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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: 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-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>]
(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-nic-prof

managed-nic-prof <externalId> <vmm-domain>

Description: Managed Nic Profile

Syntax:

| | |
|-------------------|------------------|
| <i>externalId</i> | Managed Nic Prof |
| <i>vmm-domain</i> | VMM Domain |

Command Mode: external-switch-node : External Switch Node

Command Path:

```
# configure [['terminal', 't']]
(config)# system external-switch-group <group-name>
(config-external-switch-group)# external-switch-node <node-name>
(config-external-switch-node)# managed-nic-prof <externalId> <vmm-domain>
```

managed-uplink-prof

managed-uplink-prof <externalId>

Description: Managed Uplink Profile

Syntax:

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

Command Mode: external-switch-node : External Switch Node

Command Path:

```
# configure [['terminal', 't']]
(config)# system external-switch-group <group-name>
(config-external-switch-group)# external-switch-node <node-name>
(config-external-switch-node)# managed-uplink-prof <externalId>
```

management-epg

management-epg <WORD>

Description: Set the TACACS+ accounting mgmt epg

Syntax:

| | |
|-------------|--------------|
| <i>WORD</i> | 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>
```

management-uri

management-uri <management-uri>

Description: Management URI

Syntax:

| | |
|-----------------------|----------------|
| <i>management-uri</i> | Management URI |
|-----------------------|----------------|

Command Mode: external-switch-node : External Switch Node

Command Path:

```
# configure [['terminal', 't']]
(config)# system external-switch-group <group-name>
(config-external-switch-group)# external-switch-node <node-name>
(config-external-switch-node)# management-uri <management-uri>
```


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 ep

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 ep : External L3 EPG configuration mode

Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# external-l3 ep <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:

| | |
|-----------------|-------------------------------------|
| X:X:X:X:<0-128> | 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 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><from>-[<to>] contained in <0-65535></i> | (Optional) TCP Source port Range |
| <i><from>-[<to>] contained in <0-65535></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><from>-[<to>] contained in <0-65535></i> | (Optional) UDP Source port Range |
| <i><from>-[<to>] contained in <0-65535></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|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|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 |
| WORD | Cluster Device name (Max Size 64) |
| device-interface | Cluster Device Interface |
| WORD | 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><size></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><size></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-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>
```

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:

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

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>]
(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>]
(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>]
(config-vmware)# configure-ave
(config-vmware-ave)# monitor virtual session <WORD>
```

monitor access

monitor access session <session_name>

Description: Configure monitor session for access 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 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 | --class classname |
--filter property | --attrs attributes | --output output | -user username | --options
options }
```

Syntax Description

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

