow record <WORD>
(config-flow-record)# match <>
```

# match arp

## match arp

**Description:** Match the ARP traffic

**Command Mode:** access-list : Create access-list

### Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# access-list <WORD>
(config-tenant-acl)# match arp
```

# match bridge-domain

**match bridge-domain <arg> [tenant <tenant>]**

**Description:** Match subnets of a bridge-domain

**Syntax:**

<i>arg</i>	
<i>tenant</i>	(Optional) Tenant name

**Command Mode:** route-map : Create route-map or enter route-map command mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# vrf context tenant <WORD> vrf <WORD> [l3out <l3out>]
(config-leaf-vrf)# route-map <WORD>
(config-leaf-vrf-route-map)# match bridge-domain <> [tenant <tenant>]
```

**match bridge-domain <arg> [tenant <tenant>]**

**Description:** Match subnets of a bridge-domain

**Syntax:**

<i>arg</i>	
<i>tenant</i>	(Optional) Tenant name

**Command Mode:** route-map : Create route-map or enter route-map command mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# vrf context tenant <WORD> vrf <WORD> [l3out <l3out>]
(config-leaf-vrf)# route-map <WORD>
(config-leaf-vrf-route-map)# match bridge-domain <> [tenant <tenant>]
```

# match dscp

**match dscp <0-64>**

**Description:** Match DSCP traffic

**Syntax:**

<0-64>	DSCP Value
--------	------------

**Command Mode:** access-list : Create access-list

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# access-list <WORD>
(config-tenant-acl)# match dscp <0-64>
```

# match icmp

## match icmp

**Description:** Match the ICMP traffic

**Command Mode:** access-list : Create access-list

### Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# access-list <WORD>
(config-tenant-acl)# match icmp
```

# match ip

## match ip

**Description:** Match the IP traffic

**Command Mode:** access-list : Create access-list

### Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# access-list <WORD>
(config-tenant-acl)# match ip
```

## match ip <A.B.C.D/LEN> [shared]

**Description:** Add a subnet that identify hosts being part of the epg

### Syntax:

<i>A.B.C.D/LEN</i>	IP prefix and network mask length
shared	(Optional) Add the shared scope to the existing scope for the subnet

**Command Mode:** external-l3 epg : External L3 EPG configuration mode

### Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# external-l3 epg <WORD> [oob-mgmt] [l3out <l3out>]
(config-tenant-l3ext-epg)# match ip <A.B.C.D/LEN> [shared]
```



# match ip multicast group

**match ip multicast group <A.B.C.D/LEN>**

**Description:** Multicast Group prefix

**Syntax:**

<i>A.B.C.D/LEN</i>	IPv4 group prefix and network mask length
--------------------	---

**Command Mode:** route-map : Configure route-map

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# route-map <WORD> deny|permit <Sequence to insert to/delete from existing
route-map entry>
(config-tenant-rtmap)# match ip multicast group <A.B.C.D/LEN>
```

# match ip multicast group rp

**match ip multicast group** <A.B.C.D/LEN> rp <A.B.C.D/LEN>

**Description:** Rendezvous point prefix

**Syntax:**

<i>A.B.C.D/LEN</i>	IPv4 group prefix and network mask length
<i>A.B.C.D/LEN</i>	IPv4 Rendezvous point prefix and network mask length

**Command Mode:** route-map : Configure route-map

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# route-map <WORD> deny|permit <Sequence to insert to/delete from existing
route-map entry>
(config-tenant-rtmap)# match ip multicast group <A.B.C.D/LEN> rp <A.B.C.D/LEN>
```

# match ip multicast group rp source

**match ip multicast group <A.B.C.D/LEN> rp <A.B.C.D/LEN> source <A.B.C.D/LEN>**

**Description:** source prefix

**Syntax:**

<i>A.B.C.D/LEN</i>	IPv4 group prefix and network mask length
<i>A.B.C.D/LEN</i>	IPv4 Rendezvous point prefix and network mask length
<i>A.B.C.D/LEN</i>	IPv4 source prefix and network mask length

**Command Mode:** route-map : Configure route-map

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# route-map <WORD> deny|permit <Sequence to insert to/delete from existing
route-map entry>
(config-tenant-rtmap)# match ip multicast group <A.B.C.D/LEN> rp <A.B.C.D/LEN> source
<A.B.C.D/LEN>
```

# match ip multicast group source

**match ip multicast group** <A.B.C.D/LEN> **source** <A.B.C.D/LEN>

**Description:** source prefix

**Syntax:**

<i>A.B.C.D/LEN</i>	IPv4 group prefix and network mask length
<i>A.B.C.D/LEN</i>	IPv4 source prefix and network mask length

**Command Mode:** route-map : Configure route-map

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# route-map <WORD> deny|permit <Sequence to insert to/delete from existing
route-map entry>
(config-tenant-rtmap)# match ip multicast group <A.B.C.D/LEN> source <A.B.C.D/LEN>
```

# match ip multicast group source rp

**match ip multicast group <A.B.C.D/LEN> source <A.B.C.D/LEN> rp <A.B.C.D/LEN>**

**Description:** Rendezvous point prefix

**Syntax:**

<i>A.B.C.D/LEN</i>	IPv4 group prefix and network mask length
<i>A.B.C.D/LEN</i>	IPv4 source prefix and network mask length
<i>A.B.C.D/LEN</i>	IPv4 Rendezvous point prefix and network mask length

**Command Mode:** route-map : Configure route-map

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# route-map <WORD> deny|permit <Sequence to insert to/delete from existing
route-map entry>
(config-tenant-rtmap)# match ip multicast group <A.B.C.D/LEN> source <A.B.C.D/LEN> rp
<A.B.C.D/LEN>
```

# match ip multicast rp

**match ip multicast rp** <A.B.C.D/LEN>

**Description:** Rendezvous point prefix

**Syntax:**

<i>A.B.C.D/LEN</i>	IPv4 Rendezvous point prefix and network mask length
--------------------	--

**Command Mode:** route-map : Configure route-map

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# route-map <WORD> deny|permit <Sequence to insert to/delete from existing
route-map entry>
(config-tenant-rtmap)# match ip multicast rp <A.B.C.D/LEN>
```

# match ip multicast rp group

**match ip multicast rp <A.B.C.D/LEN> group <A.B.C.D/LEN>**

**Description:** Multicast Group prefix

**Syntax:**

<i>A.B.C.D/LEN</i>	IPv4 Rendezvous point prefix and network mask length
<i>A.B.C.D/LEN</i>	IPv4 group prefix and network mask length

**Command Mode:** route-map : Configure route-map

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# route-map <WORD> deny|permit <Sequence to insert to/delete from existing
route-map entry>
(config-tenant-rtmap)# match ip multicast rp <A.B.C.D/LEN> group <A.B.C.D/LEN>
```

# match ip multicast rp group source

**match ip multicast rp** <A.B.C.D/LEN> group <A.B.C.D/LEN> source <A.B.C.D/LEN>

**Description:** source prefix

**Syntax:**

<i>A.B.C.D/LEN</i>	IPv4 Rendezvous point prefix and network mask length
<i>A.B.C.D/LEN</i>	IPv4 group prefix and network mask length
<i>A.B.C.D/LEN</i>	IPv4 source prefix and network mask length

**Command Mode:** route-map : Configure route-map

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# route-map <WORD> deny|permit <Sequence to insert to/delete from existing
route-map entry>
(config-tenant-rtmap)# match ip multicast rp <A.B.C.D/LEN> group <A.B.C.D/LEN> source
<A.B.C.D/LEN>
```



# match ip multicast rp source

**match ip multicast rp** <A.B.C.D/LEN> source <A.B.C.D/LEN>

**Description:** Multicast Group prefix

**Syntax:**

<i>A.B.C.D/LEN</i>	IPv4 Rendezvous point prefix and network mask length
<i>A.B.C.D/LEN</i>	IPv4 source prefix and network mask length

**Command Mode:** route-map : Configure route-map

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# route-map <WORD> deny|permit <Sequence to insert to/delete from existing
route-map entry>
(config-tenant-rtmap)# match ip multicast rp <A.B.C.D/LEN> source <A.B.C.D/LEN>
```

# match ip multicast rp source group

**match ip multicast rp** <A.B.C.D/LEN> **source** <A.B.C.D/LEN> **group** <A.B.C.D/LEN>

**Description:** Multicast Group prefix

**Syntax:**

<i>A.B.C.D/LEN</i>	IPv4 Rendezvous point prefix and network mask length
<i>A.B.C.D/LEN</i>	IPv4 source prefix and network mask length
<i>A.B.C.D/LEN</i>	IPv4 group prefix and network mask length

**Command Mode:** route-map : Configure route-map

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# route-map <WORD> deny|permit <Sequence to insert to/delete from existing
route-map entry>
(config-tenant-rtmap)# match ip multicast rp <A.B.C.D/LEN> source <A.B.C.D/LEN> group
<A.B.C.D/LEN>
```

# match ip multicast source

**match ip multicast source** <A.B.C.D/LEN>

**Description:** Multicast Group prefix

**Syntax:**

<i>A.B.C.D/LEN</i>	IPv4 source prefix and network mask length
--------------------	--

**Command Mode:** route-map : Configure route-map

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# route-map <WORD> deny|permit <Sequence to insert to/delete from existing
route-map entry>
(config-tenant-rtmap)# match ip multicast source <A.B.C.D/LEN>
```

# match ip multicast source group

**match ip multicast source** <A.B.C.D/LEN> **group** <A.B.C.D/LEN>

**Description:** Multicast Group prefix

**Syntax:**

<i>A.B.C.D/LEN</i>	IPv4 source prefix and network mask length
<i>A.B.C.D/LEN</i>	IPv4 group prefix and network mask length

**Command Mode:** route-map : Configure route-map

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# route-map <WORD> deny|permit <Sequence to insert to/delete from existing
route-map entry>
(config-tenant-rtmap)# match ip multicast source <A.B.C.D/LEN> group <A.B.C.D/LEN>
```

# match ip multicast source group rp

**match ip multicast source** <A.B.C.D/LEN> **group** <A.B.C.D/LEN> **rp** <A.B.C.D/LEN>

**Description:** Rendezvous point prefix

**Syntax:**

<i>A.B.C.D/LEN</i>	IPv4 source prefix and network mask length
<i>A.B.C.D/LEN</i>	IPv4 group prefix and network mask length
<i>A.B.C.D/LEN</i>	IPv4 Rendezvous point prefix and network mask length

**Command Mode:** route-map : Configure route-map

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# route-map <WORD> deny|permit <Sequence to insert to/delete from existing
route-map entry>
(config-tenant-rtmap)# match ip multicast source <A.B.C.D/LEN> group <A.B.C.D/LEN> rp
<A.B.C.D/LEN>
```

# match ip multicast source rp

**match ip multicast source** <A.B.C.D/LEN> rp <A.B.C.D/LEN>

**Description:** Rendezvous point prefix

**Syntax:**

<i>A.B.C.D/LEN</i>	IPv4 source prefix and network mask length
<i>A.B.C.D/LEN</i>	IPv4 Rendezvous point prefix and network mask length

**Command Mode:** route-map : Configure route-map

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# route-map <WORD> deny|permit <Sequence to insert to/delete from existing
route-map entry>
(config-tenant-rtmap)# match ip multicast source <A.B.C.D/LEN> rp <A.B.C.D/LEN>
```

# match ip multicast source rp group

**match ip multicast source <A.B.C.D/LEN> rp <A.B.C.D/LEN> group <A.B.C.D/LEN>**

**Description:** Multicast Group prefix

**Syntax:**

<i>A.B.C.D/LEN</i>	IPv4 source prefix and network mask length
<i>A.B.C.D/LEN</i>	IPv4 Rendezvous point prefix and network mask length
<i>A.B.C.D/LEN</i>	IPv4 group prefix and network mask length

**Command Mode:** route-map : Configure route-map

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# route-map <WORD> deny|permit <Sequence to insert to/delete from existing
route-map entry>
(config-tenant-rtmap)# match ip multicast source <A.B.C.D/LEN> rp <A.B.C.D/LEN> group
<A.B.C.D/LEN>
```

# match ipv6

**match ipv6 X:X:X::X/<0-128>**

**Description:** Add a subnet that identify hosts being part of the epg

**Syntax:**

<code>X:X:X::X/&lt;0-128&gt;</code>	IPv6 prefix and network mask length
-------------------------------------	-------------------------------------

**Command Mode:** external-l3 epg : External L3 EPG configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# external-l3 epg <WORD> [oob-mgmt] [l3out <l3out>]
(config-tenant-l3ext-epg)# match ipv6 X:X:X::X/<0-128>
```



# match ipv6 multicast group

**match ipv6 multicast group** <A:B::C:D/LEN>

**Description:** Multicast Group prefix

**Syntax:**

<i>A:B::C:D/LEN</i>	IPv6 group prefix and network mask length
---------------------	---

**Command Mode:** route-map : Configure route-map

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# route-map <WORD> deny|permit <Sequence to insert to/delete from existing
route-map entry>
(config-tenant-rtmap)# match ipv6 multicast group <A:B::C:D/LEN>
```

# match ipv6 multicast group rp

**match ipv6 multicast group** <A:B::C:D/LEN> rp <A:B::C:D/LEN>

**Description:** Rendezvous point prefix

**Syntax:**

<i>A:B::C:D/LEN</i>	IPv6 group prefix and network mask length
<i>A:B::C:D/LEN</i>	IPv6 Rendezvous point prefix and network mask length

**Command Mode:** route-map : Configure route-map

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# route-map <WORD> deny|permit <Sequence to insert to/delete from existing
route-map entry>
(config-tenant-rtmap)# match ipv6 multicast group <A:B::C:D/LEN> rp <A:B::C:D/LEN>
```

# match ipv6 multicast group rp source

**match ipv6 multicast group** <A:B::C:D/LEN> **rp** <A:B::C:D/LEN> **source** <A:B::C:D/LEN>

**Description:** source prefix

**Syntax:**

<i>A:B::C:D/LEN</i>	IPv6 group prefix and network mask length
<i>A:B::C:D/LEN</i>	IPv6 Rendezvous point prefix and network mask length
<i>A:B::C:D/LEN</i>	IPv6 source prefix and network mask length

**Command Mode:** route-map : Configure route-map

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# route-map <WORD> deny|permit <Sequence to insert to/delete from existing
route-map entry>
(config-tenant-rtmap)# match ipv6 multicast group <A:B::C:D/LEN> rp <A:B::C:D/LEN> source
<A:B::C:D/LEN>
```

# match ipv6 multicast group source

**match ipv6 multicast group** <A:B::C:D/LEN> **source** <A:B::C:D/LEN>

**Description:** source prefix

**Syntax:**

<i>A:B::C:D/LEN</i>	IPv6 group prefix and network mask length
<i>A:B::C:D/LEN</i>	IPv6 source prefix and network mask length

**Command Mode:** route-map : Configure route-map

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# route-map <WORD> deny|permit <Sequence to insert to/delete from existing
route-map entry>
(config-tenant-rtmap)# match ipv6 multicast group <A:B::C:D/LEN> source <A:B::C:D/LEN>
```

## match ipv6 multicast group source rp

**match ipv6 multicast group** <A:B::C:D/LEN> **source** <A:B::C:D/LEN> **rp** <A:B::C:D/LEN>

**Description:** Rendezvous point prefix

**Syntax:**

<i>A:B::C:D/LEN</i>	IPv6 group prefix and network mask length
<i>A:B::C:D/LEN</i>	IPv6 source prefix and network mask length
<i>A:B::C:D/LEN</i>	IPv6 Rendezvous point prefix and network mask length

**Command Mode:** route-map : Configure route-map

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# route-map <WORD> deny|permit <Sequence to insert to/delete from existing
route-map entry>
(config-tenant-rtmap)# match ipv6 multicast group <A:B::C:D/LEN> source <A:B::C:D/LEN> rp
<A:B::C:D/LEN>
```

# match ipv6 multicast rp

**match ipv6 multicast rp** <A:B::C:D/LEN>

**Description:** Rendezvous point prefix

**Syntax:**

<i>A:B::C:D/LEN</i>	IPv6 Rendezvous point prefix and network mask length
---------------------	--

**Command Mode:** route-map : Configure route-map

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# route-map <WORD> deny|permit <Sequence to insert to/delete from existing
route-map entry>
(config-tenant-rtmap)# match ipv6 multicast rp <A:B::C:D/LEN>
```

# match ipv6 multicast rp group

**match ipv6 multicast rp** <A:B::C:D/LEN> **group** <A:B::C:D/LEN>

**Description:** Multicast Group prefix

**Syntax:**

<i>A:B::C:D/LEN</i>	IPv6 Rendezvous point prefix and network mask length
<i>A:B::C:D/LEN</i>	IPv6 group prefix and network mask length

**Command Mode:** route-map : Configure route-map

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# route-map <WORD> deny|permit <Sequence to insert to/delete from existing
route-map entry>
(config-tenant-rtmap)# match ipv6 multicast rp <A:B::C:D/LEN> group <A:B::C:D/LEN>
```

# match ipv6 multicast rp group source

**match ipv6 multicast rp** <A:B::C:D/LEN> **group** <A:B::C:D/LEN> **source** <A:B::C:D/LEN>

**Description:** source prefix

**Syntax:**

<i>A:B::C:D/LEN</i>	IPv6 Rendezvous point prefix and network mask length
<i>A:B::C:D/LEN</i>	IPv6 group prefix and network mask length
<i>A:B::C:D/LEN</i>	IPv6 source prefix and network mask length

**Command Mode:** route-map : Configure route-map

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# route-map <WORD> deny|permit <Sequence to insert to/delete from existing
route-map entry>
(config-tenant-rtmap)# match ipv6 multicast rp <A:B::C:D/LEN> group <A:B::C:D/LEN> source
<A:B::C:D/LEN>
```



# match ipv6 multicast rp source

**match ipv6 multicast rp** <A:B::C:D/LEN> **source** <A:B::C:D/LEN>

**Description:** Multicast Group prefix

**Syntax:**

<i>A:B::C:D/LEN</i>	IPv6 Rendezvous point prefix and network mask length
<i>A:B::C:D/LEN</i>	IPv6 source prefix and network mask length

**Command Mode:** route-map : Configure route-map

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# route-map <WORD> deny|permit <Sequence to insert to/delete from existing
route-map entry>
(config-tenant-rtmap)# match ipv6 multicast rp <A:B::C:D/LEN> source <A:B::C:D/LEN>
```

# match ipv6 multicast rp source group

**match ipv6 multicast rp** <A:B::C:D/LEN> source <A:B::C:D/LEN> group <A:B::C:D/LEN>

**Description:** Multicast Group prefix

**Syntax:**

<i>A:B::C:D/LEN</i>	IPv6 Rendezvous point prefix and network mask length
<i>A:B::C:D/LEN</i>	IPv6 source prefix and network mask length
<i>A:B::C:D/LEN</i>	IPv6 group prefix and network mask length

**Command Mode:** route-map : Configure route-map

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# route-map <WORD> deny|permit <Sequence to insert to/delete from existing
route-map entry>
(config-tenant-rtmap)# match ipv6 multicast rp <A:B::C:D/LEN> source <A:B::C:D/LEN> group
<A:B::C:D/LEN>
```

# match ipv6 multicast source

**match ipv6 multicast source** <A:B::C:D/LEN>

**Description:** Multicast Group prefix

**Syntax:**

<i>A:B::C:D/LEN</i>	IPv6 source prefix and network mask length
---------------------	--

**Command Mode:** route-map : Configure route-map

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# route-map <WORD> deny|permit <Sequence to insert to/delete from existing
route-map entry>
(config-tenant-rtmap)# match ipv6 multicast source <A:B::C:D/LEN>
```

# match ipv6 multicast source group

**match ipv6 multicast source** <A:B::C:D/LEN> **group** <A:B::C:D/LEN>

**Description:** Multicast Group prefix

**Syntax:**

<i>A:B::C:D/LEN</i>	IPv6 source prefix and network mask length
<i>A:B::C:D/LEN</i>	IPv6 group prefix and network mask length

**Command Mode:** route-map : Configure route-map

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# route-map <WORD> deny|permit <Sequence to insert to/delete from existing
route-map entry>
(config-tenant-rtmap)# match ipv6 multicast source <A:B::C:D/LEN> group <A:B::C:D/LEN>
```

# match ipv6 multicast source group rp

**match ipv6 multicast source** <A:B::C:D/LEN> **group** <A:B::C:D/LEN> **rp** <A:B::C:D/LEN>

**Description:** Rendezvous point prefix

**Syntax:**

<i>A:B::C:D/LEN</i>	IPv6 source prefix and network mask length
<i>A:B::C:D/LEN</i>	IPv6 group prefix and network mask length
<i>A:B::C:D/LEN</i>	IPv6 Rendezvous point prefix and network mask length

**Command Mode:** route-map : Configure route-map

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# route-map <WORD> deny|permit <Sequence to insert to/delete from existing
route-map entry>
(config-tenant-rtmap)# match ipv6 multicast source <A:B::C:D/LEN> group <A:B::C:D/LEN> rp
<A:B::C:D/LEN>
```

# match ipv6 multicast source rp

**match ipv6 multicast source** <A:B::C:D/LEN> rp <A:B::C:D/LEN>

**Description:** Rendezvous point prefix

**Syntax:**

<i>A:B::C:D/LEN</i>	IPv6 source prefix and network mask length
<i>A:B::C:D/LEN</i>	IPv6 Rendezvous point prefix and network mask length

**Command Mode:** route-map : Configure route-map

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# route-map <WORD> deny|permit <Sequence to insert to/delete from existing
route-map entry>
(config-tenant-rtmap)# match ipv6 multicast source <A:B::C:D/LEN> rp <A:B::C:D/LEN>
```

# match ipv6 multicast source rp group

**match ipv6 multicast source** <A:B::C:D/LEN> rp <A:B::C:D/LEN> group <A:B::C:D/LEN>

**Description:** Multicast Group prefix

**Syntax:**

<i>A:B::C:D/LEN</i>	IPv6 source prefix and network mask length
<i>A:B::C:D/LEN</i>	IPv6 Rendezvous point prefix and network mask length
<i>A:B::C:D/LEN</i>	IPv6 group prefix and network mask length

**Command Mode:** route-map : Configure route-map

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# route-map <WORD> deny|permit <Sequence to insert to/delete from existing
route-map entry>
(config-tenant-rtmap)# match ipv6 multicast source <A:B::C:D/LEN> rp <A:B::C:D/LEN> group
<A:B::C:D/LEN>
```

# match prefix-list

**match prefix-list <WORD> [deny]**

**Description:** Match entries of a prefix-list

**Syntax:**

<i>WORD</i>	Name of prefix-list (Max Size 63)
deny	(Optional) Reject routes on match

**Command Mode:** route-map : Create route-map or enter route-map command mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# vrf context tenant <WORD> vrf <WORD> [l3out <l3out>]
(config-leaf-vrf)# route-map <WORD>
(config-leaf-vrf-route-map)# match prefix-list <WORD> [deny]
```

**match prefix-list <WORD> [deny]**

**Description:** Match entries of a prefix-list

**Syntax:**

<i>WORD</i>	Name of prefix-list (Max Size 63)
deny	(Optional) Reject routes on match

**Command Mode:** route-map : Create route-map or enter route-map command mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# vrf context tenant <WORD> vrf <WORD> [l3out <l3out>]
(config-leaf-vrf)# route-map <WORD>
(config-leaf-vrf-route-map)# match prefix-list <WORD> [deny]
```



# match raw

**match raw** <WORD> [tcpRules <tcpRules>] [arpOpc <arpOpc>] [applyToFrag <applyToFrag>] [dToPort <NUMBER>] [prot <NUMBER>] [icmpv4T <icmpv4T>] [stateful <stateful>] [icmpv6T <icmpv6T>] [sToPort <NUMBER>] [etherT <etherT>] [sFromPort <NUMBER>] [dFromPort <NUMBER>] [matchDscp <0-64>]

**Description:** Specify a raw vzEntry

## Syntax:

<i>WORD</i>	Entry Name (Max Size 64)
<i>tcpRules</i>	(Optional) TCP Flags as comma separated values like val1,val2,..valN
<i>arpOpc</i>	(Optional) ARP Opcodes
<i>applyToFrag</i>	(Optional) Apply to Fragment
<0-65535>	(Optional) L4 Destination Port. Number range from=0 to=65535
<0-255>	(Optional) IP Protocol. Number range from=0 to=255
<i>icmpv4T</i>	(Optional) ICMP Type
<i>stateful</i>	(Optional) Stateful flag
<i>icmpv6T</i>	(Optional) ICMPv6 Type
<0-65535>	(Optional) L4 Source Port. Number range from=0 to=65535
<i>etherT</i>	(Optional) Ethernet Type
<0-65535>	(Optional) L4 Source Port. Number range from=0 to=65535
<0-65535>	(Optional) L4 Destination Port. Number range from=0 to=65535
<0-64>	(Optional) DSCP Value

**Command Mode:** access-list : Create access-list

## Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# access-list <WORD>
(config-tenant-acl)# match raw <WORD> [tcpRules <tcpRules>] [arpOpc <arpOpc>] [applyToFrag
<applyToFrag>] [dToPort <NUMBER>] [prot <NUMBER>] [icmpv4T <icmpv4T>] [stateful <stateful>]
[icmpv6T <icmpv6T>] [sToPort <NUMBER>] [etherT <etherT>] [sFromPort <NUMBER>] [dFromPort
<NUMBER>] [matchDscp <0-64>]
```

# match route group

**match route group <arg> [order <order>] [deny]**

**Description:** Route group

**Syntax:**

<i>arg</i>	
<i>order</i>	(Optional) Relative order for the entry. Number range from=0 to=9
deny	(Optional) Reject routes on match

**Command Mode:** route-map : Create route-map or enter route-map command mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# vrf context tenant <WORD> vrf <WORD> [l3out <l3out>]
(config-leaf-vrf)# route-map <WORD>
(config-leaf-vrf-route-map)# match route group <> [order <order>] [deny]
```

**match route group <arg> [order <order>] [deny]**

**Description:** Route group

**Syntax:**

<i>arg</i>	
<i>order</i>	(Optional) Relative order for the entry. Number range from=0 to=9
deny	(Optional) Reject routes on match

**Command Mode:** route-map : Create route-map or enter route-map command mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# vrf context tenant <WORD> vrf <WORD> [l3out <l3out>]
(config-leaf-vrf)# route-map <WORD>
(config-leaf-vrf-route-map)# match route group <> [order <order>] [deny]
```

# match tcp

**match tcp [src <from>-[<to>] contained in <0-65535>] [dest <from>-[<to>] contained in <0-65535>]**

**Description:** Match TCP traffic

**Syntax:**

<i>&lt;from&gt;-[&lt;to&gt;] contained in &lt;0-65535&gt;</i>	(Optional) TCP Source port Range
<i>&lt;from&gt;-[&lt;to&gt;] contained in &lt;0-65535&gt;</i>	(Optional) TCP Destination port Range

**Command Mode:** access-list : Create access-list

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# access-list <WORD>
(config-tenant-acl)# match tcp [src <from>-[<to>] contained in <0-65535>] [dest <from>-[<to>]
contained in <0-65535>]
```

# match udp

**match udp [src <from>-[<to>] contained in <0-65535>] [dest <from>-[<to>] contained in <0-65535>]**

**Description:** Match UDP traffic

**Syntax:**

<i>&lt;from&gt;-[&lt;to&gt;] contained in &lt;0-65535&gt;</i>	(Optional) UDP Source port Range
<i>&lt;from&gt;-[&lt;to&gt;] contained in &lt;0-65535&gt;</i>	(Optional) UDP Destination port Range

**Command Mode:** access-list : Create access-list

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# access-list <WORD>
(config-tenant-acl)# match udp [src <from>-[<to>] contained in <0-65535>] [dest <from>-[<to>]
contained in <0-65535>]
```

# max-lsa

**max-lsa** <NUMBER> <NUMBER> reject|restart|log

**Description:** Feature to limit the number of non-self-originated LSAs

**Syntax:**

<1-4294967295>	Set maximum number of non self-generated LSAs. Number range from=1 to=4294967295
<1-100>	Threshold value (%) at which to generate a warning message. Number range from=1 to=100
reject	Reject LSAs beyond the limit
restart	Restart the neighbor
log	log a warning

**Command Mode:** template ospf vrf-policy : Configure Router OSPF Timer Policy Templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template ospf vrf-policy <WORD> tenant <WORD>
(config-vrf-policy)# max-lsa <NUMBER> <NUMBER> reject|restart|log
```

**max-lsa** <NUMBER> <NUMBER> reject|restart|log

**Description:** Feature to limit the number of non-self-originated LSAs

**Syntax:**

<1-4294967295>	Set maximum number of non self-generated LSAs. Number range from=1 to=4294967295
<1-100>	Threshold value (%) at which to generate a warning message. Number range from=1 to=100
reject	Reject LSAs beyond the limit
restart	Restart the neighbor
log	log a warning

**Command Mode:** template ospf vrf-policy : Configure Router OSPF Timer Policy Templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# template ospf vrf-policy <WORD> tenant <WORD>
```

```
(config-vrf-policy)# max-lsa <NUMBER> <NUMBER> reject|restart|log
```

# max-validity-period

**max-validity-period** <NUMBER>

**Description:** Set The maximum validity period for a webtoken

**Syntax:**

<4-24>	Set The maximum validity period for a webtoken. Number range from=4 to=24
--------	---

**Command Mode:** crypto webtoken : The cryptographic data used for generating and verifying web tokens.

**Command Path:**

```
# configure [['terminal', 't']]
(config)# crypto webtoken
(config-webtoken)# max-validity-period <NUMBER>
```

# max

**max** <4000-30000>

**Description:** Set max power wattage for interface

**Syntax:**

<4000-30000>	Max power consumption in milliwatts
--------------	-------------------------------------

**Command Mode:** switchport power-over-ethernet : Power Over Ethernet configuration

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template policy-group <WORD>
(config-pol-grp-if)# switchport power-over-ethernet <WORD>
(config-power-over-ethernet)# max <4000-30000>
```



# max concurrent

## max concurrent nodes <NUMBER>

**Description:** Set the window maximum concurrent node limit

**Syntax:**

nodes	Maximum number of tasks that can be processed concurrently.
<0-65535>	Enter maximum number of concurrent nodes. 0 for unlimited. Number range from=0 to=65535

**Command Mode:** absolute : Absolute window configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# scheduler fabric|controller schedule <WORD>
(config-scheduler)# absolute window <WORD>
(config-scheduler-absolute)# max concurrent nodes <NUMBER>
```

## max concurrent nodes <NUMBER>

**Description:** Set the window maximum concurrent node limit

**Syntax:**

nodes	Maximum number of tasks that can be processed concurrently.
<0-65535>	Enter maximum number of concurrent nodes. 0 for unlimited. Number range from=0 to=65535

**Command Mode:** recurring : Recurring window configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# scheduler fabric|controller schedule <WORD>
(config-scheduler)# recurring window <WORD>
(config-scheduler-recurring)# max concurrent nodes <NUMBER>
```

# max running

## max running time <TIME>

**Description:** Set the window maximum running time

### Syntax:

time	Maximum running time
<i>TIME</i>	Enter the maximum running time in dd:hh:mm:ss. 0 for unlimited

**Command Mode:** absolute : Absolute window configuration mode

### Command Path:

```
# configure [['terminal', 't']]
(config)# scheduler fabric|controller schedule <WORD>
(config-scheduler)# absolute window <WORD>
(config-scheduler-absolute)# max running time <TIME>
```

## max running time <TIME>

**Description:** Set the window maximum running time

### Syntax:

time	Maximum running time in milliseconds
<i>TIME</i>	Enter the maximum running time in dd:hh:mm:ss. 0 for unlimited

**Command Mode:** recurring : Recurring window configuration mode

### Command Path:

```
# configure [['terminal', 't']]
(config)# scheduler fabric|controller schedule <WORD>
(config-scheduler)# recurring window <WORD>
(config-scheduler-recurring)# max running time <TIME>
```

# maxas-limit

## maxas-limit <NUMBER>

**Description:** Configure BGP Maximum AS limit

**Syntax:**

<0-2000>	BGP Maximum AS limit. Number range from=0 to=2000
----------	---

**Command Mode:** template bgp timers : Configure Router BGP Timer Policy Templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template bgp timers <WORD> tenant <WORD>
(config-bgp-timers)# maxas-limit <NUMBER>
```

## maxas-limit <NUMBER>

**Description:** Configure BGP Maximum AS limit

**Syntax:**

<0-2000>	BGP Maximum AS limit. Number range from=0 to=2000
----------	---

**Command Mode:** template bgp timers : Configure Router BGP Timer Policy Templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# template bgp timers <WORD> tenant <WORD>
(config-bgp-timers)# maxas-limit <NUMBER>
```

# maximum-hop-limit

**maximum-hop-limit** <NUMBER>

**Description:** Config maximum hop limit in router advertisement guard policy

**Syntax:**

<hop-limit>	Specify hop limit. Number range from=1 to=255
-------------	---

**Command Mode:** router-advertisement-guard : Configuration for router advertisement guard policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# first-hop-security
(config-tenant-fhs)# security-policy <WORD>
(config-tenant-fhs-secpol)# router-advertisement-guard
(config-tenant-fhs-raguard)# maximum-hop-limit <NUMBER>
```

# maximum-paths

## maximum-paths <NUMBER>

**Description:** Set the maximum ECMP for the OSPF protocol

**Syntax:**

<1-64>	Maximum paths. Number range from=1 to=64
--------	--

**Command Mode:** template ospf vrf-policy : Configure Router OSPF Timer Policy Templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template ospf vrf-policy <WORD> tenant <WORD>
(config-vrf-policy)# maximum-paths <NUMBER>
```

## maximum-paths <arg> <arg>

**Description:** Configure multipath for BGP paths

**Syntax:**

<i>arg</i>	
<i>arg</i>	

**Command Mode:** template bgp address-family : Configure Router BGP Address Family Templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template bgp address-family <WORD> tenant <WORD>
(config-bgp-af)# maximum-paths <> <>
```

## maximum-paths <NUMBER>

**Description:** Set EIGRP Maximum Path Limit

**Syntax:**

<1-16>	Maximum Path Limit. Number range from=1 to=16
--------	---

**Command Mode:** template eigrp vrf-policy : Configure EIGRP VRF policy templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template eigrp vrf-policy <WORD> tenant <WORD>
```

```
(config-template-eigrp-vrf-pol)# maximum-paths <NUMBER>
```

### maximum-paths <NUMBER>

**Description:** Set EIGRP Maximum Path Limit

**Syntax:**

<1-16>	Maximum Path Limit. Number range from=1 to=16
--------	---

**Command Mode:** address-family : EIGRP Policy Address Family

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# router eigrp default
(config-eigrp)# vrf member tenant <WORD> vrf <WORD>
(config-eigrp-vrf)# address-family ipv4|ipv6 unicast
(config-address-family)# maximum-paths <NUMBER>
```

### maximum-paths <NUMBER>

**Description:** Set the maximum ECMP for the OSPF protocol

**Syntax:**

<1-64>	Maximum paths. Number range from=1 to=64
--------	--

**Command Mode:** template ospf vrf-policy : Configure Router OSPF Timer Policy Templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# template ospf vrf-policy <WORD> tenant <WORD>
(config-vrf-policy)# maximum-paths <NUMBER>
```

### maximum-paths <arg> <arg>

**Description:** Configure multipath for BGP paths

**Syntax:**

<i>arg</i>	
<i>arg</i>	

**Command Mode:** template bgp address-family : Configure Router BGP Address Family Templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# template bgp address-family <WORD> tenant <WORD>
```

```
(config-bgp-af)# maximum-paths <> <>
```

### maximum-paths <NUMBER>

**Description:** Set EIGRP Maximum Path Limit

**Syntax:**

<1-16>	Maximum Path Limit. Number range from=1 to=16
--------	---

**Command Mode:** template eigrp vrf-policy : Configure EIGRP VRF policy templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# template eigrp vrf-policy <WORD> tenant <WORD>
(config-template-eigrp-vrf-pol)# maximum-paths <NUMBER>
```

### maximum-paths <NUMBER>

**Description:** Set EIGRP Maximum Path Limit

**Syntax:**

<1-16>	Maximum Path Limit. Number range from=1 to=16
--------	---

**Command Mode:** address-family : EIGRP Policy Address Family

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# router eigrp default
(config-eigrp)# vrf member tenant <WORD> vrf <WORD>
(config-eigrp-vrf)# address-family ipv4|ipv6 unicast
(config-address-family)# maximum-paths <NUMBER>
```

# maximum-prefix

**maximum-prefix** <NUMBER> [action <action>] [threshold <NUMBER>] [restart-time <NUMBER>]

**Description:** Maximum number of prefixes from this neighbor

**Syntax:**

<1-300000>	Max. prefix limit. Number range from=1 to=300000
<action>	(Optional) Action to be performed when the maximum prefix limit is reached
<1-100>	(Optional) The threshold % of the maximum number of prefixes before a warning is issued. Number range from=1 to=100
<1-65535>	(Optional) The period of time in minutes before restarting the peer when the prefix limit is reached. Number range from=1 to=65535

**Command Mode:** address-family : Configure an address-family for peer

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# router bgp <fabric-ASN>
(config-leaf-bgp)# vrf member tenant <WORD> vrf <WORD>
(config-leaf-bgp-vrf)# neighbor A.B.C.D|A.B.C.D/LEN|A:B::C:D|A:B::C:D/LEN [evpn] [l3out
<WORD>]
(config-leaf-bgp-vrf-neighbor)# address-family ipv4|ipv6|l2vpn unicast|multicast|evpn
(config-leaf-bgp-vrf-neighbor-af)# maximum-prefix <NUMBER> [action <action>] [threshold
<NUMBER>] [restart-time <NUMBER>]
```

**maximum-prefix** <NUMBER> [action <action>] [threshold <NUMBER>] [restart-time <NUMBER>]

**Description:** Maximum number of prefixes from this neighbor

**Syntax:**

<1-300000>	Max. prefix limit. Number range from=1 to=300000
<action>	(Optional) Action to be performed when the maximum prefix limit is reached
<1-100>	(Optional) The threshold % of the maximum number of prefixes before a warning is issued. Number range from=1 to=100
<1-65535>	(Optional) The period of time in minutes before restarting the peer when the prefix limit is reached. Number range from=1 to=65535

**Command Mode:** address-family : Configure an address-family for peer

**Command Path:**



```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# router bgp <fabric-ASN>
(config-leaf-bgp)# vrf member tenant <WORD> vrf <WORD>
(config-leaf-bgp-vrf)# neighbor A.B.C.D|A.B.C.D/LEN|A:B::C:D|A:B::C:D/LEN [evpn] [l3out
<WORD>]
(config-leaf-bgp-vrf-neighbor)# address-family ipv4|ipv6|l2vpn unicast|multicast|evpn
(config-leaf-bgp-vrf-neighbor-af)# maximum-prefix <NUMBER> [action <action>] [threshold
<NUMBER>] [restart-time <NUMBER>]
```

# maximum-router-preference

## maximum-router-preference high|low|medium

**Description:** Config maximum router preference in router advertisement guard policy

**Syntax:**

high	Configure router preference as high
low	Configure router preference as low
medium	Configure router preference as medium

**Command Mode:** router-advertisement-guard : Configuration for router advertisement guard policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# first-hop-security
(config-tenant-fhs)# security-policy <WORD>
(config-tenant-fhs-secpol)# router-advertisement-guard
(config-tenant-fhs-raguard)# maximum-router-preference high|low|medium
```

# maxthreshold

**maxthreshold** <maxThresholdValue>

**Description:** Set maximum threshold for WRED

**Syntax:**

<i>maxThresholdValue</i>	Set maximum threshold for WRED. Number range from=0 to=100
--------------------------	--

**Command Mode:** algo : Configure the global QOS policies

**Command Path:**

```
# configure [['terminal', 't']]
(config)# qos parameters <WORD>
(config-qos)# algo wred|tail-drop
(config-qos-algo)# maxthreshold <maxThresholdValue>
```

# mcp

## mcp enable

**Description:** Configure MCP interface parameters

**Syntax:**

enable	Configure MCP parameters
--------	--------------------------

**Command Mode:** template policy-group : Configure Policy Group Parameters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template policy-group <WORD>
(config-pol-grp-if)# mcp enable
```

## mcp enable

**Description:** Configure MCP interface parameters

**Syntax:**

enable	Configure MCP parameters
--------	--------------------------

**Command Mode:** template port-channel : Configure Port-Channel Parameters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template port-channel <WORD>
(config-po-ch-if)# mcp enable
```

## mcp enable

**Description:** Configure MCP interface parameters

**Syntax:**

enable	Configure MCP parameters
--------	--------------------------

**Command Mode:** interface ethernet : Ethernet IEEE 802.3z

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface ethernet <ifRange>
(config-leaf-if)# mcp enable
```

**mcp enable****Description:** Configure MCP interface parameters**Syntax:**

enable	Configure MCP parameters
--------	--------------------------

**Command Mode:** interface port-channel : Port Channel interface**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface port-channel <WORD> [fex <fex>]
(config-leaf-if)# mcp enable
```

**mcp enable****Description:** Configure MCP interface parameters**Syntax:**

enable	Configure MCP parameters
--------	--------------------------

**Command Mode:** interface ethernet : Ethernet IEEE 802.3z**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface ethernet <ifRange>
(config-leaf-if)# mcp enable
```

**mcp enable****Description:** Configure MCP interface parameters**Syntax:**

enable	Configure MCP parameters
--------	--------------------------

**Command Mode:** interface port-channel : Port Channel interface**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface port-channel <WORD> [fex <fex>]
(config-leaf-if)# mcp enable
```

**mcp enable****Description:** Configure MCP interface parameters**Syntax:**

enable	Configure MCP parameters
--------	--------------------------

**Command Mode:** interface : Provide VPC Name

**Command Path:**

```
# configure [['terminal', 't']]
(config)# vpc context leaf <101-4000> <101-4000> [fex <fex>]
(config-vpc)# interface vpc <WORD> [fex <fex>]
(config-vpc-if)# mcp enable
```

# mcp action

## mcp action port-disable

**Description:** Configure MCP Loop Protection Action

**Syntax:**

port-disable	Disable the port when MCP detects loop
--------------	--

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# mcp action port-disable
```

# mcp control pdu-per-vlan

## mcp control pdu-per-vlan

**Description:** Configure MCP State Control To Pdu-per-vlan

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]  
(config)# mcp control pdu-per-vlan
```



# mcp description

**mcp description** <description>

**Description:** Update description for MCP policy

**Syntax:**

<description>	
---------------	--

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# mcp description <description>
```

# mcp enable

**mcp enable key <WORD>**

**Description:** Enable/Disable MCP Protocol

**Syntax:**

key	Configure MCP key
<i>WORD</i>	MCP key

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]  
(config)# mcp enable key <WORD>
```

# mcp factor

**mcp factor** <NUMBER>

**Description:** Configure MCP Loop Detection Factor

**Syntax:**

<1-255>	MCP Loop Detection Multiplication Factor. Number range from=1 to=255
---------	--

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# mcp factor <NUMBER>
```

# mcp init-delay

**mcp init-delay** <NUMBER>

**Description:** Configure MCP Loop Detection Init Delay Time

**Syntax:**

<0-1800>	MCP Loop Detection Init Delay Time. Number range from=0 to=1800
----------	---

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]  
(config)# mcp init-delay <NUMBER>
```

# mcp transmit-frequency

**mcp transmit-frequency** <NUMBER> <NUMBER>

**Description:** Configure MCP Advertisement Transmit Frequency

**Syntax:**

<0-300>	MCP Advertisement Tx Frequency. Number range from=0 to=300
<0-999>	MCP Advertisement Tx Frequency Milliseconds. Number range from=0 to=999

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# mcp transmit-frequency <NUMBER> <NUMBER>
```

# member

**member device <WORD> device-interface <WORD>**

**Description:** Configure Cluster Interface Member

**Syntax:**

device	Cluster Device
<i>WORD</i>	Cluster Device name (Max Size 64)
device-interface	Cluster Device Interface
<i>WORD</i>	Cluster Device Interface (Max Size 256)

**Command Mode:** cluster-interface : Configure L4-L7 Cluster Interface

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# 1417 cluster name <WORD> type <type> vlan-domain <domain-name>
[switching-mode <switching-mode>] [service <service>] [function <function>] [context
<context>] [trunking <enable|disable>] [vm-instantiation-policy <vm-instantiation-policy>]
(config-cluster)# cluster-interface <WORD> [vlan <NUMBER>]
(config-cluster-interface)# member device <WORD> device-interface <WORD>
```

# message-level

**message-level info|notice|emergency|alert|critical|error|debug|warning**

**Description:** Configure the urgency of the message

**Syntax:**

info	Info
notice	Notice
emergency	Emergency
alert	Alert
critical	Critical
error	Error
debug	Debug
warning	Warning

**Command Mode:** destination : Configure destination Parameters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# callhome common
(config-callhome)# destination-profile
(config-callhome-destnprof)# destination <WORD>
(config-callhome-destnprof-destn)# message-level
info|notice|emergency|alert|critical|error|debug|warning
```

**message-level info|notice|emergency|alert|critical|error|debug|warning**

**Description:** Configure the urgency of the message

**Syntax:**

info	Info
notice	Notice
emergency	Emergency
alert	Alert
critical	Critical
error	Error
debug	Debug

warning	Warning
---------	---------

**Command Mode:** destination : Configure destination Parameters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# smartcallhome common
(config-smartcallhome)# destination-profile
(config-callhome-destnprof)# destination <WORD>
(config-callhome-destnprof-destn)# message-level
info|notice|emergency|alert|critical|error|debug|warning
```



# message-size

**message-size <NUMBER>**

**Description:** Configure the size of the message

**Syntax:**

<i>&lt;size&gt;</i>	The size of the messages. Number range from=0 to=5000000
---------------------	--

**Command Mode:** destination : Configure destination Parameters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# callhome common
(config-callhome)# destination-profile
(config-callhome-destnprof)# destination <WORD>
(config-callhome-destnprof-destn)# message-size <NUMBER>
```

**message-size <NUMBER>**

**Description:** Configure the size of the message

**Syntax:**

<i>&lt;size&gt;</i>	The size of the messages. Number range from=0 to=5000000
---------------------	--

**Command Mode:** destination : Configure destination Parameters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# smartcallhome common
(config-smartcallhome)# destination-profile
(config-callhome-destnprof)# destination <WORD>
(config-callhome-destnprof-destn)# message-size <NUMBER>
```

# metric

## metric version 64bit

**Description:** Set EIGRP Metric Style

**Syntax:**

version	Metric Style
64bit	wide metric

**Command Mode:** template eigrp vrf-policy : Configure EIGRP VRF policy templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template eigrp vrf-policy <WORD> tenant <WORD>
(config-template-eigrp-vrf-pol)# metric version 64bit
```

## metric version 64bit

**Description:** Set EIGRP Metric Style

**Syntax:**

version	Metric Style
64bit	wide metric

**Command Mode:** address-family : EIGRP Policy Address Family

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# router eigrp default
(config-eigrp)# vrf member tenant <WORD> vrf <WORD>
(config-eigrp-vrf)# address-family ipv4|ipv6 unicast
(config-address-family)# metric version 64bit
```

## metric version 64bit

**Description:** Set EIGRP Metric Style

**Syntax:**

version	Metric Style
64bit	wide metric

**Command Mode:** template eigrp vrf-policy : Configure EIGRP VRF policy templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# template eigrp vrf-policy <WORD> tenant <WORD>
(config-template-eigrp-vrf-pol)# metric version 64bit
```

**metric version 64bit**

**Description:** Set EIGRP Metric Style

**Syntax:**

version	Metric Style
64bit	wide metric

**Command Mode:** address-family : EIGRP Policy Address Family

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# router eigrp default
(config-eigrp)# vrf member tenant <WORD> vrf <WORD>
(config-eigrp-vrf)# address-family ipv4|ipv6 unicast
(config-address-family)# metric version 64bit
```

# mgmt-cdp

## mgmt-cdp <WORD>

**Description:** Configure CDP policy for management interfaces on spines and leaves

**Syntax:**

<i>WORD</i>	Configure CDP policy for management interfaces on spines and leaves
-------------	---

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# mgmt-cdp <WORD>
```

## mgmt-cdp <arg>

**Description:** Add mgmt CDP policy to policy group

**Syntax:**

<i>arg</i>	
------------	--

**Command Mode:** template leaf-policy-group : Configure Leaf Policy Group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template leaf-policy-group <WORD>
(config-leaf-policy-group)# mgmt-cdp <>
```

## mgmt-cdp <arg>

**Description:** Add mgmt CDP policy to policy group

**Syntax:**

<i>arg</i>	
------------	--

**Command Mode:** template spine-policy-group : Configure Spine Policy Group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template spine-policy-group <WORD>
(config-spine-policy-group)# mgmt-cdp <>
```

# mgmt-connectivity-pref

## mgmt-connectivity-pref inband|ooband

**Description:** Set Mgmt Connectivity Preference

**Syntax:**

inband	Set to inband
ooband	Set to outband

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# mgmt-connectivity-pref inband|ooband
```

# mgmt-epg

**mgmt-epg in-band|out-of-band <WORD>**

**Description:** Select remote path management EPG

**Syntax:**

in-band	In-Band EPG
out-of-band	Out-of-Band EPG
<i>WORD</i>	Management EPG name

**Command Mode:** remote : Remote path configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# remote path <WORD>
(config-remote)# mgmt-epg in-band|out-of-band <WORD>
```

# mgmt-lldp

## mgmt-lldp <WORD>

**Description:** Configure LLDP policy for management interfaces on spines and leaves

**Syntax:**

<i>WORD</i>	Configure LLDP policy for management interfaces on spines and leaves
-------------	--

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# mgmt-lldp <WORD>
```

## mgmt-lldp <arg>

**Description:** Add mgmt LLDP policy to policy group

**Syntax:**

<i>arg</i>	
------------	--

**Command Mode:** template leaf-policy-group : Configure Leaf Policy Group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template leaf-policy-group <WORD>
(config-leaf-policy-group)# mgmt-lldp <>
```

## mgmt-lldp <arg>

**Description:** Add mgmt LLDP policy to policy group

**Syntax:**

<i>arg</i>	
------------	--

**Command Mode:** template spine-policy-group : Configure Spine Policy Group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template spine-policy-group <WORD>
(config-spine-policy-group)# mgmt-lldp <>
```

# microsoft-domain

**microsoft-domain** <WORD> [delimiter <WORD>]

**Description:** Create a VMM Microsoft Domain

**Syntax:**

<i>WORD</i>	VMM Microsoft Domain name
<i>WORD</i>	(Optional) Custom Delimiter

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# microsoft-domain <WORD> [delimiter <WORD>]
```

**microsoft-domain member** <WORD> [encap <WORD>] [primary-encap <WORD>] [deploy <WORD>] [push <WORD>] [delimiter <WORD>]

**Description:** Associate EPG to a Microsoft Domain

**Syntax:**

member	Bind the EPG to a Microsoft domain
<i>WORD</i>	Microsoft Domain Name
<i>WORD</i>	(Optional) Enforce encap value. Secondary encap when EPG is isolated (For example vlan-10 or auto)
<i>WORD</i>	(Optional) Primary encap when EPG is isolated (For example vlan-11 or auto)
<i>WORD</i>	(Optional) Deployment mode
<i>WORD</i>	(Optional) Push mode
<i>WORD</i>	(Optional) Custom Delimiter

**Command Mode:** epg : AEPg configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# application <WORD>
(config-tenant-app)# epg <WORD> [type <WORD>]
(config-tenant-app-epg)# microsoft-domain member <WORD> [encap <WORD>] [primary-encap <WORD>]
[deploy <WORD>] [push <WORD>] [delimiter <WORD>]
```



# microsoft

**microsoft static-ip-pool <name> gateway <gwAddress>**

**Description:** Configure static IP pool

**Syntax:**

static-ip-pool	Configure the static IP pool
<i>name</i>	enter the name of the static IP pool
gateway	Configure gateway address on interface
<i>gwAddress</i>	gwAddress

**Command Mode:** epg : AEPg configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# application <WORD>
(config-tenant-app)# epg <WORD> [type <WORD>]
(config-tenant-app-epg)# microsoft static-ip-pool <name> gateway <gwAddress>
```

# millisecond

## millisecond

**Description:** Include timestamp in Syslog Msg

**Command Mode:** logging : Logging server group configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# logging server-group <WORD>
(config-logging)# millisecond
```

# min-rx

## min-rx <NUMBER>

**Description:** Configure BFD MIN-RX value in milliseconds

**Syntax:**

<interval>	BFD interval. Number range from=50 to=999
------------	---

**Command Mode:** template bfd : BFD group of commands

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template bfd ip|ipv6 <WORD>
(config-bfd)# min-rx <NUMBER>
```

## min-rx <NUMBER>

**Description:** Configure required Minimum Rx Interval in milliseconds

**Syntax:**

<interval>	Minimum Rx Interval. Number range from=50 to=999
------------	--

**Command Mode:** template bfd : Configure BFD Interface Policy Templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template bfd <WORD> tenant <WORD>
(config-template-bfd-pol)# min-rx <NUMBER>
```

## min-rx <NUMBER>

**Description:** Configure required Minimum Rx Interval in milliseconds

**Syntax:**

<interval>	Minimum Rx Interval. Number range from=50 to=999
------------	--

**Command Mode:** template bfd : Configure BFD Interface Policy Templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# template bfd <WORD> tenant <WORD>
(config-template-bfd-pol)# min-rx <NUMBER>
```

# min-tx

## min-tx <NUMBER>

**Description:** Configure BFD MIN-TX value in milliseconds

**Syntax:**

<interval>	BFD interval. Number range from=50 to=999
------------	---

**Command Mode:** template bfd : BFD group of commands

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template bfd ip|ipv6 <WORD>
(config-bfd)# min-tx <NUMBER>
```

## min-tx <NUMBER>

**Description:** Configure required Minimum Tx Interval in milliseconds

**Syntax:**

<interval>	Minimum Tx Interval. Number range from=50 to=999
------------	--

**Command Mode:** template bfd : Configure BFD Interface Policy Templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template bfd <WORD> tenant <WORD>
(config-template-bfd-pol)# min-tx <NUMBER>
```

## min-tx <NUMBER>

**Description:** Configure required Minimum Tx Interval in milliseconds

**Syntax:**

<interval>	Minimum Tx Interval. Number range from=50 to=999
------------	--

**Command Mode:** template bfd : Configure BFD Interface Policy Templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# template bfd <WORD> tenant <WORD>
(config-template-bfd-pol)# min-tx <NUMBER>
```

# min

**min buffer <0-3>**

**Description:** Set the minimum number of buffer of MTU size to be reserved

**Syntax:**

buffer	Number of minim buffers to reserve
<0-3>	Number of minim buffers to reserve

**Command Mode:** qos parameters : Configure the global QOS policies

**Command Path:**

```
# configure [['terminal', 't']]
(config)# qos parameters <WORD>
(config-qos)# min buffer <0-3>
```

# minimum-hop-limit

**minimum-hop-limit** <NUMBER>

**Description:** Config minimum hop limit in router advertisement guard policy

**Syntax:**

<hop-limit>	Specify hop limit. Number range from=1 to=255
-------------	---

**Command Mode:** router-advertisement-guard : Configuration for router advertisement guard policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# first-hop-security
(config-tenant-fhs)# security-policy <WORD>
(config-tenant-fhs-secpol)# router-advertisement-guard
(config-tenant-fhs-raguard)# minimum-hop-limit <NUMBER>
```

# minthreshold

**minthreshold** <minThresholdValue>

**Description:** Setting minimum threshold for WRED

**Syntax:**

<i>minThresholdValue</i>	Setting minimum threshold for WRED. Number range from=0 to=100
--------------------------	--

**Command Mode:** algo : Configure the global QOS policies

**Command Path:**

```
# configure [['terminal', 't']]
(config)# qos parameters <WORD>
(config-qos)# algo wred|tail-drop
(config-qos-algo)# minthreshold <minThresholdValue>
```

# mode-type

**mode-type** <mode-type>

**Description:** Set mode type for fast link failover policy

**Syntax:**

<i>mode-type</i>	Mode Type
------------------	-----------

**Command Mode:** link-failover-policy : Configure Fast Link Failover policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# link-failover-policy <WORD>
(config-link-failover-policy)# mode-type <mode-type>
```



# mode

## mode active|passive

**Description:** Set Lag policy mode to be active/passive

**Syntax:**

active	Set Enhanced Lacp Mode to ACTIVE
passive	Set Enhanced Lacp mode to PASSIVE

**Command Mode:** enhancedlacp : Configure Enhanced LACP mode on DVS uplink ports

**Command Path:**

```
# configure [['terminal', 't']]
(config)# vmware-domain <WORD> [delimiter <WORD>] [access-mode <access-mode>]
[number-of-uplinks <number-of-uplinks>]
(config-vmware)# enhancedlacp <lag-policy-name>
(config-vmware-enhancedlacp)# mode active|passive
```

## mode <power mode>

**Description:** Set mode

**Syntax:**

<i>power mode</i>	Power Mode
-------------------	------------

**Command Mode:** switchport power-over-ethernet : Power Over Ethernet configuration

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template policy-group <WORD>
(config-pol-grp-if)# switchport power-over-ethernet <WORD>
(config-power-over-ethernet)# mode <power mode>
```

## mode atomic|best-effort

**Description:** Snapshot import mode atomic|best-effort

**Syntax:**

atomic	Atomic mode
best-effort	Best Effort mode

**Command Mode:** snapshot import : Configuration import setup mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# snapshot import <WORD>
(config-import)# mode atomic|best-effort
```

### mode None|Dom

**Description:** Configure Node Control Mode

#### Syntax:

None	Disable Dom (Digital Optical Monitoring)
Dom	Enable Dom (Digital Optical Monitoring)

**Command Mode:** node-control : Create a Node Control Policy

#### Command Path:

```
# configure [['terminal', 't']]
(config)# node-control policy <WORD>
(config-node)# mode None|Dom
```

# modulus

**modulus** <modulus>

**Description:** Set the length of the encryption keys

**Syntax:**

<modulus>	<modulus>
-----------	-----------

**Command Mode:** crypto keyring : A keyring mode to create and hold an SSL certificate

**Command Path:**

```
# configure [['terminal', 't']]
(config)# crypto keyring <WORD>
(config-keyring)# modulus <modulus>
```

# monitor

## monitor virtual session <WORD>

**Description:** Configure a monitor session

### Syntax:

virtual	virtual
session	session
<i>WORD</i>	session name (Max Size 64)

**Command Mode:** configure-avs : Configure a VMWare Domain as AVS (N1K) type

### Command Path:

```
# configure [['terminal', 't']]
(config)# vmware-domain <WORD> [delimiter <WORD>] [access-mode <access-mode>]
[number-of-uplinks <number-of-uplinks>]
(config-vmware)# configure-avs
(config-vmware-avs)# monitor virtual session <WORD>
```

## monitor virtual session <WORD>

**Description:** Configure a monitor session

### Syntax:

virtual	virtual
session	session
<i>WORD</i>	session name (Max Size 64)

**Command Mode:** configure-ave : Configure a Cisco AVE domain

### Command Path:

```
# configure [['terminal', 't']]
(config)# vmware-domain <WORD> [delimiter <WORD>] [access-mode <access-mode>]
[number-of-uplinks <number-of-uplinks>]
(config-vmware)# configure-ave
(config-vmware-ave)# monitor virtual session <WORD>
```

# monitor access filter-group

**monitor access filter-group** <WORD>

**Description:** Configure filter groups

**Syntax:**

<i>WORD</i>	Filter group name (Max Size 64)
-------------	---------------------------------

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# monitor access filter-group <WORD>
```

# monitor access session

**monitor access session** <session\_name>

**Description:** Configure monitor session for access interfaces

**Syntax:**

<i>session_name</i>	session name (Max Size 59)
---------------------	----------------------------

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]  
(config)# monitor access session <session_name>
```

# monitor fabric

**monitor fabric session <session\_name>**

**Description:** Configure monitor session for fabric interfaces

**Syntax:**

session	session
<i>session_name</i>	session name (Max Size 59)

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]  
(config)# monitor fabric session <session_name>
```

# monitor tenant

**monitor tenant** <tenant\_name> session <WORD>

**Description:** Configure monitor session for tenant EPGs

**Syntax:**

<i>tenant_name</i>	tenant name (Max Size 63)
session	session
<i>WORD</i>	session name (Max Size 59)

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# monitor tenant <tenant_name> session <WORD>
```



# monitor virtual

**monitor virtual session <WORD>**

**Description:** Configure monitor session for virtual switches

**Syntax:**

session	session
<i>WORD</i>	Session name (Max Size 64)

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# monitor virtual session <WORD>
```

# monitoring-password

## monitoring-password

**Description:** Password for the user to be used for server monitoring

**Command Mode:** ldap-server host : LDAP server DNS name or IP address

**Command Path:**

```
# configure [['terminal', 't']]
(config)# ldap-server host <A.B.C.D|A:B::C:D|WORD>
(config-host)# monitoring-password
```

## monitoring-password

**Description:** Password for the user to be used for server monitoring

**Command Mode:** radius-server host : RADIUS server's DNS name or its IP address

**Command Path:**

```
# configure [['terminal', 't']]
(config)# radius-server host <A.B.C.D|A:B::C:D|WORD>
(config-host)# monitoring-password
```

## monitoring-password

**Description:** Password for the user to be used for server monitoring

**Command Mode:** rsa-server host : RSA server's DNS name or its IP address

**Command Path:**

```
# configure [['terminal', 't']]
(config)# rsa-server host <A.B.C.D|A:B::C:D|WORD>
(config-host)# monitoring-password
```

## monitoring-password

**Description:** Password for the user to be used for server monitoring

**Command Mode:** tacacs-server host : TACACS+ server's DNS name or its IP address

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tacacs-server host <A.B.C.D|A:B::C:D|WORD>
(config-host)# monitoring-password
```

# monitoring-user

## monitoring-user <username>

**Description:** Username for the user to be used for server monitoring

**Syntax:**

<i>username</i>	Username for the user to be used for server monitoring
-----------------	--

**Command Mode:** ldap-server host : LDAP server DNS name or IP address

**Command Path:**

```
# configure [['terminal', 't']]
(config)# ldap-server host <A.B.C.D|A:B::C:D|WORD>
(config-host)# monitoring-user <username>
```

## monitoring-user <username>

**Description:** Username for the user to be used for server monitoring

**Syntax:**

<i>username</i>	Username for the user to be used for server monitoring
-----------------	--

**Command Mode:** radius-server host : RADIUS server's DNS name or its IP address

**Command Path:**

```
# configure [['terminal', 't']]
(config)# radius-server host <A.B.C.D|A:B::C:D|WORD>
(config-host)# monitoring-user <username>
```

## monitoring-user <username>

**Description:** Username for the user to be used for server monitoring

**Syntax:**

<i>username</i>	Username for the user to be used for server monitoring
-----------------	--

**Command Mode:** rsa-server host : RSA server's DNS name or its IP address

**Command Path:**

```
# configure [['terminal', 't']]
(config)# rsa-server host <A.B.C.D|A:B::C:D|WORD>
(config-host)# monitoring-user <username>
```

**monitoring-user <username>**

**Description:** Username for the user to be used for server monitoring

**Syntax:**

<i>username</i>	Username for the user to be used for server monitoring
-----------------	--

**Command Mode:** tacacs-server host : TACACS+ server's DNS name or its IP address

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tacacs-server host <A.B.C.D|A:B::C:D|WORD>
(config-host)# monitoring-user <username>
```

# moquery

To display the properties of a managed object (MO), use the **moquery** command.

```
moquery{--help|--host host-id|--port portname|--dn dn|--klass classname|--filter
property|--attrs attributes|--output output|--user username|--options options}
```

Syntax	Description
<b>--help</b> or <b>-h</b>	Specifies an APIC host.
<b>--host</b> or <b>-i</b>	Specifies an APIC host.
<i>host-id</i>	The host name or IP address of an APIC.
<b>--port</b> or <b>-p</b>	Specifies a port for a REST interface.
<i>portname</i>	The REST interface port number.
<b>--dn</b> or <b>-d</b>	Specifies a distinguished name (DN) for a managed object (MO).
<i>dn</i>	The DN of an MO.
<b>--klass</b> or <b>-c</b>	Specifies a class name for the query.
<i>classname</i>	Specifies a class. You can enter multiple classes separated by commas.
<b>--filter</b> or <b>-f</b>	Specifies a property on which to filter MOs.
<i>property</i>	The property on which to filter MOs.
<b>--attrs</b> or <b>-a</b>	Specifies the attributes that the query displays.
<i>attributes</i>	The type of attributes to display. You can choose <b>config</b> (configuration attributes) or <b>all</b> . If config is selected, only configurable attributes are displayed. Unless the <b>table</b> output format is specified, the default is <b>all</b> .
<b>--output</b> or <b>-o</b>	Specifies a query output format.
<i>output</i>	The query output format. You can choose <b>json</b> , <b>xml</b> , <b>block</b> , or <b>table</b> .
<b>--user</b> or <b>-u</b>	Specifies a user name.
<i>username</i>	The user name.
<b>--options</b> or <b>-x</b>	Specifies query options.
<i>options</i>	The query options to enable. For more information, see Usage Guidelines.

## Usage Guidelines

To use the **moquery** command, you must first invoke a bash shell by using the **bash** command in the APIC NX-OS style CLI. To return to the APIC CLI, use the **quit** command in the bash shell.

Using **--options** (or **-x**), you can specify query options as supported by the REST API. You can add multiple options statements to the command, using syntax such as the following:

```
-x [OPTIONS [OPTIONS ...]] [-x [OPTIONS [OPTIONS ...]]]
```

For example:

```
moquery -c firmwareCtrlrFwStatusCont -x query-target=subtree  
target-subtree-class=firmwareCtrlrRunning
```

### Example

The following example shows how to use the **moquery** command:

```
apicl# bash  
admin@apicl:~> moquery --dn unallocencap-[uni/infra]  
Total Objects shown: 1  
  
# stp.UnAllocEncapCont  
infraPKey      : uni/infra  
allocSize      : 0  
childAction    :  
descr          :  
dn             : unallocencap-[uni/infra]  
lastAssigned   : 8192  
lcOwn          : local  
modTs         : 2014-07-26T16:46:27.176+00:00  
name           :  
ownerKey       :  
ownerTag       :  
rn             : unallocencap-[uni/infra]  
size           : 0  
status         :  
  
admin@apicl:~> exit  
exit  
apicl#
```

# mtu-ignore

## mtu-ignore

**Description:** Disable OSPF MTU mismatch detection

**Command Mode:** template ospf interface-policy : Configure OSPF Interface Policy Templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template ospf interface-policy <WORD> tenant <WORD>
(config-interface-policy)# mtu-ignore
```

## mtu-ignore

**Description:** Disable OSPF MTU mismatch detection

**Command Mode:** template ospf interface-policy : Configure OSPF Interface Policy Templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# template ospf interface-policy <WORD> tenant <WORD>
(config-interface-policy)# mtu-ignore
```

# mtu

## mtu <1500-9216>

**Description:** Set the MTU for this class of service

**Syntax:**

<1500-9216>	MTU value
-------------	-----------

**Command Mode:** qos parameters : Configure the global QOS policies

**Command Path:**

```
# configure [['terminal', 't']]
(config)# qos parameters <WORD>
(config-qos)# mtu <1500-9216>
```

## mtu <NUMBER>

**Description:** Set the interface Maximum Transmission Unit (MTU)

**Syntax:**

<576-9216>	Interface MTU. Number range from=576 to=9216
------------	--

**Command Mode:** interface vlan : Vlan interface

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# mtu <NUMBER>
```

## mtu <NUMBER>

**Description:** Set the interface Maximum Transmission Unit (MTU)

**Syntax:**

<576-9216>	Interface MTU. Number range from=576 to=9216
------------	--

**Command Mode:** interface ethernet : Ethernet IEEE 802.3z

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface ethernet <ifRange>
(config-leaf-if)# mtu <NUMBER>
```



**mtu <NUMBER>****Description:** Set the interface Maximum Transmission Unit (MTU)**Syntax:**

<576-9216>	Interface MTU. Number range from=576 to=9216
------------	--

**Command Mode:** interface port-channel : Port Channel interface**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface port-channel <WORD> [fex <fex>]
(config-leaf-if)# mtu <NUMBER>
```

**mtu <NUMBER>****Description:** Set the interface Maximum Transmission Unit (MTU)**Syntax:**

<576-9216>	Interface MTU. Number range from=576 to=9216
------------	--

**Command Mode:** virtual-interface-profile : Configure virtual interface profile**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# virtual-interface-profile vlan <1-4094> tenant <WORD> vrf <WORD> [l3out
<l3out>]
(virtual-interface-profile)# mtu <NUMBER>
```

**mtu <NUMBER>****Description:** Set the interface Maximum Transmission Unit (MTU)**Syntax:**

<576-9216>	Interface MTU. Number range from=576 to=9216
------------	--

**Command Mode:** interface vlan : Vlan interface**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# mtu <NUMBER>
```

**mtu <NUMBER>****Description:** Set the interface Maximum Transmission Unit (MTU)

**Syntax:**

<576-9216>	Interface MTU. Number range from=576 to=9216
------------	--

**Command Mode:** interface ethernet : Ethernet IEEE 802.3z**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface ethernet <ifRange>
(config-leaf-if)# mtu <NUMBER>
```

**mtu <NUMBER>****Description:** Set the interface Maximum Transmission Unit (MTU)**Syntax:**

<576-9216>	Interface MTU. Number range from=576 to=9216
------------	--

**Command Mode:** interface port-channel : Port Channel interface**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface port-channel <WORD> [fex <fex>]
(config-leaf-if)# mtu <NUMBER>
```

**mtu <NUMBER>****Description:** Set the interface Maximum Transmission Unit (MTU)**Syntax:**

<576-9216>	Interface MTU. Number range from=576 to=9216
------------	--

**Command Mode:** virtual-interface-profile : Configure virtual interface profile**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# virtual-interface-profile vlan <1-4094> tenant <WORD> vrf <WORD> [l3out
<l3out>]
(virtual-interface-profile)# mtu <NUMBER>
```

**mtu <arg>****Description:** Update MTU value in Netflow Node-policy**Syntax:**

<i>arg</i>	Configure MTU value in Netflow Node-policy. Number range from=576 to=9216
------------	---

**Command Mode:** flow node-policy : Configure Netflow Node Policy Parameters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# flow node-policy <WORD>
(config-flow-node-pol)# mtu <>
```

**mtu <mtu>**

**Description:** MTU size

**Syntax:**

<i>mtu</i>	mtu value. Number range from=64 to=9216
------------	---

**Command Mode:** destination tenant : Configure monitor remote destination

**Command Path:**

```
# configure [['terminal', 't']]
(config)# monitor access session <session_name>
(config-monitor-access)# destination tenant <tenant_name> application <application_name>
epg <epg_name> destination-ip <A.B.C.D> source-ip-prefix <A.B.C.D/M>
(config-monitor-access-dest)# mtu <mtu>
```

**mtu <mtu>**

**Description:** MTU size

**Syntax:**

<i>mtu</i>	mtu value. Number range from=64 to=9216
------------	---

**Command Mode:** destination : Configure monitor remote destination

**Command Path:**

```
# configure [['terminal', 't']]
(config)# monitor fabric session <session_name>
(config-monitor-fabric)# destination tenant <tenant_name> application <application_name>
epg <epg_name> destination-ip <A.B.C.D> source-ip-prefix <A.B.C.D/M>
(config-monitor-fabric-dest)# mtu <mtu>
```

**mtu <arg>**

**Description:** MTU size

**Syntax:**

<i>arg</i>	mtu value. Number range from=64 to=9216
------------	---

**Command Mode:** destination : Configure monitor remote destination

**Command Path:**

```
# configure [['terminal', 't']]
(config)# monitor tenant <tenant_name> session <WORD>
(config-monitor-tenant)# destination tenant <tenant_name> application <application_name>
epg <epg_name> destination-ip <A.B.C.D> source-ip-prefix <A.B.C.D/M>
(config-monitor-tenant-dest)# mtu <>
```

**mtu <arg>**

**Description:** Configure MTU size

**Syntax:**

<i>arg</i>	MTU value. Number range from=64 to=9216
------------	---

**Command Mode:** destination destip : Configure monitor remote destination

**Command Path:**

```
# configure [['terminal', 't']]
(config)# monitor virtual session <WORD>
(config-monitor-virtual)# destination destip <A.B.C.D>
(config-monitor-virtual-remote-dest)# mtu <>
```

# multi-destination

**multi-destination <WORD>**

**Description:** Change behavior for multi destination flood

**Syntax:**

<i>WORD</i>	Unknown multicast MAC and Broadcast handling
-------------	--

**Command Mode:** bridge-domain : Configuration for bridge-domain

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# bridge-domain <WORD>
(config-tenant-bd)# multi-destination <WORD>
```

# multi-site-mac-address

**multi-site-mac-address** *E.E.E*|*EE-EE-EE-EE-EE-EE*|*EE:EE:EE:EE:EE:EE*|*EEEE.EEEE.EEEE*

**Description:** Configure multi-site MAC address

**Syntax:**

<i>E.E.E</i>	MAC address (Option 1)
<i>EE-EE-EE-EE-EE-EE</i>	MAC address (Option 2)
<i>EE:EE:EE:EE:EE:EE</i>	MAC address (Option 3)
<i>EEEE.EEEE.EEEE</i>	MAC address (Option 4)

**Command Mode:** interface : Configuration for interface bridge-domain

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# interface bridge-domain <WORD>
(config-tenant-interface)# multi-site-mac-address
E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE
```

# multicast-address

## multicast-address <IP>

**Description:** Configure outgoing multicast IP address for VXLAN modes

### Syntax:

<i>IP</i>	Multicast IP
-----------	--------------

**Command Mode:** configure-avs : Configure a VMWare Domain as AVS (N1K) type

### Command Path:

```
# configure [['terminal', 't']]
(config)# vmware-domain <WORD> [delimiter <WORD>] [access-mode <access-mode>]
[number-of-uplinks <number-of-uplinks>]
(config-vmware)# configure-avs
(config-vmware-avs)# multicast-address <IP>
```

## multicast-address <IP>

**Description:** Configure outgoing multicast IP address for VXLAN modes

### Syntax:

<i>IP</i>	Multicast IP
-----------	--------------

**Command Mode:** configure-ave : Configure a Cisco AVE domain

### Command Path:

```
# configure [['terminal', 't']]
(config)# vmware-domain <WORD> [delimiter <WORD>] [access-mode <access-mode>]
[number-of-uplinks <number-of-uplinks>]
(config-vmware)# configure-ave
(config-vmware-ave)# multicast-address <IP>
```

# multiplier

## multiplier <NUMBER>

**Description:** Configure BFD MULTIPLIER value

**Syntax:**

<interval>	BFD interval. Number range from=1 to=50
------------	---

**Command Mode:** template bfd : BFD group of commands

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template bfd ip|ipv6 <WORD>
(config-bfd)# multiplier <NUMBER>
```

## multiplier <NUMBER>

**Description:** Configure detection multiplier

**Syntax:**

<interval>	Detection multiplier. Number range from=1 to=50
------------	---

**Command Mode:** template bfd : Configure BFD Interface Policy Templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template bfd <WORD> tenant <WORD>
(config-template-bfd-pol)# multiplier <NUMBER>
```

## multiplier <NUMBER>

**Description:** Configure detection multiplier

**Syntax:**

<interval>	Detection multiplier. Number range from=1 to=50
------------	---

**Command Mode:** template bfd : Configure BFD Interface Policy Templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# template bfd <WORD> tenant <WORD>
(config-template-bfd-pol)# multiplier <NUMBER>
```