



## **Cisco APIC NX-OS Style CLI Command Reference, Release 4.0(1)**

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## Preface

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- [Document Conventions, on page lxxi](#)
- [Related Documentation, on page lxxii](#)
- [Documentation Feedback, on page lxxiii](#)

## Audience

This guide is intended for network and systems administrators who configure and maintain the Application Centric Infrastructure fabric.

## Document Conventions

Command descriptions use the following conventions:

| Convention      | Description   |
|-----------------|---|
| <b>bold</b>     | Bold text indicates the commands and keywords that you enter literally as shown.  |
| <i>Italic</i>   | Italic text indicates arguments for which the user supplies the values.   |
| [x]             | Square brackets enclose an optional element (keyword or argument).  |
| [x   y]         | Square brackets enclosing keywords or arguments separated by a vertical bar indicate an optional choice.  |
| {x   y}         | Braces enclosing keywords or arguments separated by a vertical bar indicate a required choice.  |
| [x {y   z}]     | Nested set of square brackets or braces indicate optional or required choices within optional or required elements. Braces and a vertical bar within square brackets indicate a required choice within an optional element. |
| <i>variable</i> | Indicates a variable for which you supply values, in context where italics cannot be used.  |

| Convention | Description   |
|------------|---|
| string     | A nonquoted set of characters. Do not use quotation marks around the string or the string will include the quotation marks. |

Examples use the following conventions:

| Convention                  | Description   |
|-----------------------------|---|
| <code>screen font</code>    | Terminal sessions and information the switch displays are in screen font.                                 |
| <b>boldface screen font</b> | Information you must enter is in boldface screen font.  |
| <i>italic screen font</i>   | Arguments for which you supply values are in italic screen font.  |
| < >                         | Nonprinting characters, such as passwords, are in angle brackets.   |
| [ ]                         | Default responses to system prompts are in square brackets.   |
| !, #                        | An exclamation point (!) or a pound sign (#) at the beginning of a line of code indicates a comment line. |

This document uses the following conventions:



**Note** Means *reader take note*. Notes contain helpful suggestions or references to material not covered in the manual.



**Caution** Means *reader be careful*. In this situation, you might do something that could result in equipment damage or loss of data.



**Warning** IMPORTANT SAFETY INSTRUCTIONS

This warning symbol means danger. You are in a situation that could cause bodily injury. Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents. Use the statement number provided at the end of each warning to locate its translation in the translated safety warnings that accompanied this device.

SAVE THESE INSTRUCTIONS

## Related Documentation

### Cisco Application Centric Infrastructure (ACI) Documentation

The ACI documentation is available at the following URL: <http://www.cisco.com/c/en/us/support/cloud-systems-management/application-policy-infrastructure-controller-apic/tsd-products-support-series-home.html>.



**Cisco Application Centric Infrastructure (ACI) Simulator Documentation**

The Cisco ACI Simulator documentation is available at <http://www.cisco.com/c/en/us/support/cloud-systems-management/application-centric-infrastructure-simulator/tsd-products-support-series-home.html>.

**Cisco Nexus 9000 Series Switches Documentation**

The Cisco Nexus 9000 Series Switches documentation is available at <http://www.cisco.com/c/en/us/support/switches/nexus-9000-series-switches/tsd-products-support-series-home.html>.

**Cisco Application Virtual Switch Documentation**

The Cisco Application Virtual Switch (AVS) documentation is available at <http://www.cisco.com/c/en/us/support/switches/application-virtual-switch/tsd-products-support-series-home.html>.

**Cisco Application Centric Infrastructure (ACI) Integration with OpenStack Documentation**

Cisco ACI integration with OpenStack documentation is available at <http://www.cisco.com/c/en/us/support/cloud-systems-management/application-policy-infrastructure-controller-apic/tsd-products-support-series-home.html>.

## Documentation Feedback

To provide technical feedback on this document, or to report an error or omission, please send your comments to [apic-docfeedback@cisco.com](mailto:apic-docfeedback@cisco.com). We appreciate your feedback.





## Using the APIC CLI

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- [Using the NX-OS Style CLI, on page 2](#)

# Using the NX-OS Style CLI



**Note** The APIC NX-OS style CLI uses similar syntax and other conventions to the Cisco NX-OS CLI, but the APIC operating system is not a version of Cisco NX-OS software. Do not assume that a Cisco NX-OS CLI command works with or has the same function on the APIC CLI.

## Abbreviating Commands

You can abbreviate commands and keywords by entering the first few characters of a command. The abbreviation must include sufficient characters to make it unique from other commands or keywords. If you are having trouble entering a command, check the system prompt and enter the question mark (?) for a list of available commands. You might be in the wrong command mode or using incorrect syntax. Command abbreviation is shown in the following example:

```
apic1# show aaa authentication
Default : local
Console : local

apic1# sh aa a
Default : local
Console : local
```

## Command Completion

To complete a command or keyword after entering an abbreviated string, press the **Tab** key. The CLI completes the command or keyword only if the partial string matches only one command or keyword.



**Note** Some commands, such as `show hardware internal power-management`, require the **Tab** key for partial completion and the **ESC** key for the remainder of the completion.

## Viewing Command Options

After typing a partial command, you can display the command options by typing a question mark (?), as shown in the following example:

```
apic1# show aaa ?
authentication  Show AAA Authentication information
groups          Show AAA group information
```

## Command History

The history buffer stores the previous commands you entered. Using the **Up** arrow key (or typing **Ctrl-P**), you can recall commands in the history buffer, beginning with the most recent command. Repeat the key sequence to recall successively older commands. To return to more recent commands in the history buffer after recalling commands, use the **Down** arrow key or type **Ctrl-N**.

## Filtering show Command Output

You can use the vertical bar (|) with any show command and include a filter option and filtering expression. The filtering is performed by matching each output line with a regular expression. By selecting different filter options you can include or exclude all output that matches the expression. You can also display all output beginning with the line that matches the expression.

An example of filtering options with the show command is as follows:

```
apic1# show aaa authentication
Default : local
Console : local

apic1# show aaa authentication | grep Console
Console : local
apic1#
```

## Displaying a List of Commands and Syntax

To display a list of CLI commands and their syntax, use the **show cli list** command, as shown in the following example

```
apic1# show cli list
[ ] [mode] [None] ] exec
[cfg ] [mode] [exec] ] configure [['terminal', 't']]
[cfg ] [mode] [configure] ] power redundancy-policy <WORD>
[cfg ] [cmd ] [power] ] redundancy-mode combined|ps-redundant|redundant
.
.
.
```

You can filter the output of this command, as shown in the following example:

```
apic1# show cli list | grep ntp
[cfg ] [mode] [pod] ] ntp
[cfg ] [cmd ] [ntp] ] authenticate
[cfg ] [cmd ] [ntp] ] authentication-key <id> [md5 <md5>]
.
.
.
```

## Negating a Command with the no Prefix

Almost every configuration command has a **no** form that can be used to disable a feature, revert to a default value, or remove a configuration.

To disable a feature, remove a created object, or revert a configuration setting to its default value, most configuration commands can be preceded with the prefix '**no**'.





## New, Changed, and Deprecated Commands

---

- [New, Changed, and Deprecated Commands in Cisco APIC Release 4.0\(1\)](#), on page 6

# New, Changed, and Deprecated Commands in Cisco APIC Release 4.0(1)

The following sections describe changes in the APIC NXOS-style CLI since Release 3.2(1) .

## New Commands

The following commands are added in this release.

- advertise-host-routes
- algo wred|tail-drop
- attach-ave-ng <OpflexDevid>
- authsvr <WORD> <WORD> <svrMgmt> <WORD>
- authsvrgrp <WORD>
- avail-monitor enable
- ave-hbinterval <WORD>
- ave-timeout <WORD>
- clear tenant <WORD> bridge-domain <WORD> first-hop-security violation-event all
- client-cert-ca <ca-name>
- client-cert-state-enable
- compatibility-check
- config-file <config-file>
- consumption <4000-30000>
- consumption <consumption>
- ecn enabled|disabled
- enhancedlACP <lag-policy-name>
- epg tenant <> application <> epg <>
- esx-avail-override <esx-hostname> green|yellow|red
- external-switch-node <node-name>
- fc-channel-group <WORD>
- fwdnonecn enabled|disabled
- inherit ipsla <WORD>
- inst-pol <WORD> <vmm-domain> <ctrlr> <vm-template> <resource-pool> <datastore>
- interface fc-port-channel <WORD>



- ip pim fabric-rp-address <A.B.C.D> [route-map <WORD>]
- ip pim inter-vrf-src <WORD> <WORD> [route-map <WORD>]
- ipdataplanelearning disabled
- ipsla-pol <WORD>
- lag-policy <lag-policy-name>
- lbmode <Loadbalancing-Mode>
- managed-nic-prof <externalId> <vmm-domain>
- managed-uplink-prof <externalId>
- management-uri <management-uri>
- max <4000-30000>
- maxthreshold <maxThresholdValue>
- minthreshold <minThresholdValue>
- mode <power mode>
- mode active|passive
- npv traffic-map external-interface fc-port-channel <ifRange> tenant <WORD> label <WORD>
- npv traffic-map server-interface fc <ifRange> label <WORD> tenant <WORD> application <WORD> epg <WORD>
- numlinks <NUMBER>
- password <password>
- policeact <>
- power-over-ethernet <WORD>
- power-over-ethernet consumption <4000-30000>
- power-over-ethernet pwrctrl <power control>
- priority <high|low>
- probability <probabilityValue>
- pskindex <WORD>
- pskstring <WORD>
- pwrctrl <pwrCtrl>
- rotrigger snapshot export <WORD>
- sakexpirytime <NUMBER>
- service-policy type control-plane-if <> <WORD>
- service-policy type data-plane <> <WORD>

- show clouddave
- show cloudsec summary
- show firmware compat matrix <WORD>
- sla-detectmultiplier <NUMBER>
- sla-frequency <NUMBER>
- sla-port <NUMBER>
- sla-type <WORD>
- stoprekey <yes|no>
- switchport fillpattern <>
- switchport power-over-ethernet <WORD>
- switchport power-over-ethernet consumption <4000-30000>
- switchport power-over-ethernet epg tenant <> application <> epg <>
- switchport power-over-ethernet max <4000-30000>
- switchport power-over-ethernet mode <power mode>
- switchport power-over-ethernet policeact <>
- switchport power-over-ethernet priority <high|low>
- switchport power-over-ethernet vlan <1-4094>
- switchport trunkmode <>
- system external-switch-group <group-name>
- template cloudsec <WORD>
- template power-over-ethernet node-policy <WORD>
- trigger-inventory <trigger-inventory>
- troubleshoot extext session <session\_name> atomiccounter
- troubleshoot extext session <session\_name> description <LINE>
- troubleshoot extext session <session\_name> latency [mode <mode>]
- troubleshoot extext session <session\_name> latestminutes <minutes>
- troubleshoot extext session <session\_name> monitor destination apic srcipprefix <sip/m> [analyser <aip>] [erspan-id <id>] [spansrcports <pathep-list>]
- troubleshoot extext session <session\_name> monitor destination prefdestgroup <destgroup\_name> [spansrcports <pathep-list>]
- troubleshoot extext session <session\_name> monitor destination tenant <tn\_name> application <ap\_name> epg <epg\_name> destip <dip> srcipprefix <sip/m> [erspan-id <id>] [spansrcports <pathep-list>]
- troubleshoot extext session <session\_name> scheduler <sch\_name> [format <format>]

- `troubleshoot extext session <session_name> srcextip <srcextip> tenant <stenant_name> l3out <l3out_name> destextip <dstextip> tenant <dtenant_name> l3out <l3out_name>`
- `troubleshoot extext session <session_name> starttime <start_time> endtime <end_time>`
- `troubleshoot extext session <session_name> traceroute`
- `troubleshoot extext session <session_name> traceroute protocol icmp`
- `troubleshoot extext session <session_name> traceroute protocol tcp [destport <port>]`
- `troubleshoot extext session <session_name> traceroute protocol udp [destport <port>]`
- `user <user-name>`
- `vemcmd dp dump bdrvteplist swbd <swbd>`
- `vemcmd dp dump vrvfrvteplist vrvfnid <vrvfnid>`
- `vemcmd dpa dump`
- `vemcmd dpa dump contracts all|agent|uri|log-dp|log-agent`
- `vemcmd dpa dump modb`
- `vemcmd dpa epg add <filename>`
- `vemcmd dpa epg remove <filename>`
- `vemcmd dpa show`
- `vemcmd dpa show contracts`
- `vemcmd dpa show contracts change-list`
- `vemcmd dpa show contracts epg-pair <prov-epg> <cons-epg>`
- `vemcmd dpa show contracts log change-list|contracts|epg`
- `vemcmd show bd`
- `vemcmd show bdsbnet`
- `vemcmd show contracts epg-pairs|filters|stats`
- `vemcmd show coop publish|query`
- `vemcmd show hrep`
- `vemcmd show hrep info`
- `vemcmd show l3`
- `vemcmd show l3 all`
- `vemcmd show macpool <intfname>`
- `vemcmd show mtep ipaddress`
- `vemcmd show vxlanstats`
- `vemcmd show vxlanvtepmmap`

- vemcmd show vxlanvtps
- vemdebug set infra tagging 0|1
- weight <weightValue>

### Changed Commands

The following commands are modified in this release.

- OLD: cluster-device <WORD> [vcenter <WORD>] [vm <WORD>]
- NEW: cluster-device <WORD> [vcenter <WORD>] [vm <WORD>] [host <host>] [management-ip <management-ip>] [gateway <gateway>] [subnet-mask <subnet-mask>] [management-port <management-port>] [management-vnic <management-vnic>] [mgmt-portgroup <mgmt-portgroup>] [ha-portgroup <ha-portgroup>] [ha-vnic <ha-vnic>] [user-name <WORD>]
- OLD: l4l7 cluster name <WORD> type <type> vlan-domain <domain-name> [switching-mode <switching-mode>] [service <service>] [function <function>] [context <context>] [trunking <enable|disable>]
- NEW: l4l7 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>]
- OLD: pause no-drop cos <NUMBER>
- NEW: pause no-drop cos <NUMBER> [fabric]
- OLD: qos parameters level1|level2|level3
- NEW: qos parameters <WORD>
- OLD: server <WORD> [prefer] [key <>] [use-vrf <>]
- NEW: server <WORD> [prefer] [key <>] [use-epg <>] [use-vrf <>]
- OLD: set qos-class unspecified|level1|level2|level3
- NEW: set qos-class unspecified|level1|level2|level3|level4|level5|level6
- OLD: set server-timeout <10-65535>
- NEW: set server-timeout <4-65535>
- OLD: set supp-timeout <10-65535>
- NEW: set supp-timeout <4-65535>
- OLD: set tx-period <10-65535>
- NEW: set tx-period <4-65535>
- OLD: snmp-server trap-fwd-server <server-ip>
- NEW: snmp-server trap-fwd-server <server-ip> [port <port>]

- OLD: switchport port-authentication server-timeout <10-65535>
- NEW: switchport port-authentication server-timeout <4-65535>
- OLD: switchport port-authentication supp-timeout <10-65535>
- NEW: switchport port-authentication supp-timeout <4-65535>
- OLD: switchport port-authentication tx-period <10-65535>
- NEW: switchport port-authentication tx-period <4-65535>
- OLD: template fc-pc <WORD>
- NEW: template fc-port-channel <WORD>
- OLD: vemcmd show l2 <l2\_vlan>
- NEW: vemcmd show l2 all|<0-4096>
- OLD: vemcmd show opflex
- NEW: vemcmd show opflex cloud
- OLD: vmware-domain member <WORD> [encap <WORD>] [primary-encap <WORD>] [allow-micro-segmentation] [deploy <WORD>] [push <WORD>] [delimiter <WORD>]
- NEW: vmware-domain member <WORD> [encap <WORD>] [primary-encap <WORD>] [allow-micro-segmentation] [deploy <WORD>] [push <WORD>] [binding-type staticBinding|dynamicBinding|ephemeral] [port-allocation fixed|elastic] [num-ports <WORD>] [delimiter <WORD>]

### Deprecated Commands

The following command is removed in this release.

- trusted





## A Commands

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# aaa authentication login console

## aaa authentication login console

**Description:** Configure console methods

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# aaa authentication login console
```

# aaa authentication login default

## aaa authentication login default

**Description:** Configure default methods

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# aaa authentication login default
```

# aaa authentication login domain

**aaa authentication login domain <WORD>**

**Description:** Configure domain methods

**Syntax:**

|             |                   |
|-------------|-------------------|
| <i>WORD</i> | Login domain name |
|-------------|-------------------|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# aaa authentication login domain <WORD>
```

# aaa authentication login fallback-check

## aaa authentication login fallback-check

**Description:** checks if default auth servers are active or not before allowing fallback login

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]  
(config)# aaa authentication login fallback-check
```

# aaa authentication login ping-check

## aaa authentication login ping-check

**Description:** Enables ICMP health check of AAA servers

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# aaa authentication login ping-check
```

# aaa banner

**aaa banner** <LINE>

**Description:** CLI informational banner to be displayed before user login (wrap with single quotes)

**Syntax:**

|             |  |
|-------------|--|
| <i>LINE</i> | CLI informational banner to be displayed before user login (wrap with single quotes) (Max Size None) |
|-------------|--|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# aaa banner <LINE>
```

# aaa group server ldap

**aaa group server ldap <WORD>**

**Description:** LDAP server group name.

**Syntax:**

|             |                        |
|-------------|------------------------|
| <i>WORD</i> | LDAP server group name |
|-------------|------------------------|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# aaa group server ldap <WORD>
```

## aaa group server radius

**aaa group server radius** <WORD>

**Description:** RADIUS server group name.

**Syntax:**

|             |                          |
|-------------|--------------------------|
| <i>WORD</i> | RADIUS server group name |
|-------------|--------------------------|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# aaa group server radius <WORD>
```



## aaa group server rsa

**aaa group server rsa <WORD>**

**Description:** RSA server group name.

**Syntax:**

|             |                       |
|-------------|-----------------------|
| <i>WORD</i> | RSA server group name |
|-------------|-----------------------|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# aaa group server rsa <WORD>
```

# aaa group server tacacsplus

**aaa group server tacacsplus <WORD>**

**Description:** TACACS+ server group name.

**Syntax:**

|             |                           |
|-------------|---------------------------|
| <i>WORD</i> | TACACS+ server group name |
|-------------|---------------------------|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]  
(config)# aaa group server tacacsplus <WORD>
```

# aaa user default-role

**aaa user default-role <default-role-policy>**

**Description:** Default role assigned by aaa-admin for remote authentication

**Syntax:**

|                                    |                       |
|------------------------------------|-----------------------|
| <i>&lt;default-role-policy&gt;</i> | <default-role-policy> |
|------------------------------------|-----------------------|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# aaa user default-role <default-role-policy>
```

# absolute

**absolute window <WORD>**

**Description:** Absolute window configuration mode

**Syntax:**

|             |                            |
|-------------|----------------------------|
| window      | Configure scheduler window |
| <i>WORD</i> | Window name (Max size 31)  |

**Command Mode:** scheduler : Scheduler configuration mode

**Command Path:**

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

## access-encap

**access-encap vlan <NUMBER>**

**Description:** set the access-vlan for the qinq tunnel

**Syntax:**

|          |   |
|----------|---|
| vlan     | Encapsulation Vlan                              |
| <1-4094> | Encapsulation Vlan. Number range from=1 to=4094 |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# dot1q-tunnel <WORD>
(config-tenant-tunnel)#access-encap vlan <NUMBER>
```

## access-group

**access-group** <WORD> <WORD> [action <WORD>] [priority <WORD>] log no-stats

**Description:** Apply an access-list on this subject

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Name of the access-list to apply (Max Size 64) |
| <i>WORD</i> | Directions                                     |
| <i>WORD</i> | (Optional) PermitOrDeny                        |
| <i>WORD</i> | (Optional) priority override                   |
| log         | Log packets hitting the ACL                    |
| no-stats    | Stats collection for the current entry         |

**Command Mode:** subject : Configuration a subject on the contract

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# contract <WORD> [type <type>]
(config-tenant-contract)# subject <WORD>
(config-tenant-contract-subj)# access-group <WORD> <WORD> [action <WORD>] [priority <WORD>]
log no-stats
```

# access-list

**access-list** <WORD>

**Description:** Create access-list

**Syntax:**

|             |                                |
|-------------|--------------------------------|
| <i>WORD</i> | Access-list Name (Max Size 64) |
|-------------|--------------------------------|

**Command Mode:** tenant : Tenant configuration mode

**Command Path:**

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

# account-status

**account-status** <WORD>

**Description:** Set The status of the locally-authenticated user account.

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | status of the locally-authenticated user account |
|-------------|--|

**Command Mode:** username : Create a locally-authenticated user account

**Command Path:**

```
# configure [['terminal', 't']]
(config)# username <WORD>
(config-username)# account-status <WORD>
```



# action

## action merge|replace

**Description:** Snapshot import action merge|replace

**Syntax:**

|         |                                   |
|---------|-----------------------------------|
| merge   | Merge with existing configuration |
| replace | Replace existing configuration    |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# snapshot import <WORD>
(config-import)# action merge|replace
```

# active-flow-timeout

## active-flow-timeout <activeFlowTimeout>

**Description:** Configure Active Flow TimeOut

**Syntax:**

|                          |   |
|--------------------------|---|
| <i>activeFlowTimeout</i> | Configure Active Flow TimeOut. Number range from=60 to=3600 |
|--------------------------|---|

**Command Mode:** flow exporter : Configure NetFlow Exporter Policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# vmware-domain <WORD> [delimiter <WORD>] [access-mode <access-mode>]
(config-vmware)# configure-dvs
(config-vmware-dvs)# flow exporter <WORD>
(config-vmware-dvs-flow-exporter)# active-flow-timeout <activeFlowTimeout>
```

## active-flow-timeout <activeFlowTimeout>

**Description:** Configure Active Flow TimeOut

**Syntax:**

|                          |   |
|--------------------------|---|
| <i>activeFlowTimeout</i> | Configure Active Flow TimeOut. Number range from=60 to=3600 |
|--------------------------|---|

**Command Mode:** flow exporter : Configure NetFlow Exporter Policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# vmware-domain <WORD> [delimiter <WORD>] [access-mode <access-mode>]
(config-vmware)# configure-avs
(config-vmware-avs)# flow exporter <WORD>
(config-None)# active-flow-timeout <activeFlowTimeout>
```

## active-flow-timeout <activeFlowTimeout>

**Description:** Configure Active Flow TimeOut

**Syntax:**

|                          |   |
|--------------------------|---|
| <i>activeFlowTimeout</i> | Configure Active Flow TimeOut. Number range from=60 to=3600 |
|--------------------------|---|

**Command Mode:** flow exporter : Configure NetFlow Exporter Policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# vmware-domain <WORD> [delimiter <WORD>] [access-mode <access-mode>]
(config-vmware)# configure-ave
(config-vmware-ave)# flow exporter <WORD>
```

```
(config-None)# active-flow-timeout <activeFlowTimeout>
```

# address-family

## address-family ipv4|ipv6 unicast

**Description:** Address Family

**Syntax:**

|         |                        |
|---------|------------------------|
| ipv4    | IPv4 address family    |
| ipv6    | IPv6 address family    |
| unicast | Unicast delivery model |

**Command Mode:** vrf : Configure VRF parameters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# vrf context tenant <WORD> vrf <WORD> [l3out <l3out>]
(config-leaf-vrf)# address-family ipv4|ipv6 unicast
```

## address-family ipv4|ipv6 unicast

**Description:** EIGRP Policy Address Family

**Syntax:**

|         |                     |
|---------|---------------------|
| ipv4    | Address Family IPv4 |
| ipv6    | Address Family IPv6 |
| unicast | Unicast             |

**Command Mode:** vrf : Configure VRF information

**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
```

## address-family ipv4|ipv6|l2vpn unicast|evpn

**Description:** Configure an address-family for peer

**Syntax:**

|      |                               |
|------|-------------------------------|
| ipv4 | Configure IPv4 address-family |
| ipv6 | Configure IPv6 address-family |

|         |                                      |
|---------|--------------------------------------|
| l2vpn   | Configure l2vpn address-family       |
| unicast | Configure Unicast sub-address-family |
| evpn    | Configure EVPN sub-address-family    |

**Command Mode:** neighbor : Configure a BGP neighbor

**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
```

### address-family ipv4|ipv6 unicast

**Description:** Configure an address-family

**Syntax:**

|         |                                  |
|---------|----------------------------------|
| ipv4    | Configure IPv4 address-family    |
| ipv6    | Configure IPv6 address-family    |
| unicast | Configure unicast address-family |

**Command Mode:** vrf : Virtual Router Context

**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)# address-family ipv4|ipv6 unicast
```

### address-family ipv4|ipv6 unicast

**Description:** Address Family

**Syntax:**

|         |                        |
|---------|------------------------|
| ipv4    | IPv4 address family    |
| ipv6    | IPv6 address family    |
| unicast | Unicast delivery model |

**Command Mode:** vrf : Configure VRF parameters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# vrf context tenant <WORD> vrf <WORD> [l3out <l3out>]
(config-leaf-vrf)# address-family ipv4|ipv6 unicast
```

### address-family ipv4|ipv6 unicast

**Description:** EIGRP Policy Address Family

**Syntax:**

|         |                     |
|---------|---------------------|
| ipv4    | Address Family IPv4 |
| ipv6    | Address Family IPv6 |
| unicast | Unicast             |

**Command Mode:** vrf : Configure VRF information

**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
```

### address-family ipv4|ipv6|l2vpn unicast|evpn

**Description:** Configure an address-family for peer

**Syntax:**

|         |                                      |
|---------|--------------------------------------|
| ipv4    | Configure IPv4 address-family        |
| ipv6    | Configure IPv6 address-family        |
| l2vpn   | Configure l2vpn address-family       |
| unicast | Configure Unicast sub-address-family |
| evpn    | Configure EVPN sub-address-family    |

**Command Mode:** neighbor : Configure a BGP neighbor

**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
```

**address-family ipv4|ipv6 unicast****Description:** Configure an address-family**Syntax:**

|         |                                  |
|---------|----------------------------------|
| ipv4    | Configure IPv4 address-family    |
| ipv6    | Configure IPv6 address-family    |
| unicast | Configure unicast address-family |

**Command Mode:** vrf : Virtual Router Context**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)# address-family ipv4|ipv6 unicast
```

# address-pool

**address-pool** <ippool> <connection-type>

**Description:** Configure External IP Address Pool

**Syntax:**

|                        |                           |
|------------------------|---------------------------|
| <i>ippool</i>          | ippool                    |
| <i>connection-type</i> | bridge-domain/l3-external |

**Command Mode:** l4l7 resource-pool : Configure L4-L7 Service Resource Pool

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# l4l7 resource-pool <WORD>
(config-resource-pool)# address-pool <ippool> <connection-type>
```

**address-pool** <PoolName> <gateway-address>

**Description:** Configure Address Pool

**Syntax:**

|                        |                  |
|------------------------|------------------|
| <i>PoolName</i>        | Name of the pool |
| <i>gateway-address</i> | gateway-address  |

**Command Mode:** tenant : Tenant configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# address-pool <PoolName> <gateway-address>
```



# address-range

**address-range** <start> <end>

**Description:** Add Unicast Address Range

**Syntax:**

|              |               |
|--------------|---------------|
| <i>start</i> | Start Address |
| <i>end</i>   | End Address   |

**Command Mode:** address-pool : Configure Address Pool

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# address-pool <PoolName> <gateway-address>
(config-tenant-addrinst)# address-range <start> <end>
```

# address

**address** <A.B.C.D> [preferred]

**Description:** Configure the IP address for dns servers

**Syntax:**

|                |  |
|----------------|--|
| <i>A.B.C.D</i> | IP Unicast address in format i.i.i.i             |
| preferred      | (Optional) Configure the address to be preferred |

**Command Mode:** dns : Configure default dns policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# dns
(config-dns)# address <A.B.C.D> [preferred]
```

# admin-state-enable

## admin-state-enable

**Description:** Enable the state of the SSH communication service

**Command Mode:** ssh-service : SSH communication policy group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# comm-policy <WORD>
(config-comm-policy)# ssh-service
(config-ssh-service)# admin-state-enable
```

## admin-state-enable

**Description:** Enable the state of the TELNET communication service

**Command Mode:** telnet : TELNET communication policy group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# comm-policy <WORD>
(config-comm-policy)# telnet
(config-telnet)# admin-state-enable
```

## admin-state-enable

**Description:** Enable the state of the shellinabox communication service

**Command Mode:** shellinabox : SHELLINABOX communication policy group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# comm-policy <WORD>
(config-comm-policy)# shellinabox
(config-shellinabox)# admin-state-enable
```

## admin-state-enable

**Description:** Enable the state of the HTTP communication service

**Command Mode:** http : HTTP communication policy group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# comm-policy <WORD>
(config-comm-policy)# http
(config-http)# admin-state-enable
```

**admin-state-enable**

**Description:** Enable the state of the HTTPS communication service

**Command Mode:** https : HTTPS communication policy group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# comm-policy <WORD>
(config-comm-policy)# https
(config-https)# admin-state-enable
```

# admin

## admin enable

**Description:** Set admin state of syslog group

**Syntax:**

|        |        |
|--------|--------|
| enable | Enable |
|--------|--------|

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

**Command Path:**

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

# advertise-host-routes

## advertise-host-routes

**Description:** Enable advertising host-routes

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

**Command Path:**

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

# advertise-subnet

## advertise-subnet

**Description:** Advertise ip subnet instead of a host mask in the router LSA

**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)# advertise-subnet
```

## advertise-subnet

**Description:** Advertise ip subnet instead of a host mask in the router LSA

**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)# advertise-subnet
```

# aggregate-address

**aggregate-address <IP-PREFIX/LEN> [as-set]**

**Description:** Route summarization

**Syntax:**

|                      |   |
|----------------------|---|
| <i>IP-PREFIX/LEN</i> | Aggregate IPv4 address and mask length                                      |
| as-set               | (Optional) Autonomous system set path information and community information |

**Command Mode:** vrf : Virtual Router Context

**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)# aggregate-address <IP-PREFIX/LEN> [as-set]
```

**aggregate-address <IP-PREFIX/LEN> [as-set]**

**Description:** Route summarization

**Syntax:**

|                      |   |
|----------------------|---|
| <i>IP-PREFIX/LEN</i> | Aggregate IPv4 address and mask length                                      |
| as-set               | (Optional) Autonomous system set path information and community information |

**Command Mode:** vrf : Virtual Router Context

**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)# aggregate-address <IP-PREFIX/LEN> [as-set]
```



# algo

## algo wred|tail-drop

**Description:** Configure the global QOS policies

**Syntax:**

|           |                              |
|-----------|------------------------------|
| wred      | Set parameters for wred      |
| tail-drop | Set parameters for tail-drop |

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

**Command Path:**

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

# allow-credential

## allow-credential

**Description:** Enable HTTP Access-Control-Allow-Credentials header

**Command Mode:** http : HTTP communication policy group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# comm-policy <WORD>
(config-comm-policy)# http
(config-http)# allow-credential
```

## allow-credential

**Description:** Enable HTTPS Access-Control-Allow-Credentials header

**Command Mode:** https : HTTPS communication policy group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# comm-policy <WORD>
(config-comm-policy)# https
(config-https)# allow-credential
```

# allow-origin

## allow-origin <WORD>

**Description:** The URL to return in the Access-Control-Allow-Origin HTTP header

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | The URL to return in the Access-Control-Allow-Origin HTTP header (Max Size 256) |
|-------------|---|

**Command Mode:** http : HTTP communication policy group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# comm-policy <WORD>
(config-comm-policy)# http
(config-http)# allow-origin <WORD>
```

## allow-origin <WORD>

**Description:** The URL to return in the Access-Control-Allow-Origin HTTPS header

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | The URL to return in the Access-Control-Allow-Origin HTTPS header (Max Size 256) |
|-------------|--|

**Command Mode:** https : HTTPS communication policy group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# comm-policy <WORD>
(config-comm-policy)# https
(config-https)# allow-origin <WORD>
```

# allow-promiscuous

## allow-promiscuous enable

**Description:** Enable/disable promiscuous mode on trunk

**Syntax:**

|        |        |
|--------|--------|
| enable | 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)# allow-promiscuous enable
```

# allow-self-as

## allow-self-as

**Description:** Accept as-path with my AS present in it

**Command Mode:** neighbor : Configure a BGP neighbor

### 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] [13out
<WORD>]
(config-leaf-bgp-vrf-neighbor)# allow-self-as
```

## allow-self-as

**Description:** Accept as-path with my AS present in it

**Command Mode:** neighbor : Configure a BGP neighbor

### 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] [13out
<WORD>]
(config-leaf-bgp-vrf-neighbor)# allow-self-as
```

# allow-writes

## allow-writes

**Description:** Allow writes for the RBAC rule

**Command Mode:** rbac rule : Create RBAC rule, security domain users can read subtree starting at specific object

### Command Path:

```
# configure [['terminal', 't']]
(config)# rbac rule <DN> <WORD>
(config-rule)# allow-writes
```

# allowed-self-as-count

## allowed-self-as-count <NUMBER>

**Description:** The number of occurrences of a local access service network

**Syntax:**

|        |   |
|--------|---|
| <1-10> | Number of occurrences of AS number, default is 3. Number range from=1 to=10 |
|--------|---|

**Command Mode:** neighbor : Configure a BGP neighbor

**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)# allowed-self-as-count <NUMBER>
```

## allowed-self-as-count <NUMBER>

**Description:** The number of occurrences of a local access service network

**Syntax:**

|        |   |
|--------|---|
| <1-10> | Number of occurrences of AS number, default is 3. Number range from=1 to=10 |
|--------|---|

**Command Mode:** neighbor : Configure a BGP neighbor

**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)# allowed-self-as-count <NUMBER>
```

# analytics

## analytics cluster <WORD>

**Description:** Configure external analytics reachability information

**Syntax:**

|             |                        |
|-------------|------------------------|
| cluster     | Analytics cluster name |
| <i>WORD</i> | Analytics cluster name |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# analytics cluster <WORD>
```



# anycast

## anycast enable

**Description:** Configure an anycast feature on a Redirection policy, example: anycast enable

**Syntax:**

|        |  |
|--------|--|
| enable | Redirecion Policy for anycast feature, example: anycast enable |
|--------|--|

**Command Mode:** svcredirect-pol : Configure L4L7 service redirection policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# svcredirect-pol <WORD>
(svcredirect-pol)# anycast enable
```

# application

## application <WORD>

**Description:** application configuration mode

**Syntax:**

|             |                                |
|-------------|--------------------------------|
| <i>WORD</i> | Application name (Max Size 64) |
|-------------|--------------------------------|

**Command Mode:** tenant : Tenant configuration mode

**Command Path:**

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

## application <WORD>

**Description:** application configuration mode

**Syntax:**

|             |                                |
|-------------|--------------------------------|
| <i>WORD</i> | Application name (Max Size 64) |
|-------------|--------------------------------|

**Command Mode:** dnssvrgrp : dnssvrgrp configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# dnssvrgrp <WORD>
(config-tenant-dnssvrgrp)# application <WORD>
```

## area default-cost

**area <A.B.C.D|NUMBER> default-cost <0-16777215>**

**Description:** Set OSPF default area cost

**Syntax:**

|                  |              |
|------------------|--------------|
| <A.B.C.D NUMBER> | OSPF area ID |
| <0-16777215>     | Cost value   |

**Command Mode:** vrf : Associate Router OSPF Policy with Tenant/VRF

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# router ospf default|multipod-internal
(config-leaf-ospf)# vrf member tenant <WORD> vrf <WORD>
(config-leaf-ospf-vrf)# area <A.B.C.D|NUMBER> default-cost <0-16777215>
```

**area <A.B.C.D|NUMBER> default-cost <0-16777215>**

**Description:** Set OSPF default area cost

**Syntax:**

|                  |              |
|------------------|--------------|
| <A.B.C.D NUMBER> | OSPF area ID |
| <0-16777215>     | Cost value   |

**Command Mode:** vrf : Associate Router OSPF Policy with Tenant/VRF

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# router ospf default|multipod-internal
(config-leaf-ospf)# vrf member tenant <WORD> vrf <WORD>
(config-leaf-ospf-vrf)# area <A.B.C.D|NUMBER> default-cost <0-16777215>
```

# area interpod

## area <A.B.C.D|NUMBER> interpod peering

**Description:** InterPod Peering

**Syntax:**

|                  |                  |
|------------------|------------------|
| <A.B.C.D NUMBER> | OSPF area ID     |
| peering          | InterPod Peering |

**Command Mode:** vrf : Associate Router OSPF Policy with Tenant/VRF

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# router ospf default|multipod-internal
(config-leaf-ospf)# vrf member tenant <WORD> vrf <WORD>
(config-leaf-ospf-vrf)# area <A.B.C.D|NUMBER> interpod peering
```

## area <A.B.C.D|NUMBER> interpod peering

**Description:** InterPod Peering

**Syntax:**

|                  |                  |
|------------------|------------------|
| <A.B.C.D NUMBER> | OSPF area ID     |
| peering          | InterPod Peering |

**Command Mode:** vrf : Associate Router OSPF Policy with Tenant/VRF

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# router ospf default|multipod-internal
(config-leaf-ospf)# vrf member tenant <WORD> vrf <WORD>
(config-leaf-ospf-vrf)# area <A.B.C.D|NUMBER> interpod peering
```

# area l3out

**area <A.B.C.D|NUMBER> l3out <l3out name>**

**Description:** Enable OSPF in the L3Out

**Syntax:**

|                  |  |
|------------------|--|
| <A.B.C.D NUMBER> | OSPF area ID                             |
| <l3out name>     | Configure ASN on an API configured L3Out |

**Command Mode:** vrf : Associate Router OSPF Policy with Tenant/VRF

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# router ospf default|multipod-internal
(config-leaf-ospf)# vrf member tenant <WORD> vrf <WORD>
(config-leaf-ospf-vrf)# area <A.B.C.D|NUMBER> l3out <l3out name>
```

**area <A.B.C.D|NUMBER> l3out <l3out name>**

**Description:** Enable OSPF in the L3Out

**Syntax:**

|                  |  |
|------------------|--|
| <A.B.C.D NUMBER> | OSPF area ID                             |
| <l3out name>     | Configure ASN on an API configured L3Out |

**Command Mode:** vrf : Associate Router OSPF Policy with Tenant/VRF

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# router ospf default|multipod-internal
(config-leaf-ospf)# vrf member tenant <WORD> vrf <WORD>
(config-leaf-ospf-vrf)# area <A.B.C.D|NUMBER> l3out <l3out name>
```

# area loopback

**area <A.B.C.D|NUMBER> loopback <Loopback Ip Address>**

**Description:** Configure OSPF on Loopback

**Syntax:**

|                       |              |
|-----------------------|--------------|
| <A.B.C.D NUMBER>      | OSPF area ID |
| <Loopback Ip Address> | Loopback Ip  |

**Command Mode:** vrf : Associate Router OSPF Policy with Tenant/VRF

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# router ospf default|multipod-internal
(config-leaf-ospf)# vrf member tenant <WORD> vrf <WORD>
(config-leaf-ospf-vrf)# area <A.B.C.D|NUMBER> loopback <Loopback Ip Address>
```

**area <A.B.C.D|NUMBER> loopback <Loopback Ip Address>**

**Description:** Configure OSPF on Loopback

**Syntax:**

|                       |              |
|-----------------------|--------------|
| <A.B.C.D NUMBER>      | OSPF area ID |
| <Loopback Ip Address> | Loopback Ip  |

**Command Mode:** vrf : Associate Router OSPF Policy with Tenant/VRF

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# router ospf default|multipod-internal
(config-leaf-ospf)# vrf member tenant <WORD> vrf <WORD>
(config-leaf-ospf-vrf)# area <A.B.C.D|NUMBER> loopback <Loopback Ip Address>
```

## area nssa

**area <A.B.C.D|NUMBER> nssa**

**Description:** Configure area as nssa

**Syntax:**

|                  |              |
|------------------|--------------|
| <A.B.C.D NUMBER> | OSPF area ID |
|------------------|--------------|

**Command Mode:** vrf : Associate Router OSPF Policy with Tenant/VRF

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# router ospf default|multipod-internal
(config-leaf-ospf)# vrf member tenant <WORD> vrf <WORD>
(config-leaf-ospf-vrf)# area <A.B.C.D|NUMBER> nssa
```

**area <A.B.C.D|NUMBER> nssa**

**Description:** Configure area as nssa

**Syntax:**

|                  |              |
|------------------|--------------|
| <A.B.C.D NUMBER> | OSPF area ID |
|------------------|--------------|

**Command Mode:** vrf : Associate Router OSPF Policy with Tenant/VRF

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# router ospf default|multipod-internal
(config-leaf-ospf)# vrf member tenant <WORD> vrf <WORD>
(config-leaf-ospf-vrf)# area <A.B.C.D|NUMBER> nssa
```

## area nssa default-information-originate

**area <A.B.C.D|NUMBER> nssa default-information-originate [no-redistribute]**

**Description:** Originate a default route

**Syntax:**

|                  |  |
|------------------|--|
| <A.B.C.D NUMBER> | OSPF area ID                           |
| no-redistribute  | (Optional) No Redistribute area option |

**Command Mode:** vrf : Associate Router OSPF Policy with Tenant/VRF

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# router ospf default|multipod-internal
(config-leaf-ospf)# vrf member tenant <WORD> vrf <WORD>
(config-leaf-ospf-vrf)# area <A.B.C.D|NUMBER> nssa default-information-originate
[no-redistribute]
```

**area <A.B.C.D|NUMBER> nssa default-information-originate [no-redistribute]**

**Description:** Originate a default route

**Syntax:**

|                  |  |
|------------------|--|
| <A.B.C.D NUMBER> | OSPF area ID                           |
| no-redistribute  | (Optional) No Redistribute area option |

**Command Mode:** vrf : Associate Router OSPF Policy with Tenant/VRF

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# router ospf default|multipod-internal
(config-leaf-ospf)# vrf member tenant <WORD> vrf <WORD>
(config-leaf-ospf-vrf)# area <A.B.C.D|NUMBER> nssa default-information-originate
[no-redistribute]
```



## area nssa no-redistribute

**area <A.B.C.D|NUMBER> nssa no-redistribute [default-information-originate]**

**Description:** Configure area as no-redistribute

**Syntax:**

|                               |                                      |
|-------------------------------|--------------------------------------|
| <A.B.C.D NUMBER>              | OSPF area ID                         |
| default-information-originate | (Optional) Originate a default route |

**Command Mode:** vrf : Associate Router OSPF Policy with Tenant/VRF

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# router ospf default|multipod-internal
(config-leaf-ospf)# vrf member tenant <WORD> vrf <WORD>
(config-leaf-ospf-vrf)# area <A.B.C.D|NUMBER> nssa no-redistribute
[default-information-originate]
```

**area <A.B.C.D|NUMBER> nssa no-redistribute [default-information-originate]**

**Description:** Configure area as no-redistribute

**Syntax:**

|                               |                                      |
|-------------------------------|--------------------------------------|
| <A.B.C.D NUMBER>              | OSPF area ID                         |
| default-information-originate | (Optional) Originate a default route |

**Command Mode:** vrf : Associate Router OSPF Policy with Tenant/VRF

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# router ospf default|multipod-internal
(config-leaf-ospf)# vrf member tenant <WORD> vrf <WORD>
(config-leaf-ospf-vrf)# area <A.B.C.D|NUMBER> nssa no-redistribute
[default-information-originate]
```

# area nssa translate

**area <A.B.C.D|NUMBER> nssa translate type7 suppress-fa**

**Description:** Translate LSAs

**Syntax:**

|                  |  |
|------------------|--|
| <A.B.C.D NUMBER> | OSPF area ID                                   |
| type7            | From Type 7 to Type 5                          |
| suppress-fa      | Suppress forwarding address in translated LSAs |

**Command Mode:** vrf : Associate Router OSPF Policy with Tenant/VRF

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# router ospf default|multipod-internal
(config-leaf-ospf)# vrf member tenant <WORD> vrf <WORD>
(config-leaf-ospf-vrf)# area <A.B.C.D|NUMBER> nssa translate type7 suppress-fa
```

**area <A.B.C.D|NUMBER> nssa translate type7 suppress-fa**

**Description:** Translate LSAs

**Syntax:**

|                  |  |
|------------------|--|
| <A.B.C.D NUMBER> | OSPF area ID                                   |
| type7            | From Type 7 to Type 5                          |
| suppress-fa      | Suppress forwarding address in translated LSAs |

**Command Mode:** vrf : Associate Router OSPF Policy with Tenant/VRF

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# router ospf default|multipod-internal
(config-leaf-ospf)# vrf member tenant <WORD> vrf <WORD>
(config-leaf-ospf-vrf)# area <A.B.C.D|NUMBER> nssa translate type7 suppress-fa
```

# area range

**area** <A.B.C.D|NUMBER> range <IP-PREFIX/LENGTH> [cost <cost>]

**Description:** Range

**Syntax:**

|                  |                       |
|------------------|-----------------------|
| <A.B.C.D NUMBER> | OSPF area ID          |
| IP-PREFIX/LENGTH | Summarized IP         |
| cost             | (Optional) Route cost |

**Command Mode:** vrf : Associate Router OSPF Policy with Tenant/VRF

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# router ospf default|multipod-internal
(config-leaf-ospf)# vrf member tenant <WORD> vrf <WORD>
(config-leaf-ospf-vrf)# area <A.B.C.D|NUMBER> range <IP-PREFIX/LENGTH> [cost <cost>]
```

**area** <A.B.C.D|NUMBER> range <IP-PREFIX/LENGTH> [cost <cost>]

**Description:** Range

**Syntax:**

|                  |                       |
|------------------|-----------------------|
| <A.B.C.D NUMBER> | OSPF area ID          |
| IP-PREFIX/LENGTH | Summarized IP         |
| cost             | (Optional) Route cost |

**Command Mode:** vrf : Associate Router OSPF Policy with Tenant/VRF

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# router ospf default|multipod-internal
(config-leaf-ospf)# vrf member tenant <WORD> vrf <WORD>
(config-leaf-ospf-vrf)# area <A.B.C.D|NUMBER> range <IP-PREFIX/LENGTH> [cost <cost>]
```

## area route-map

**area <A.B.C.D|NUMBER> route-map <WORD> out|in**

**Description:** Set Route Map

**Syntax:**

|                  |                                   |
|------------------|-----------------------------------|
| <A.B.C.D NUMBER> | OSPF area ID                      |
| WORD             | Route Map Name (Max Size 63)      |
| out              | Apply policy to outgoing routes   |
| in               | Apply Policies for Incoming route |

**Command Mode:** vrf : Associate Router OSPF Policy with Tenant/VRF

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# router ospf default|multipod-internal
(config-leaf-ospf)# vrf member tenant <WORD> vrf <WORD>
(config-leaf-ospf-vrf)# area <A.B.C.D|NUMBER> route-map <WORD> out|in
```

**area <A.B.C.D|NUMBER> route-map <WORD> out|in**

**Description:** Set Route Map

**Syntax:**

|                  |                                   |
|------------------|-----------------------------------|
| <A.B.C.D NUMBER> | OSPF area ID                      |
| WORD             | Route Map Name (Max Size 63)      |
| out              | Apply policy to outgoing routes   |
| in               | Apply Policies for Incoming route |

**Command Mode:** vrf : Associate Router OSPF Policy with Tenant/VRF

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# router ospf default|multipod-internal
(config-leaf-ospf)# vrf member tenant <WORD> vrf <WORD>
(config-leaf-ospf-vrf)# area <A.B.C.D|NUMBER> route-map <WORD> out|in
```

# area stub

**area <A.B.C.D|NUMBER> stub**

**Description:** Configure area as a stub

**Syntax:**

|                  |              |
|------------------|--------------|
| <A.B.C.D NUMBER> | OSPF area ID |
|------------------|--------------|

**Command Mode:** vrf : Associate Router OSPF Policy with Tenant/VRF

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# router ospf default|multipod-internal
(config-leaf-ospf)# vrf member tenant <WORD> vrf <WORD>
(config-leaf-ospf-vrf)# area <A.B.C.D|NUMBER> stub
```

**area <A.B.C.D|NUMBER> stub**

**Description:** Configure area as a stub

**Syntax:**

|                  |              |
|------------------|--------------|
| <A.B.C.D NUMBER> | OSPF area ID |
|------------------|--------------|

**Command Mode:** vrf : Associate Router OSPF Policy with Tenant/VRF

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# router ospf default|multipod-internal
(config-leaf-ospf)# vrf member tenant <WORD> vrf <WORD>
(config-leaf-ospf-vrf)# area <A.B.C.D|NUMBER> stub
```

# arp-learning

## arp-learning enabled|disabled

**Description:** Enable/Disable arp learning on AVS/AVE Domain

**Syntax:**

|          |                      |
|----------|----------------------|
| enabled  | Enable arp learning  |
| disabled | Disable arp learning |

**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)# arp-learning enabled|disabled
```

## arp-learning enabled|disabled

**Description:** Enable/Disable arp learning on AVS/AVE Domain

**Syntax:**

|          |                      |
|----------|----------------------|
| enabled  | Enable arp learning  |
| disabled | Disable arp learning |

**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)# arp-learning enabled|disabled
```

# arp

## arp

**Description:** Config trust ARP in trust control policy

**Command Mode:** trust-control : Configuration for trust control policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# first-hop-security
(config-tenant-fhs)# trust-control <WORD>
(config-tenant-fhs-trustctrl)# arp
```

# arp flooding

## arp flooding

**Description:** Enable ARP flooding

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

**Command Path:**

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



# as-override

## as-override

**Description:** AS-override attribute to this neighbor

**Command Mode:** neighbor : Configure a BGP neighbor

**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] [13out
<WORD>]
(config-leaf-bgp-vrf-neighbor)# as-override
```

## as-override

**Description:** AS-override attribute to this neighbor

**Command Mode:** neighbor : Configure a BGP neighbor

**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] [13out
<WORD>]
(config-leaf-bgp-vrf-neighbor)# as-override
```

## asn

**asn <NUMBER>****Description:** Configure BGP Autonomous System number**Syntax:**

|                |   |
|----------------|---|
| <1-4294967295> | Number that uniquely identifies an autonomous system. Number range from=1 to=4294967295 |
|----------------|---|

**Command Mode:** bgp-fabric : Border Gateway Protocol (BGP)**Command Path:**

```
# configure [['terminal', 't']]
(config)# bgp-fabric
(config-bgp-fabric)# asn <NUMBER>
```

**asn <NUMBER>****Description:** Configure BGP Autonomous System number**Syntax:**

|                |   |
|----------------|---|
| <1-4294967295> | Number that uniquely identifies an autonomous system. Number range from=1 to=4294967295 |
|----------------|---|

**Command Mode:** bgp : Border Gateway Protocol (BGP)**Command Path:**

```
# configure [['terminal', 't']]
(config)# pod <NUMBER>
(config-pod)# bgp fabric
(config-pod-bgp)# asn <NUMBER>
```

# attach-ave-ng

**attach-ave-ng <OpflexDevid>**

**Description:** Execute remote cli on AVE NG Device

**Syntax:**

|                            |                           |
|----------------------------|---------------------------|
| <i>&lt;OpflexDevid&gt;</i> | Specify the AVE NG device |
|----------------------------|---------------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# attach-ave-ng <OpflexDevid>
```

# attach-ave

**attach-ave** <OpflexDevid>

**Description:** Execute remote cli on AVE Device

**Syntax:**

|               |                        |
|---------------|------------------------|
| <OpflexDevid> | Specify the AVE device |
|---------------|------------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# attach-ave <OpflexDevid>
```

# attach-avs

**attach-avs** <OpflexDevid>

**Description:** Execute remote cli on an Opflex Device

**Syntax:**

|               |                           |
|---------------|---------------------------|
| <OpflexDevid> | Specify the OpFlex device |
|---------------|---------------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# attach-avs <OpflexDevid>
```

# attribute-logical-expression

**attribute-logical-expression** <logical-expression>

**Description:** Configure a logical expression as criteria

**Syntax:**

|                                   |  |
|-----------------------------------|--|
| <i>&lt;logical-expression&gt;</i> | Enter a logical expression in the format: '<attributeType> <operator> <attributeValue>' For custom-label, enter logical expression in the format: 'custom <labelName> <operator> <labelValue>' For tags, enter logical expression in the format: 'tag <operator> <categoryName> <tagName>' - attributeType can take one of these values: vm-name, guest-os, hypervisor-id, vm-id, vnic, domain, datacenter, ip, mac, vm-folder - operator can take one of these values: equals, contains, startsWith, endsWith - operator should be 'equals' when attributeType is ip or mac - attributeValue, labelName, labelValue, categoryName and tagName accept a string - attributeValue can be 'use-epg-subnet' only when attributeType is ip - A logical expression can be formed by combining any of the above using 'AND'/'and'/'OR'/'or' - If any attribute value contains spaces or parenthesis, enclose it in backslashes ('\'). e.g.: attribute-logical-expression 'hypervisor-id equals host-123 OR tag contains TCAT_1 TTAG_1 AND (guest-os equals \Ubuntu Linux (64-bit)\ and domain contains fex)' e.g.: attribute-logical-expression 'ip equals 10.1.1.10 or ip equals use-epg-subnet' |
|-----------------------------------|--|

**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)# attribute-logical-expression <logical-expression>
```

# attribute

**attribute** <WORD>

**Description:** An LDAP endpoint attribute to be used as the CiscoAVPair

**Syntax:**

|        |                                       |
|--------|---------------------------------------|
| <WORD> | LDAP endpoint attribute (Max Size 63) |
|--------|---------------------------------------|

**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)# attribute <WORD>
```

# auth-choice

**auth-choice** <authChoice>

**Description:** Set the LDAP Server authorization choice

**Syntax:**

|                   |            |
|-------------------|------------|
| <i>authChoice</i> | authChoice |
|-------------------|------------|

**Command Mode:** aaa group server ldap : LDAP server group name.

**Command Path:**

```
# configure [['terminal', 't']]
(config)# aaa group server ldap <WORD>
(config-ldap)# auth-choice <authChoice>
```



# authenticate

## authenticate

**Description:** Configure authentication for the default ntp policy

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

**Command Path:**

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

## authenticate

**Description:** Configure authentication for the default ntp policy

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

**Command Path:**

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

# authentication-key-timeout

## authentication-key-timeout <NUMBER>

**Description:** Configure the authentication key timeout

**Syntax:**

|           |  |
|-----------|--|
| <0-32767> | Hold interval in seconds. Number range from=0 to=32767 |
|-----------|--|

**Command Mode:** template hsrp group-policy : Configure HSRP Group policy templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template hsrp group-policy <WORD> tenant <WORD>
(config-template-hsrp-group-pol)# authentication-key-timeout <NUMBER>
```

## authentication-key-timeout <NUMBER>

**Description:** Configure the authentication key timeout

**Syntax:**

|           |  |
|-----------|--|
| <0-32767> | Hold interval in seconds. Number range from=0 to=32767 |
|-----------|--|

**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)# authentication-key-timeout <NUMBER>
```

## authentication-key-timeout <NUMBER>

**Description:** Configure the authentication key timeout

**Syntax:**

|           |  |
|-----------|--|
| <0-32767> | Hold interval in seconds. Number range from=0 to=32767 |
|-----------|--|

**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)# authentication-key-timeout <NUMBER>
```

### authentication-key-timeout <NUMBER>

**Description:** Configure the authentication key timeout

**Syntax:**

|           |  |
|-----------|--|
| <0-32767> | Hold interval in seconds. Number range from=0 to=32767 |
|-----------|--|

**Command Mode:** template hsrp group-policy : Configure HSRP Group policy templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# template hsrp group-policy <WORD> tenant <WORD>
(config-template-hsrp-group-pol)# authentication-key-timeout <NUMBER>
```

### authentication-key-timeout <NUMBER>

**Description:** Configure the authentication key timeout

**Syntax:**

|           |  |
|-----------|--|
| <0-32767> | Hold interval in seconds. Number range from=0 to=32767 |
|-----------|--|

**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)# authentication-key-timeout <NUMBER>
```

### authentication-key-timeout <NUMBER>

**Description:** Configure the authentication key timeout

**Syntax:**

|           |  |
|-----------|--|
| <0-32767> | Hold interval in seconds. Number range from=0 to=32767 |
|-----------|--|

**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)# authentication-key-timeout <NUMBER>
```

# authentication-key

## authentication-key <id> sha1|md5 <key>

**Description:** Configure ntp authentication keys for the default ntp policy

**Syntax:**

|            |   |
|------------|---|
| <i>id</i>  | Id for the authentication key. Number range from=1 to=65535 |
| sha1       | use-hmac-sha1-algorithm-for-authentication                  |
| md5        | use-hmac-md5-algorithm-for-authentication                   |
| <i>key</i> | Configure the authentication key (Max Size 40)              |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# pod <NUMBER>
(config-pod)# ntp
(config-ntp)# authentication-key <id> sha1|md5 <key>
```

## authentication-key <id> sha1|md5 <key>

**Description:** Configure ntp authentication keys for the default ntp policy

**Syntax:**

|            |   |
|------------|---|
| <i>id</i>  | Id for the authentication key. Number range from=1 to=65535 |
| sha1       | use-hmac-sha1-algorithm-for-authentication                  |
| md5        | use-hmac-md5-algorithm-for-authentication                   |
| <i>key</i> | Configure the authentication key (Max Size 40)              |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template ntp-fabric <WORD>
(config-template-ntp-fabric)# authentication-key <id> sha1|md5 <key>
```

## authentication-key <LINE>

**Description:** Configure the authentication key

**Syntax:**

|             |                    |
|-------------|--------------------|
| <i>LINE</i> | authentication key |
|-------------|--------------------|

**Command Mode:** template hsrp group-policy : Configure HSRP Group policy templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template hsrp group-policy <WORD> tenant <WORD>
(config-template-hsrp-group-pol)# authentication-key <LINE>
```

### authentication-key <LINE>

**Description:** Configure the authentication key

**Syntax:**

|             |                    |
|-------------|--------------------|
| <i>LINE</i> | authentication key |
|-------------|--------------------|

**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)# authentication-key <LINE>
```

### authentication-key <LINE>

**Description:** Configure the authentication key

**Syntax:**

|             |                    |
|-------------|--------------------|
| <i>LINE</i> | authentication key |
|-------------|--------------------|

**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)# authentication-key <LINE>
```

### authentication-key <LINE>

**Description:** Configure the authentication key

**Syntax:**

|             |                    |
|-------------|--------------------|
| <i>LINE</i> | authentication key |
|-------------|--------------------|

**Command Mode:** template hsrp group-policy : Configure HSRP Group policy templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# template hsrp group-policy <WORD> tenant <WORD>
(config-template-hsrp-group-pol)# authentication-key <LINE>
```

**authentication-key <LINE>**

**Description:** Configure the authentication key

**Syntax:**

|             |                    |
|-------------|--------------------|
| <i>LINE</i> | authentication key |
|-------------|--------------------|

**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)# authentication-key <LINE>
```

**authentication-key <LINE>**

**Description:** Configure the authentication key

**Syntax:**

|             |                    |
|-------------|--------------------|
| <i>LINE</i> | authentication key |
|-------------|--------------------|

**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)# authentication-key <LINE>
```

# authentication

## authentication type compatible|strict

**Description:** Configure COOP authentication type

**Syntax:**

|            |                                    |
|------------|------------------------------------|
| type       | Configure COOP authentication type |
| compatible | Compatible type                    |
| strict     | Strict type                        |

**Command Mode:** coop-fabric : Council Of Oracles Protocol (COOP)

**Command Path:**

```
# configure [['terminal', 't']]
(config)# coop-fabric
(config-coop-fabric)# authentication type compatible|strict
```

## authentication type compatible|strict

**Description:** Configure COOP authentication type

**Syntax:**

|            |                                    |
|------------|------------------------------------|
| type       | Configure COOP authentication type |
| compatible | Compatible type                    |
| strict     | Strict type                        |

**Command Mode:** coop : COOP protocol

**Command Path:**

```
# configure [['terminal', 't']]
(config)# pod <NUMBER>
(config-pod)# coop fabric
(config-pod-coop)# authentication type compatible|strict
```

## authentication simple|md5

**Description:** Authentication

**Syntax:**

|        |                           |
|--------|---------------------------|
| simple | Plain text authentication |
| md5    | Use MD5 authentication    |

**Command Mode:** template hsrp group-policy : Configure HSRP Group policy templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template hsrp group-policy <WORD> tenant <WORD>
(config-template-hsrp-group-pol)# authentication simple|md5
```

### authentication simple|md5

**Description:** Authentication

**Syntax:**

|        |                           |
|--------|---------------------------|
| simple | Plain text authentication |
| md5    | Use MD5 authentication    |

**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)# authentication simple|md5
```

### authentication simple|md5

**Description:** Authentication

**Syntax:**

|        |                           |
|--------|---------------------------|
| simple | Plain text authentication |
| md5    | Use MD5 authentication    |

**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)# authentication simple|md5
```

### authentication simple|md5

**Description:** Authentication

**Syntax:**



|        |                           |
|--------|---------------------------|
| simple | Plain text authentication |
| md5    | Use MD5 authentication    |

**Command Mode:** template hsrp group-policy : Configure HSRP Group policy templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# template hsrp group-policy <WORD> tenant <WORD>
(config-template-hsrp-group-pol)# authentication simple|md5
```

**authentication simple|md5**

**Description:** Authentication

**Syntax:**

|        |                           |
|--------|---------------------------|
| simple | Plain text authentication |
| md5    | Use MD5 authentication    |

**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)# authentication simple|md5
```

**authentication simple|md5**

**Description:** Authentication

**Syntax:**

|        |                           |
|--------|---------------------------|
| simple | Plain text authentication |
| md5    | Use MD5 authentication    |

**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)# authentication simple|md5
```

# authsvr

**authsvr** <WORD> <WORD> <svrMgmt> <WORD>

**Description:** Configure an auth server

**Syntax:**

|                |                             |
|----------------|-----------------------------|
| <i>WORD</i>    | Server Name (Max Size 64)   |
| <i>WORD</i>    | Server FQDN (Max Size None) |
| <i>svrMgmt</i> | Mgmt EPg                    |
| <i>WORD</i>    | KeyRing name (Max Size 64)  |

**Command Mode:** authsvrgrp : authsvrgrp configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# authsvrgrp <WORD>
(config-tenant-authsvrgrp)# authsvr <WORD> <WORD> <svrMgmt> <WORD>
```

# authsvrgrp

**authsvrgrp** <WORD>

**Description:** authsvrgrp configuration mode

**Syntax:**

|             |                                   |
|-------------|-----------------------------------|
| <i>WORD</i> | Server group name (Max Size None) |
|-------------|-----------------------------------|

**Command Mode:** tenant : Tenant configuration mode

**Command Path:**

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

## auto-cost

### auto-cost reference-bandwidth <NUMBER>

**Description:** Set OSPF Policy Bandwidth Reference

**Syntax:**

|                     |   |
|---------------------|---|
| reference-bandwidth | OSPF Policy Bandwidth Reference                                   |
| <1-4000000>         | Bandwidth Reference Value in Mbps. Number range from=1 to=4000000 |

**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)# auto-cost reference-bandwidth <NUMBER>
```

### auto-cost reference-bandwidth <NUMBER>

**Description:** Set OSPF Policy Bandwidth Reference

**Syntax:**

|                     |   |
|---------------------|---|
| reference-bandwidth | OSPF Policy Bandwidth Reference                                   |
| <1-4000000>         | Bandwidth Reference Value in Mbps. Number range from=1 to=4000000 |

**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)# auto-cost reference-bandwidth <NUMBER>
```

# auto-route-target

## auto-route-target

**Description:** Configure Route Target

**Command Mode:** neighbor : Configure a BGP neighbor

**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] [13out
<WORD>]
(config-leaf-bgp-vrf-neighbor)# auto-route-target
```

## auto-route-target

**Description:** Configure Route Target

**Command Mode:** neighbor : Configure a BGP neighbor

**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] [13out
<WORD>]
(config-leaf-bgp-vrf-neighbor)# auto-route-target
```

# autonomous-system

**autonomous-system <NUMBER> [l3out <l3out>]**

**Description:** Autonomous System Configuration for EIGRP

**Syntax:**

|              |  |
|--------------|--|
| <1-65535>    | The autonomous system number. Number range from=1 to=65535 |
| <i>l3out</i> | (Optional) Configure ASN on an API configured L3Out        |

**Command Mode:** vrf : Configure VRF information

**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)# autonomous-system <NUMBER> [l3out <l3out>]
```

**autonomous-system <NUMBER> [l3out <l3out>]**

**Description:** Autonomous System Configuration for EIGRP

**Syntax:**

|              |  |
|--------------|--|
| <1-65535>    | The autonomous system number. Number range from=1 to=65535 |
| <i>l3out</i> | (Optional) Configure ASN on an API configured L3Out        |

**Command Mode:** vrf : Configure VRF information

**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)# autonomous-system <NUMBER> [l3out <l3out>]
```

# autostate

## autostate

**Description:** Enable or disable autostate for interface-vlan

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

**Command Path:**

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

## autostate

**Description:** Enable or disable autostate for interface-vlan

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

**Command Path:**

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

# avail-monitor

## avail-monitor enable

**Description:** Enable AVE availability monitoring

### Syntax:

|        |        |
|--------|--------|
| enable | enable |
|--------|--------|

**Command Mode:** vmware-domain : Create a VMM VMWare Domain

### Command Path:

```
# configure [['terminal', 't']]
(config)# vmware-domain <WORD> [delimiter <WORD>] [access-mode <access-mode>]
(config-vmware)# avail-monitor enable
```



# ave-hbinterval

**ave-hbinterval** <WORD>

**Description:** Configure AVE HeartBeat Interval (seconds)

**Syntax:**

|             |                                  |
|-------------|----------------------------------|
| <i>WORD</i> | AVE HeartBeat Interval (seconds) |
|-------------|----------------------------------|

**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)# ave-hbinterval <WORD>
```

# ave-timeout

**ave-timeout** <WORD>

**Description:** Configure AVE Timeout (seconds)

**Syntax:**

|             |                       |
|-------------|-----------------------|
| <i>WORD</i> | AVE Timeout (seconds) |
|-------------|-----------------------|

**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)# ave-timeout <WORD>
```



## B Commands

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# bandwidth

**bandwidth** <NUMBER>

**Description:** Set the desired bandwidth to police to

**Syntax:**

|         |  |
|---------|--|
| <0-100> | Bandwidth percentage guaranteed as %. Number range from=0 to=100 |
|---------|--|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# qos parameters <WORD>
(config-qos)# bandwidth <NUMBER>
```

# basedn

**basedn** <WORD>

**Description:** The LDAP base DN for user lookup in the LDAP directory tree

**Syntax:**

|        |   |
|--------|---|
| <WORD> | user lookup in LDAP directory tree (Max Size 127) |
|--------|---|

**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)# basedn <WORD>
```

# bash

**bash**

**Description:** Bash shell for unix commands

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# bash
```

# bd-enf-exp-ip

**bd-enf-exp-ip add <ip>**

**Description:** Enable Enforced BD Flag

**Syntax:**

|           |                         |
|-----------|-------------------------|
| add       | BD Enforce Exception ip |
| <i>ip</i> | ip                      |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# bd-enf-exp-ip add <ip>
```

# bd-enforce

## bd-enforce enable

**Description:** Enable Enforced BD Flag

**Syntax:**

|        |                     |
|--------|---------------------|
| enable | Enable BD Enforcing |
|--------|---------------------|

**Command Mode:** vrf : Configuration for vrf

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# vrf context <WORD>
(config-tenant-vrf)# bd-enforce enable
```



# bfd

## **bfd enable**

**Description:** Enable Bidirectional Forwarding Detection

**Syntax:**

|        |            |
|--------|------------|
| enable | Enable BFD |
|--------|------------|

**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)# bfd enable
```

## **bfd enable**

**Description:** Enable Bidirectional Forwarding Detection

**Syntax:**

|        |            |
|--------|------------|
| enable | Enable BFD |
|--------|------------|

**Command Mode:** neighbor : Configure a BGP neighbor

**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)# bfd enable
```

## **bfd enable**

**Description:** Enable Bidirectional Forwarding Detection

**Syntax:**

|        |            |
|--------|------------|
| enable | Enable BFD |
|--------|------------|

**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)# bfd enable
```

### **bfd enable**

**Description:** Enable Bidirectional Forwarding Detection

#### **Syntax:**

|        |            |
|--------|------------|
| enable | Enable BFD |
|--------|------------|

**Command Mode:** neighbor : Configure a BGP neighbor

#### **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)# bfd enable
```

# bfd ip ipv6 authentication

**bfd ip|ipv6 authentication keyed-sha1 keyid <NUMBER> key <WORD>**

**Description:** Configure BFD authentication

**Syntax:**

|            |   |
|------------|---|
| ip         | IPv4  |
| ipv6       | IPv6  |
| keyed-sha1 | Configure Keyed SHA1 authentication               |
| keyid      | Configure authentication key ID                   |
| <keyid>    | Authentication key ID. Number range from=1 to=255 |
| key        | Configure shared authentication key               |
| WORD       | Shared authentication key (Max Size 20)           |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# bfd ip|ipv6 authentication keyed-sha1 keyid <NUMBER> key <WORD>
```

**bfd ip|ipv6 authentication keyed-sha1 keyid <NUMBER> key <WORD>**

**Description:** Configure BFD authentication

**Syntax:**

|            |   |
|------------|---|
| ip         | IPv4  |
| ipv6       | IPv6  |
| keyed-sha1 | Configure Keyed SHA1 authentication               |
| keyid      | Configure authentication key ID                   |
| <keyid>    | Authentication key ID. Number range from=1 to=255 |
| key        | Configure shared authentication key               |
| WORD       | Shared authentication key (Max Size 20)           |

**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)# bfd ip|ipv6 authentication keyed-sha1 keyid <NUMBER> key <WORD>
```

### **bfd ip|ipv6 authentication keyed-sha1 keyid <NUMBER> key <WORD>**

**Description:** Configure BFD authentication

#### **Syntax:**

|            |   |
|------------|---|
| ip         | IPv4  |
| ipv6       | IPv6  |
| keyed-sha1 | Configure Keyed SHA1 authentication               |
| keyid      | Configure authentication key ID                   |
| <keyid>    | Authentication key ID. Number range from=1 to=255 |
| key        | Configure shared authentication key               |
| WORD       | Shared authentication key (Max Size 20)           |

**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)# bfd ip|ipv6 authentication keyed-sha1 keyid <NUMBER> key <WORD>
```

### **bfd ip|ipv6 authentication keyed-sha1 keyid <NUMBER> key <WORD>**

**Description:** Configure BFD authentication

#### **Syntax:**

|            |   |
|------------|---|
| ip         | IPv4  |
| ipv6       | IPv6  |
| keyed-sha1 | Configure Keyed SHA1 authentication               |
| keyid      | Configure authentication key ID                   |
| <keyid>    | Authentication key ID. Number range from=1 to=255 |
| key        | Configure shared authentication key               |
| WORD       | Shared authentication key (Max Size 20)           |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# bfd ip|ipv6 authentication keyed-sha1 keyid <NUMBER> key <WORD>
```

**bfd ip|ipv6 authentication keyed-sha1 keyid <NUMBER> key <WORD>****Description:** Configure BFD authentication**Syntax:**

|            |   |
|------------|---|
| ip         | IPv4  |
| ipv6       | IPv6  |
| keyed-sha1 | Configure Keyed SHA1 authentication               |
| keyid      | Configure authentication key ID                   |
| <keyid>    | Authentication key ID. Number range from=1 to=255 |
| key        | Configure shared authentication key               |
| WORD       | Shared authentication key (Max Size 20)           |

**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)# bfd ip|ipv6 authentication keyed-sha1 keyid <NUMBER> key <WORD>
```

**bfd ip|ipv6 authentication keyed-sha1 keyid <NUMBER> key <WORD>****Description:** Configure BFD authentication**Syntax:**

|            |   |
|------------|---|
| ip         | IPv4  |
| ipv6       | IPv6  |
| keyed-sha1 | Configure Keyed SHA1 authentication               |
| keyid      | Configure authentication key ID                   |
| <keyid>    | Authentication key ID. Number range from=1 to=255 |
| key        | Configure shared authentication key               |
| WORD       | Shared authentication key (Max Size 20)           |

**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)# bfd ip|ipv6 authentication keyed-sha1 keyid <NUMBER> key <WORD>
```

# bfd ip ipv6 inherit

## **bfd ip|ipv6 inherit interface-policy <WORD>**

**Description:** Inherit BFD interface template policy

**Syntax:**

|                  |   |
|------------------|---|
| ip               | IPv4  |
| ipv6             | IPv6  |
| interface-policy | Associate the interface with a BFD interface policy |
| <i>WORD</i>      | Policy name   |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# bfd ip|ipv6 inherit interface-policy <WORD>
```

## **bfd ip|ipv6 inherit interface-policy <WORD>**

**Description:** Inherit BFD interface template policy

**Syntax:**

|                  |   |
|------------------|---|
| ip               | IPv4  |
| ipv6             | IPv6  |
| interface-policy | Associate the interface with a BFD interface policy |
| <i>WORD</i>      | Policy name   |

**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)# bfd ip|ipv6 inherit interface-policy <WORD>
```

## **bfd ip|ipv6 inherit interface-policy <WORD>**

**Description:** Inherit BFD interface template policy

**Syntax:**

|                  |   |
|------------------|---|
| ip               | IPv4  |
| ipv6             | IPv6  |
| interface-policy | Associate the interface with a BFD interface policy |
| <i>WORD</i>      | Policy name   |

**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)# bfd ip|ipv6 inherit interface-policy <WORD>
```

**bfd ip|ipv6 inherit interface-policy <WORD>**

**Description:** Inherit BFD interface template policy

**Syntax:**

|                  |   |
|------------------|---|
| ip               | IPv4  |
| ipv6             | IPv6  |
| interface-policy | Associate the interface with a BFD interface policy |
| <i>WORD</i>      | Policy name   |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# bfd ip|ipv6 inherit interface-policy <WORD>
```

**bfd ip|ipv6 inherit interface-policy <WORD>**

**Description:** Inherit BFD interface template policy

**Syntax:**

|                  |   |
|------------------|---|
| ip               | IPv4  |
| ipv6             | IPv6  |
| interface-policy | Associate the interface with a BFD interface policy |
| <i>WORD</i>      | Policy name   |

**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)# bfd ip|ipv6 inherit interface-policy <WORD>
```

**bfd ip|ipv6 inherit interface-policy <WORD>**

**Description:** Inherit BFD interface template policy

**Syntax:**

|                  |   |
|------------------|---|
| ip               | IPv4  |
| ipv6             | IPv6  |
| interface-policy | Associate the interface with a BFD interface policy |
| <i>WORD</i>      | Policy name   |

**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)# bfd ip|ipv6 inherit interface-policy <WORD>
```

## bfd ip ipv6 tenant

### bfd ip|ipv6 tenant mode

**Description:** Enable BFD Tenant Mode

**Syntax:**

|      |      |
|------|------|
| ip   | IPv4 |
| ipv6 | IPv6 |
| mode | Mode |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# bfd ip|ipv6 tenant mode
```

### bfd ip|ipv6 tenant mode

**Description:** Enable BFD Tenant Mode

**Syntax:**

|      |      |
|------|------|
| ip   | IPv4 |
| ipv6 | IPv6 |
| mode | Mode |

**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)# bfd ip|ipv6 tenant mode
```

### bfd ip|ipv6 tenant mode

**Description:** Enable BFD Tenant Mode

**Syntax:**

|      |      |
|------|------|
| ip   | IPv4 |
| ipv6 | IPv6 |

|      |      |
|------|------|
| mode | Mode |
|------|------|

**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)# bfd ip|ipv6 tenant mode
```

### **bfd ip|ipv6 tenant mode**

**Description:** Enable BFD Tenant Mode

**Syntax:**

|      |      |
|------|------|
| ip   | IPv4 |
| ipv6 | IPv6 |
| mode | Mode |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# bfd ip|ipv6 tenant mode
```

### **bfd ip|ipv6 tenant mode**

**Description:** Enable BFD Tenant Mode

**Syntax:**

|      |      |
|------|------|
| ip   | IPv4 |
| ipv6 | IPv6 |
| mode | Mode |

**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)# bfd ip|ipv6 tenant mode
```

**bfd ip|ipv6 tenant mode****Description:** Enable BFD Tenant Mode**Syntax:**

|      |      |
|------|------|
| ip   | IPv4 |
| ipv6 | IPv6 |
| mode | Mode |

**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)# bfd ip|ipv6 tenant mode
```

# bgp-fabric

**bgp-fabric**

**Description:** Border Gateway Protocol (BGP)

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]  
(config)# bgp-fabric
```

# bgp

## bgp fabric

**Description:** Border Gateway Protocol (BGP)

**Syntax:**

|        |                          |
|--------|--------------------------|
| fabric | Fabric BGP configuration |
|--------|--------------------------|

**Command Mode:** pod : Pod configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# pod <NUMBER>
(config-pod)# bgp fabric
```

## bgp evpn peering [type <type>] [password <password>]

**Description:** BGP EVPN Peering Profile

**Syntax:**

|                 |                                      |
|-----------------|--------------------------------------|
| evpn            | BGP EVPN Peering Profile             |
| peering         | BGP EVPN Peering Profile             |
| <i>type</i>     | (Optional) BGP EVPN Peering type     |
| <i>password</i> | (Optional) BGP EVPN Peering Password |

**Command Mode:** fabric-external : Intrasite/Intersite Connectivity Profile

**Command Path:**

```
# configure [['terminal', 't']]
(config)# fabric-external <NUMBER>
(config-fabric-external)# bgp evpn peering [type <type>] [password <password>]
```

## bgp evpn peering [type <type>] [password <password>]

**Description:** BGP EVPN Peering Profile

**Syntax:**

|                 |                                      |
|-----------------|--------------------------------------|
| evpn            | BGP EVPN Peering Profile             |
| peering         | BGP EVPN Peering Profile             |
| <i>type</i>     | (Optional) BGP EVPN Peering type     |
| <i>password</i> | (Optional) BGP EVPN Peering Password |

**Command Mode:** pod : Pod Profile

**Command Path:**

```
# configure [['terminal', 't']]
(config)# fabric-external <NUMBER>
(config-fabric-external)# pod <NUMBER>
(config-fabric-external-pod)# bgp evpn peering [type <type>] [password <password>]
```

# binddn

**binddn** <WORD>

**Description:** The LDAP bind DN for user lookup in the LDAP directory tree

**Syntax:**

|        |   |
|--------|---|
| <WORD> | user lookup in LDAP directory tree (Max Size 127) |
|--------|---|

**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)# binddn <WORD>
```



# bpdu-filter

## bpdu-filter

**Description:** Enable BPDU filter for extended chassis ports

**Command Mode:** spanning-tree : STP MST configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spanning-tree mst configuration
(config-stp)# bpdu-filter
```

# breakout

## breakout <breakout-map>

**Description:** Configure breakout ports

**Syntax:**

|                |              |
|----------------|--------------|
| <breakout-map> | Breakout Map |
|----------------|--------------|

**Command Mode:** leaf-interface-group : Configure Leaf Interface Group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf-interface-profile <WORD>
(config-leaf-if-profile)# leaf-interface-group <WORD>
(config-leaf-if-group)# breakout <breakout-map>
```

## breakout <breakout-map>

**Description:** Configure breakout ports

**Syntax:**

|                |              |
|----------------|--------------|
| <breakout-map> | Breakout Map |
|----------------|--------------|

**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)# breakout <breakout-map>
```

## breakout <breakout-map>

**Description:** Configure breakout ports

**Syntax:**

|                |              |
|----------------|--------------|
| <breakout-map> | Breakout Map |
|----------------|--------------|

**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)# breakout <breakout-map>
```

# bridge-domain-match

## bridge-domain-match

**Description:** Remove the global default-export route-profile

**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)# bridge-domain-match
```

## bridge-domain-match

**Description:** Remove the global default-export route-profile

**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)# bridge-domain-match
```

# bridge-domain

## bridge-domain <WORD>

**Description:** Configuration for bridge-domain

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the bridge-domain (Max Size 64) |
|-------------|---|

**Command Mode:** tenant : Tenant configuration mode

**Command Path:**

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

## bridge-domain member <WORD>

**Description:** Bind the EPG to a bridge-domain

**Syntax:**

|             |  |
|-------------|--|
| member      | Bind the EPG to a bridge-domain          |
| <i>WORD</i> | bridge-domain to associate (Max Size 64) |

**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)# bridge-domain member <WORD>
```

## bridge-domain <WORD>

**Description:** Bind the EPG to a bridge-domain

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | bridge domain associated with epg suggestion use "inb" |
|-------------|--|

**Command Mode:** inband-mgmt : Enter Inside In-band management mode to modify inband properties or create new inband

**Command Path:**

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

```
(config-tenant)# inband-mgmt epg <WORD>
(config-inb-epg)# bridge-domain <WORD>
```

### bridge-domain member <WORD>

**Description:** Bind the EPG to a bridge-domain

**Syntax:**

|             |  |
|-------------|--|
| member      | Bind the EPG to a bridge-domain          |
| <i>WORD</i> | bridge-domain to associate (Max Size 64) |

**Command Mode:** external-l2 : L2 external EPG creation/configuration

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# external-l2 epg <WORD>
(config-tenant-l2ext-epg)# bridge-domain member <WORD>
```

### bridge-domain tenant <tenant> name <name>

**Description:** Configure Bridge Domain for a L4-L7 Graph Connector.

**Syntax:**

|          |  |
|----------|--|
| tenant   | Tenant in which the bridge domain is available |
| <tenant> | Tenant in which the bridge domain is available |
| name     | Bridge domain name                             |
| <name>   | Name of bd                                     |

**Command Mode:** connector : Configure Connector for a Service Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# 1417 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)# bridge-domain tenant <tenant> name <name>
```

# burst-rate

**burst-rate <arg>**

**Description:** Set burst-rate (Byte Per Second)

**Syntax:**

|            |  |
|------------|--|
| <i>arg</i> | . Number range from=10 to=549755813760 |
|------------|--|

**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)# burst-rate <>
```



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# callhome

## callhome common

**Description:** Callhome common policy configuration mode

**Syntax:**

|        |   |
|--------|---|
| common | Callhome common policy configuration mode |
|--------|---|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# callhome common
```

## callhome test info|notice|emergency|alert|critical|error|debug|warning

**Description:** Send callhome test message

**Syntax:**

|           |                            |
|-----------|----------------------------|
| test      | Send callhome test message |
| info      | Info                       |
| notice    | Notice                     |
| emergency | Emergency                  |
| alert     | Alert                      |
| critical  | Critical                   |
| error     | Error                      |
| debug     | Debug                      |
| warning   | Warning                    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# callhome test info|notice|emergency|alert|critical|error|debug|warning
```

# callhome test info notice emergency alert critical error debug warning node

**callhome test info|notice|emergency|alert|critical|error|debug|warning node <Source node>**

**Description:** Source node

**Syntax:**

|                    |  |
|--------------------|--|
| test               | Send callhome test message                                     |
| info               | Info   |
| notice             | Notice   |
| emergency          | Emergency  |
| alert              | Alert  |
| critical           | Critical   |
| error              | Error  |
| debug              | Debug  |
| warning            | Warning  |
| <i>Source node</i> | leaf or spine node. Number range from=0 to=9223372036854775807 |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# callhome test info|notice|emergency|alert|critical|error|debug|warning node <Source node>
```

# catalog-version

**catalog-version** <version>

**Description:** Change catalog version

**Syntax:**

|           |                  |
|-----------|------------------|
| <version> | firmware version |
|-----------|------------------|

**Command Mode:** firmware : Firmware upgrade configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# firmware
(config-firmware)# catalog-version <version>
```

# cdp

## cdp enable|default

**Description:** Configure CDP parameters on DVS uplink ports

**Syntax:**

|         |                            |
|---------|----------------------------|
| enable  | Enable CDP                 |
| default | Remove CDP override policy |

**Command Mode:** configure-dvs : Configure a VMWare Domain as DVS type

**Command Path:**

```
# configure [['terminal', 't']]
(config)# vmware-domain <WORD> [delimiter <WORD>] [access-mode <access-mode>]
(config-vmware)# configure-dvs
(config-vmware-dvs)# cdp enable|default
```

## cdp enable|default

**Description:** Configure CDP parameters on AVS/AVE uplink ports

**Syntax:**

|         |                            |
|---------|----------------------------|
| enable  | Enable CDP                 |
| default | Remove CDP override policy |

**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)# cdp enable|default
```

## cdp enable|default

**Description:** Configure CDP parameters on AVS/AVE uplink ports

**Syntax:**

|         |                            |
|---------|----------------------------|
| enable  | Enable CDP                 |
| default | Remove CDP override policy |

**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)# cdp enable|default
```

**cdp enable****Description:** Configure CDP interface parameters**Syntax:**

|        |                          |
|--------|--------------------------|
| enable | Configure CDP parameters |
|--------|--------------------------|

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

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

**cdp enable****Description:** Configure CDP interface parameters**Syntax:**

|        |                          |
|--------|--------------------------|
| enable | Configure CDP parameters |
|--------|--------------------------|

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

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

**cdp enable****Description:** Configure CDP interface parameters**Syntax:**

|        |                          |
|--------|--------------------------|
| enable | Configure CDP parameters |
|--------|--------------------------|

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

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

**cdp enable****Description:** Configure CDP interface parameters**Syntax:**

|        |                          |
|--------|--------------------------|
| enable | Configure CDP 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)# cdp enable
```

**cdp enable****Description:** Configure CDP interface parameters**Syntax:**

|        |                          |
|--------|--------------------------|
| enable | Configure CDP 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)# cdp enable
```

**cdp enable****Description:** Configure CDP interface parameters**Syntax:**

|        |                          |
|--------|--------------------------|
| enable | Configure CDP 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)# cdp enable
```

**cdp enable****Description:** Configure CDP interface parameters**Syntax:**

|        |                          |
|--------|--------------------------|
| enable | Configure CDP 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)# cdp enable
```

### cdp enable

**Description:** Configure CDP interface parameters

**Syntax:**

|        |                          |
|--------|--------------------------|
| enable | Configure CDP 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)# cdp enable
```



# cert-chain

**cert-chain** <WORD>

**Description:** Set The PEM-encoded chain of trust from the trustpoint to a trusted root authority.

**Syntax:**

|        |  |
|--------|--|
| <WORD> | The PEM-encoded chain of trust from the trustpoint to a trusted root authority |
|--------|--|

**Command Mode:** crypto ca : Configure certificate authority related information

**Command Path:**

```
# configure [['terminal', 't']]
(config)# crypto ca <WORD>
(config-ca)# cert-chain <WORD>
```

# cert

**cert** <CERTIFICATE>

**Description:** Provide a certificate, that contains public key and signed information.

**Syntax:**

|               |  |
|---------------|--|
| <CERTIFICATE> | Provide a certificate in quotes, that contains public key and signed information |
|---------------|--|

**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)# cert <CERTIFICATE>
```

# certificate

**certificate** <WORD>

**Description:** Create AAA user certificate in X.509 format.

**Syntax:**

|             |                               |
|-------------|-------------------------------|
| <i>WORD</i> | Name for the user certificate |
|-------------|-------------------------------|

**Command Mode:** username : Create a locally-authenticated user account

**Command Path:**

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

# channel-group

**channel-group <WORD> [vpc]**

**Description:** Create Port Channel

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Port-Channel/VPC Name (Max Size 64)       |
| vpc         | (Optional) Configure channel-group as VPC |

**Command Mode:** leaf-interface-group : Configure Leaf Interface Group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf-interface-profile <WORD>
(config-leaf-if-profile)# leaf-interface-group <WORD>
(config-leaf-if-group)# channel-group <WORD> [vpc]
```

**channel-group <WORD> [vpc]**

**Description:** Configure Port Channel on Fex

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Port-Channel/VPC Name (Max Size 64)          |
| vpc         | (Optional) Create the channel-group as a VPC |

**Command Mode:** fex-interface-group : Configure Fex Interface Group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# fex-profile <WORD>
(config-fex-profile)# fex-interface-group <WORD>
(config-fex-if-group)# channel-group <WORD> [vpc]
```

**channel-group <WORD> [vpc]**

**Description:** Associate a Channel Group to this Interface

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Port-Channel/VPC Name (Max Size 64)          |
| vpc         | (Optional) Create the channel-group as a VPC |

**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)# channel-group <WORD> [vpc]
```

### channel-group <WORD> [vpc]

**Description:** Associate a Channel Group to this Interface

#### Syntax:

|             |  |
|-------------|--|
| <i>WORD</i> | Port-Channel/VPC Name (Max Size 64)          |
| vpc         | (Optional) Create the channel-group as a VPC |

**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)# channel-group <WORD> [vpc]
```

# channel-mode

## channel-mode on|active|passive|mac-pinning

**Description:** Configure LACP mode override on DVS uplink ports

**Syntax:**

|             |                                    |
|-------------|------------------------------------|
| on          | Set channeling mode to ON (static) |
| active      | Set channeling mode to ACTIVE      |
| passive     | Set channeling mode to PASSIVE     |
| mac-pinning | Set channeling mode to MAC-PINNING |

**Command Mode:** configure-dvs : Configure a VMWare Domain as DVS type

**Command Path:**

```
# configure [['terminal', 't']]
(config)# vmware-domain <WORD> [delimiter <WORD>] [access-mode <access-mode>]
(config-vmware)# configure-dvs
(config-vmware-dvs)# channel-mode on|active|passive|mac-pinning
```

## channel-mode on|active|passive|mac-pinning

**Description:** Configure LACP mode override on AVS/AVE uplink ports

**Syntax:**

|             |                                    |
|-------------|------------------------------------|
| on          | Set channeling mode to ON (static) |
| active      | Set channeling mode to ACTIVE      |
| passive     | Set channeling mode to PASSIVE     |
| mac-pinning | Set channeling mode to MAC-PINNING |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# vmware-domain <WORD> [delimiter <WORD>] [access-mode <access-mode>]
(config-vmware)# configure-avs
(config-vmware-avs)# channel-mode on|active|passive|mac-pinning
```

## channel-mode on|active|passive|mac-pinning

**Description:** Configure LACP mode override on AVS/AVE uplink ports

**Syntax:**

|             |                                    |
|-------------|------------------------------------|
| on          | Set channeling mode to ON (static) |
| active      | Set channeling mode to ACTIVE      |
| passive     | Set channeling mode to PASSIVE     |
| mac-pinning | Set channeling mode to MAC-PINNING |

**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)# channel-mode on|active|passive|mac-pinning
```

**channel-mode on|active|passive|mac-pinning**

**Description:** Configure channeling mode

**Syntax:**

|             |                                    |
|-------------|------------------------------------|
| on          | Set channeling mode to ON (static) |
| active      | Set channeling mode to ACTIVE      |
| passive     | Set channeling mode to PASSIVE     |
| mac-pinning | Set channeling mode to MAC-PINNING |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template port-channel <WORD>
(config-po-ch-if)# channel-mode on|active|passive|mac-pinning
```

**channel-mode on|active|passive|mac-pinning**

**Description:** Configure channeling mode

**Syntax:**

|             |                                    |
|-------------|------------------------------------|
| on          | Set channeling mode to ON (static) |
| active      | Set channeling mode to ACTIVE      |
| passive     | Set channeling mode to PASSIVE     |
| mac-pinning | Set channeling mode to MAC-PINNING |

**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)# channel-mode on|active|passive|mac-pinning
```

**channel-mode on|active|passive|mac-pinning****Description:** Configure channeling mode**Syntax:**

|             |                                    |
|-------------|------------------------------------|
| on          | Set channeling mode to ON (static) |
| active      | Set channeling mode to ACTIVE      |
| passive     | Set channeling mode to PASSIVE     |
| mac-pinning | Set channeling mode to MAC-PINNING |

**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)# channel-mode on|active|passive|mac-pinning
```

**channel-mode on|active|passive|mac-pinning****Description:** Configure channeling mode**Syntax:**

|             |                                    |
|-------------|------------------------------------|
| on          | Set channeling mode to ON (static) |
| active      | Set channeling mode to ACTIVE      |
| passive     | Set channeling mode to PASSIVE     |
| mac-pinning | Set channeling mode to MAC-PINNING |

**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)# channel-mode on|active|passive|mac-pinning
```



# cipher-suite

**cipher-suite <arg>**

**Description:** Configure SAP negotiation algorithm

**Syntax:**

|            |           |
|------------|-----------|
| <i>arg</i> | default = |
|------------|-----------|

**Command Mode:** template macsec access|fabric security-policy : Configure MAC security policy parameters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template macsec access|fabric security-policy <WORD>
(config-macsec-param)# cipher-suite <>
```

# ciphers

**ciphers** <WORD>

**Description:** HTTPS cipher suite

**Syntax:**

|             |                             |
|-------------|-----------------------------|
| <i>WORD</i> | Provide a valid cipher name |
|-------------|-----------------------------|

**Command Mode:** https : HTTPS communication policy group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# comm-policy <WORD>
(config-comm-policy)# https
(config-https)# ciphers <WORD>
```

# clear-encryption-key

**clear-encryption-key**

**Description:** Clears AES encryption key

**Command Mode:** crypto aes : AES encryption configuration

**Command Path:**

```
# configure [['terminal', 't']]
(config)# crypto aes
(config-aes)# clear-encryption-key
```

# clear-pwd-history

## clear-pwd-history

**Description:** Clears the password history of a locally-authenticated user

**Command Mode:** username : Create a locally-authenticated user account

### Command Path:

```
# configure [['terminal', 't']]
(config)# username <WORD>
(config-username)# clear-pwd-history
```

# clear core-status controller

**clear core-status controller** <NUMBER> <WORD>

**Description:** Remove exported core status and files for controllers

**Syntax:**

|        |  |
|--------|--|
| <1-64> | Controller id. Number range from=1 to=64 |
| WORD   | Core status collection time              |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# clear core-status controller <NUMBER> <WORD>
```

# clear core-status switch

**clear core-status switch** <NUMBER> <WORD>

**Description:** Remove exported core status and files for switches

**Syntax:**

|            |  |
|------------|--|
| <101-4000> | Switch id. Number range from=101 to=4000 |
| WORD       | Core status collection time              |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# clear core-status switch <NUMBER> <WORD>
```

# clear core controller

**clear core controller** <NUMBER> <WORD>

**Description:** Remove core metadata information generated at a controller

**Syntax:**

|        |  |
|--------|--|
| <1-64> | Controller id. Number range from=1 to=64 |
| WORD   | Core creation time                       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# clear core controller <NUMBER> <WORD>
```

# clear core switch

**clear core switch** <NUMBER> <WORD>

**Description:** Remove core metadata information generated at a switch

**Syntax:**

|            |  |
|------------|--|
| <101-4000> | Switch id. Number range from=101 to=4000 |
| WORD       | Core creation time                       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# clear core switch <NUMBER> <WORD>
```



# clear endpoints leaf tenant bridge-domain

**clear endpoints leaf <node-id> tenant <tenant-name> bridge-domain <bd-name>**

**Description:** Clear Bridge-Domain Hosting the endpoints

**Syntax:**

|                    |   |
|--------------------|---|
| leaf               | Leaf Number   |
| <i>node-id</i>     | Leaf Number (Max Size 4000). Number range from=0 to=9223372036854775807 |
| tenant             | Tenant Hosting the endpoints  |
| <i>tenant-name</i> | Tenant Hosting the endpoints (Max Size 63)                              |
| bridge-domain      | Bridge-Domain Hosting the endpoints                                     |
| <i>bd-name</i>     | Bridge-Domain Hosting the endpoints (Max Size 64)                       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# clear endpoints leaf <WORD> tenant <WORD> bridge-domain <WORD>
```

## clear endpoints leaf tenant bridge-domain vlan

**clear endpoints leaf <node-id> tenant <tenant-name> bridge-domain <bd-name> vlan <NUMBER>**

**Description:** Clear VLAN Hosting the endpoints

**Syntax:**

|                    |  |
|--------------------|--|
| leaf               | Leaf Number  |
| <i>node-id</i>     | Leaf Number (Max Size 4000). Number range from=0 to=9223372036854775807                                    |
| tenant             | Tenant Hosting the endpoints   |
| <i>tenant-name</i> | Tenant Hosting the endpoints (Max Size 63)   |
| bridge-domain      | Bridge-Domain Hosting the endpoints  |
| <i>bd-name</i>     | Bridge-Domain Hosting the endpoints (Max Size 64)  |
| vlan               | VLAN Hosting the endpoints   |
| <1-4094>           | The number of the encapsulation VLAN, from 1 to 4094. For example, for vlan-23 you enter 23 in this field. |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# clear endpoints leaf <WORD> tenant <WORD> bridge-domain <WORD> vlan <NUMBER>
```

# clear endpoints leaf tenant vrf

**clear endpoints leaf <node-id> tenant <tenant-name> vrf <vrf-name>**

**Description:** Clear VRF Hosting the endpoints

**Syntax:**

|                    |   |
|--------------------|---|
| leaf               | Leaf Number   |
| <i>node-id</i>     | Leaf Number (Max Size 4000). Number range from=0 to=9223372036854775807 |
| tenant             | Tenant Hosting the endpoints  |
| <i>tenant-name</i> | Tenant Hosting the endpoints (Max Size 63)                              |
| vrf                | VRF Hosting the endpoints   |
| <i>vrf-name</i>    | Name of the VRF Hosting the endpoints (Max Size 64)                     |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# clear endpoints leaf <WORD> tenant <WORD> vrf <WORD>
```

# clear firmware

## clear firmware upgrade scheduler-restrictions

**Description:** Clear firmware upgrade scheduler restrictions

**Syntax:**

|                        |                        |
|------------------------|------------------------|
| upgrade                | upgrade                |
| scheduler-restrictions | scheduler-restrictions |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# clear firmware upgrade scheduler-restrictions
```

# clear snapshot file

**clear snapshot file <WORD>**

**Description:** Remove snapshot file

**Syntax:**

|             |                    |
|-------------|--------------------|
| <i>WORD</i> | Snapshot file name |
|-------------|--------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# clear snapshot file <WORD>
```

# clear snapshot job

**clear snapshot job** <WORD>

**Description:** Remove snapshot job

**Syntax:**

|             |                   |
|-------------|-------------------|
| <i>WORD</i> | Snapshot job name |
|-------------|-------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# clear snapshot job <WORD>
```

# clear techsupport controllers

**clear techsupport controllers** <NUMBER> <WORD>

**Description:** Clear techsupport status for controllers

**Syntax:**

|        |  |
|--------|--|
| <1-64> | Controller id. Number range from=1 to=64 |
| WORD   | Techsupport collection time              |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# clear techsupport controllers <NUMBER> <WORD>
```

# clear techsupport switch

**clear techsupport switch** <NUMBER> <WORD>

**Description:** Clear techsupport status for switch

**Syntax:**

|            |  |
|------------|--|
| <101-4000> | Switch id. Number range from=101 to=4000 |
| WORD       | Techsupport collection time              |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# clear techsupport switch <NUMBER> <WORD>
```



# clear tenant

**clear tenant** <WORD>

**Description:** Clear Tenant related information

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
|-------------|---|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# clear tenant <WORD>
```

# clear tenant bridge-domain

**clear tenant <WORD> bridge-domain <WORD>**

**Description:** Show Bridge-domain Information

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# clear tenant <WORD> bridge-domain <WORD>
```

# clear tenant bridge-domain first-hop-security statistics arp

**clear tenant <WORD> bridge-domain <WORD> first-hop-security statistics arp**

**Description:** Clear Bridge-domain First Hop Security ARP Statistics

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# clear tenant <WORD> bridge-domain <WORD> first-hop-security statistics arp
```

# clear tenant bridge-domain first-hop-security statistics dhcpv4

**clear tenant <WORD> bridge-domain <WORD> first-hop-security statistics dhcpv4**

**Description:** Clear Bridge-domain First Hop Security DHCPv6 Statistics

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# clear tenant <WORD> bridge-domain <WORD> first-hop-security statistics dhcpv4
```

# clear tenant bridge-domain first-hop-security statistics dhcpv6

**clear tenant <WORD> bridge-domain <WORD> first-hop-security statistics dhcpv6**

**Description:** Clear Bridge-domain First Hop Security DHCPv6 Statistics

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# clear tenant <WORD> bridge-domain <WORD> first-hop-security statistics dhcpv6
```

# clear tenant bridge-domain first-hop-security statistics neighbor-discovery

**clear tenant <WORD> bridge-domain <WORD> first-hop-security statistics neighbor-discovery**

**Description:** Clear Bridge-domain First Hop Security Neighbor Discovery Statistics

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# clear tenant <WORD> bridge-domain <WORD> first-hop-security statistics neighbor-discovery
```

# clear tenant bridge-domain first-hop-security violation-event all

**clear tenant <WORD> bridge-domain <WORD> first-hop-security violation-event all**

**Description:** Clear all FHS Violations

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# clear tenant <WORD> bridge-domain <WORD> first-hop-security violation-event all
```

# clear tenant bridge-domain first-hop-security violation-event feature

**clear tenant** <WORD> **bridge-domain** <WORD> **first-hop-security violation-event feature** <WORD> **origin** <WORD> **type** <WORD> **ip** <WORD> **mac** <WORD> **pctag** <WORD>

**Description:** Specify FHS Violation feature type

**Syntax:**

|        |   |
|--------|---|
| WORD   | Name of the tenant to filter on (Max Size 63) |
| WORD   | Name of the bridge-domain (Max Size 64)       |
| WORD   | Specify FHS Violation feature type            |
| origin | Specify FHS Violation origin type             |
| WORD   | Specify FHS Violation origin type             |
| type   | Specify FHS Violation type                    |
| WORD   | Specify FHS Violation type                    |
| ip     | Specify FHS Violation EndPoint Ip             |
| WORD   | Specify FHS Violation EndPoint Ip             |
| mac    | Specify FHS Violation EndPoint MAC            |
| WORD   | Specify FHS Violation EndPoint MAC            |
| pctag  | Specify FHS Violation EndPoint PC Tag         |
| WORD   | Specify FHS Violation EndPoint MAC            |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# clear tenant <WORD> bridge-domain <WORD> first-hop-security violation-event feature <WORD>
origin <WORD> type <WORD> ip <WORD> mac <WORD> pctag <WORD>
```



# clear troubleshoot report

**clear troubleshoot report <WORD>**

**Description:** Remove non-pending reports of a troubleshoot session

**Syntax:**

|             |                      |
|-------------|----------------------|
| <i>WORD</i> | Report creation time |
|-------------|----------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# clear troubleshoot report <WORD>
```

# client-cert-ca

**client-cert-ca** <ca-name>

**Description:** Use specified CA for the HTTPS client certificate auth

**Syntax:**

|                |                       |
|----------------|-----------------------|
| <i>ca-name</i> | CA name (Max Size 64) |
|----------------|-----------------------|

**Command Mode:** https : HTTPS communication policy group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# comm-policy <WORD>
(config-comm-policy)# https
(config-https)# client-cert-ca <ca-name>
```

# client-cert-state-enable

**client-cert-state-enable**

**Description:** Enable the state of the HTTPS communication service

**Command Mode:** https : HTTPS communication policy group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# comm-policy <WORD>
(config-comm-policy)# https
(config-https)# client-cert-state-enable
```

# clock display-format

**clock display-format local|utc**

**Description:** Configure Clock Display Format

**Syntax:**

|       |                      |
|-------|----------------------|
| local | Local display format |
| utc   | UTC display format   |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# clock display-format local|utc
```

# clock show-offset

## clock show-offset enable

**Description:** Enable/Disable Display of the Offset

**Syntax:**

|        |   |
|--------|---|
| enable | Enable/Disable Display of the Offset from UTC |
|--------|---|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# clock show-offset enable
```

# clock timezone

**clock timezone** <timeZone>

**Description:** Configure clock timezone

**Syntax:**

|                 |                        |
|-----------------|------------------------|
| <i>timeZone</i> | The Timezone Selection |
|-----------------|------------------------|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# clock timezone <timeZone>
```

# cluster-device

**cluster-device** <WORD> [vcenter <WORD>] [vm <WORD>] [host <host>] [management-ip <management-ip>] [gateway <gateway>] [subnet-mask <subnet-mask>] [management-port <management-port>] [management-vnic <management-vnic>] [mgmt-portgroup <mgmt-portgroup>] [ha-portgroup <ha-portgroup>] [ha-vnic <ha-vnic>] [user-name <WORD>]

**Description:** Configure L4-L7 Cluster Device

## Syntax:

|                        |   |
|------------------------|---|
| <i>WORD</i>            | device name (Max Size 64)                                 |
| <i>WORD</i>            | (Optional) vcenter name (Max Size 64)                     |
| <i>WORD</i>            | (Optional) vm name (Max Size 128)                         |
| <i>host</i>            | (Optional) host   |
| <i>management-ip</i>   | (Optional) Enter management IP address for dynamic device |
| <i>gateway</i>         | (Optional) Enter gateway IP address                       |
| <i>subnet-mask</i>     | (Optional) Enter subnet mask                              |
| <i>management-port</i> | (Optional) Enter management port http/https               |
| <i>management-vnic</i> | (Optional) Enter management VNic for dynamic device       |
| <i>mgmt-portgroup</i>  | (Optional) Enter management port group name               |
| <i>ha-portgroup</i>    | (Optional) Enter HA PortGroup name                        |
| <i>ha-vnic</i>         | (Optional) Enter ha VNic for ha Port Group                |
| <i>WORD</i>            | (Optional) username for concrete device                   |

**Command Mode:** l4l7 cluster name : Add a L4-L7 Service Device Cluster

## Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# l4l7 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-device <WORD> [vcenter <WORD>] [vm <WORD>] [host <host>]
[management-ip <management-ip>] [gateway <gateway>] [subnet-mask <subnet-mask>]
[management-port <management-port>] [management-vnic <management-vnic>] [mgmt-portgroup
<mgmt-portgroup>] [ha-portgroup <ha-portgroup>] [ha-vnic <ha-vnic>] [user-name <WORD>]
```

# cluster-interface

**cluster-interface** <WORD> [vlan <NUMBER>]

**Description:** Configure L4-L7 Cluster Interface

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Cluster interface name (Max Size 16)   |
| <vlan>      | (Optional) Static Encap/VLAN to user for this cluster interface. Number range from=1 to=4094 |

**Command Mode:** l4l7 cluster name : Add a L4-L7 Service Device Cluster

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# l4l7 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>]
```



# collect

**collect <arg>**

**Description:** Configure collect

**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)# collect <>
```

**collect <arg>**

**Description:** Configure collect

**Syntax:**

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

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

**Command Path:**

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

# comm-policy

**comm-policy** <WORD>

**Description:** Configure any communication policy, ssh/telnet/shellinabox/http/https

**Syntax:**

|             |                                     |
|-------------|-------------------------------------|
| <i>WORD</i> | Provide a communication policy name |
|-------------|-------------------------------------|

**Command Mode:** configure : Configuration Mode

**Command Path:**

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

# community-list expanded

**community-list expanded <WORD> <LINE>**

**Description:** Configure expanded community list templates

**Syntax:**

|             |                                   |
|-------------|-----------------------------------|
| <i>WORD</i> | Community list name (Max Size 64) |
| <i>LINE</i> | Regular-expression                |

**Command Mode:** template route group : Configure Route Group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template route group <WORD> tenant <WORD>
(config-route-group)# community-list expanded <WORD> <LINE>
```

**community-list expanded <WORD> <LINE>**

**Description:** Configure expanded community list templates

**Syntax:**

|             |                                   |
|-------------|-----------------------------------|
| <i>WORD</i> | Community list name (Max Size 64) |
| <i>LINE</i> | Regular-expression                |

**Command Mode:** template route group : Configure Route Group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# template route group <WORD> tenant <WORD>
(config-route-group)# community-list expanded <WORD> <LINE>
```

## community-list standard

### community-list standard <WORD> ASN2:NN

**Description:** Configure standard community list templates

**Syntax:**

|                |                                   |
|----------------|-----------------------------------|
| <i>WORD</i>    | Community list name (Max Size 64) |
| <i>ASN2:NN</i> | Community number aa:nn format     |

**Command Mode:** template route group : Configure Route Group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template route group <WORD> tenant <WORD>
(config-route-group)# community-list standard <WORD> ASN2:NN
```

### community-list standard <WORD> ASN2:NN

**Description:** Configure standard community list templates

**Syntax:**

|                |                                   |
|----------------|-----------------------------------|
| <i>WORD</i>    | Community list name (Max Size 64) |
| <i>ASN2:NN</i> | Community number aa:nn format     |

**Command Mode:** template route group : Configure Route Group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# template route group <WORD> tenant <WORD>
(config-route-group)# community-list standard <WORD> ASN2:NN
```

# compatibility-check

## compatibility-check

**Description:** Check for compatibility

**Command Mode:** controller-group : Controller Upgrade Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# firmware
(config-firmware)# controller-group
(config-firmware-controller)# compatibility-check
```

## compatibility-check

**Description:** Check for compatibility

**Command Mode:** switch-group : Create switch firmware upgrade policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# firmware
(config-firmware)# switch-group <WORD>
(config-firmware-switch)# compatibility-check
```

# conf-offset

**conf-offset** <arg>

**Description:** Configure confidentiality offset for encryption

**Syntax:**

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

**Command Mode:** template macsec access|fabric security-policy : Configure MAC security policy parameters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template macsec access|fabric security-policy <WORD>
(config-macsec-param)# conf-offset <>
```

# config-file

**config-file** <config-file>

**Description:** Select configuration file SVM instantiation policy

**Syntax:**

|                    |  |
|--------------------|--|
| <i>config-file</i> | Select configuration file SVM instantiation policy |
|--------------------|--|

**Command Mode:** inst-pol : Configure L4L7 service vm instantiation policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# inst-pol <WORD> <vmm-domain> <ctrlr> <vm-template> <resource-pool>
<datastore>
(config-inst-pol)# config-file <config-file>
```

# configure-ave

## configure-ave

**Description:** Configure a Cisco AVE domain

**Command Mode:** vmware-domain : Create a VMM VMWare Domain

### Command Path:

```
# configure [['terminal', 't']]
(config)# vmware-domain <WORD> [delimiter <WORD>] [access-mode <access-mode>]
(config-vmware)# configure-ave
```



# configure-avs

## configure-avs

**Description:** Configure a VMWare Domain as AVS (N1K) type

**Command Mode:** vmware-domain : Create a VMM VMWare Domain

### Command Path:

```
# configure [['terminal', 't']]
(config)# vmware-domain <WORD> [delimiter <WORD>] [access-mode <access-mode>]
(config-vmware)# configure-avs
```

# configure-dvs

## configure-dvs

**Description:** Configure a VMWare Domain as DVS type

**Command Mode:** vmware-domain : Create a VMM VMWare Domain

### Command Path:

```
# configure [['terminal', 't']]
(config)# vmware-domain <WORD> [delimiter <WORD>] [access-mode <access-mode>]
(config-vmware)# configure-dvs
```

# configure

**configure** [['terminal', 't']]

**Description:** Configuration Mode

**Syntax:**

|          |                                     |
|----------|-------------------------------------|
| terminal | (Optional) configure using terminal |
| terminal | (Optional) configure using terminal |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# configure [['terminal', 't']]
```

## connection intra-service

**connection** <WORD> [peerconnect <Peer connectivity>] intra-service service1 <WORD> connector1 <WORD> service2 <WORD> connector2 <WORD>

**Description:** Configure L4-L7 connection between service nodes

**Syntax:**

|                          |   |
|--------------------------|---|
| <i>WORD</i>              | Connection name (Max Size 64)                               |
| <i>Peer connectivity</i> | (Optional) Configure connectivity to peer                   |
| service1                 | Service node 1  |
| <i>WORD</i>              | service-node-1 name (Max Size 64)                           |
| connector1               | Connector on service node 1 that connects to the connection |
| <i>WORD</i>              | service-node-1 connector name (Max Size 64)                 |
| service2                 | Service node 2  |
| <i>WORD</i>              | service-node-2 name (Max Size 64)                           |
| connector2               | Connector on service node 2 that connects to the connection |
| <i>WORD</i>              | service-node-2 connector name (Max Size 64)                 |

**Command Mode:** l4l7 graph : Configure L4-L7 Service Graph

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# l4l7 graph <WORD> [contract <contract-option>]
(config-graph)# connection <WORD> [peerconnect <Peer connectivity>] intra-service service1
<WORD> connector1 <WORD> service2 <WORD> connector2 <WORD>
```

# connection intra-service service1 connector1 service2 connector2 copyservice

**connection** <WORD> [peerconnect <Peer connectivity>] intra-service service1 <WORD> connector1 <WORD> service2 <WORD> connector2 <WORD> copyservice <WORD> connector <WORD>

**Description:** Configure copy node and connector

## Syntax:

|                          |  |
|--------------------------|--|
| <i>WORD</i>              | Connection name (Max Size 64)                                  |
| <i>Peer connectivity</i> | (Optional) Configure connectivity to peer                      |
| service1                 | Service node 1   |
| <i>WORD</i>              | service-node-1 name (Max Size 64)                              |
| connector1               | Connector on service node 1 that connects to the connection    |
| <i>WORD</i>              | service-node-1 connector name (Max Size 64)                    |
| service2                 | Service node 2   |
| <i>WORD</i>              | service-node-2 name (Max Size 64)                              |
| connector2               | Connector on service node 2 that connects to the connection    |
| <i>WORD</i>              | service-node-2 connector name (Max Size 64)                    |
| <i>WORD</i>              | service node name (Max Size 64)                                |
| connector                | Connector on the service node that connects to a terminal node |
| <i>WORD</i>              | connector name (Max Size 64)                                   |

**Command Mode:** l4l7 graph : Configure L4-L7 Service Graph

## Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# l4l7 graph <WORD> [contract <contract-option>]
(config-graph)# connection <WORD> [peerconnect <Peer connectivity>] intra-service service1
<WORD> connector1 <WORD> service2 <WORD> connector2 <WORD> copyservice <WORD> connector
<WORD>
```

## connection terminal provider consumer service

**connection** <WORD> [peerconnect <Peer connectivity>] terminal provider|consumer service <WORD>  
connector <WORD>

**Description:** Configure service node that connects to a terminal node

**Syntax:**

|                          |  |
|--------------------------|--|
| <i>WORD</i>              | Connection name (Max Size 64)                                  |
| <i>Peer connectivity</i> | (Optional) Configure connectivity to peer                      |
| provider                 | Provider terminal  |
| consumer                 | Consumer terminal  |
| <i>WORD</i>              | service node name (Max Size 64)                                |
| connector                | Connector on the service node that connects to a terminal node |
| <i>WORD</i>              | connector name (Max Size 64)                                   |

**Command Mode:** l4l7 graph : Configure L4-L7 Service Graph

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# l4l7 graph <WORD> [contract <contract-option>]
(config-graph)# connection <WORD> [peerconnect <Peer connectivity>] terminal provider|consumer
service <WORD> connector <WORD>
```

# connection terminal provider consumer service connector copyservice

**connection** <WORD> [peerconnect <Peer connectivity>] terminal provider|consumer service <WORD> connector <WORD> copyservice <WORD> connector <WORD>

**Description:** Configure copy node and connector

**Syntax:**

|                          |  |
|--------------------------|--|
| <i>WORD</i>              | Connection name (Max Size 64)                                  |
| <i>Peer connectivity</i> | (Optional) Configure connectivity to peer                      |
| provider                 | Provider terminal  |
| consumer                 | Consumer terminal  |
| <i>WORD</i>              | service node name (Max Size 64)                                |
| connector                | Connector on the service node that connects to a terminal node |
| <i>WORD</i>              | connector name (Max Size 64)                                   |
| <i>WORD</i>              | service node name (Max Size 64)                                |
| connector                | Connector on the service node that connects to a terminal node |
| <i>WORD</i>              | connector name (Max Size 64)                                   |

**Command Mode:** l4l7 graph : Configure L4-L7 Service Graph

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# l4l7 graph <WORD> [contract <contract-option>]
(config-graph)# connection <WORD> [peerconnect <Peer connectivity>] terminal provider|consumer
service <WORD> connector <WORD> copyservice <WORD> connector <WORD>
```

# connection terminal provider consumer terminal provider consumer copyservice

**connection** <WORD> [peerconnect <Peer connectivity>] terminal provider|consumer terminal provider|consumer copyservice <WORD> connector <WORD>

**Description:** Configure copy node and connector

**Syntax:**

|                          |  |
|--------------------------|--|
| <i>WORD</i>              | Connection name (Max Size 64)                                  |
| <i>Peer connectivity</i> | (Optional) Configure connectivity to peer                      |
| provider                 | Provider terminal  |
| consumer                 | Consumer terminal  |
| provider                 | Provider terminal  |
| consumer                 | Consumer terminal  |
| <i>WORD</i>              | service node name (Max Size 64)                                |
| connector                | Connector on the service node that connects to a terminal node |
| <i>WORD</i>              | connector name (Max Size 64)                                   |

**Command Mode:** l4l7 graph : Configure L4-L7 Service Graph

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# l4l7 graph <WORD> [contract <contract-option>]
(config-graph)# connection <WORD> [peerconnect <Peer connectivity>] terminal provider|consumer
terminal provider|consumer copyservice <WORD> connector <WORD>
```



# connector

**connector** <WORD> [**cluster-interface** <WORD>]

**Description:** Configure Connector for a Service Node

**Syntax:**

|      |   |
|------|---|
| WORD | Connector name (Max Size 64)                    |
| WORD | (Optional) Cluster Interface name (Max Size 16) |

**Command Mode:** service : Configure L4-L7 Service

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# 1417 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>]
```

# console

**console** [**severity severity <severity-value>**] [**format <format>**]

**Description:** Enable the logging to console (switches only)

**Syntax:**

|   |  |
|---|--|
| <i>severity</i> < <i>severity-value</i> > | (Optional) The severity level for the logs |
| <i>format</i>                             | (Optional) The format for the log messages |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# logging server-group <WORD>
(config-logging)# console [severity severity <severity-value>] [format <format>]
```

# consumer

**consumer epg-label <WORD>**

**Description:** Add a consumer EPG label

**Syntax:**

|             |                              |
|-------------|------------------------------|
| epg-label   | EPG label                    |
| <i>WORD</i> | EPG label name (Max Size 64) |

**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)# consumer epg-label <WORD>
```

# consumption

## consumption <consumption>

**Description:** Update consumption value in PoE Node-policy

**Syntax:**

|                    |   |
|--------------------|---|
| <i>consumption</i> | Configure consumption value in PoE Node-policy. Number range from=4000 to=30000 |
|--------------------|---|

**Command Mode:** template power-over-ethernet node-policy : Configure Power Over Ethernet Parameters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template power-over-ethernet node-policy <WORD>
(config-poe-node-pol)# consumption <consumption>
```

## consumption <4000-30000>

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

**Syntax:**

|              |   |
|--------------|---|
| <4000-30000> | Interface 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)# consumption <4000-30000>
```

# contract-id

**contract-id** <WORD>

**Description:** Service contract id of the customer

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | The contract id (Max Size 512) surrounded by quotes |
|-------------|---|

**Command Mode:** destination-profile : Configure destination profile Parameters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# callhome common
(config-callhome)# destination-profile
(config-callhome-destnprof)# contract-id <WORD>
```

**contract-id** <WORD>

**Description:** Service contract id of the customer

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | The contract id (Max Size 512) surrounded by quotes |
|-------------|---|

**Command Mode:** destination-profile : Configure destination profile Parameters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# smartcallhome common
(config-smartcallhome)# destination-profile
(config-callhome-destnprof)# contract-id <WORD>
```

# contract

**contract** <WORD> [type <type>]

**Description:** Configure binary contracts between Application EPGs

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the contract to create (Max Size 64)                                  |
| <i>type</i> | (Optional) whitelist (permit) or blacklist(deny) or oob-mgmt type of contract |

**Command Mode:** tenant : Tenant configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# contract <WORD> [type <type>]
```

# contract consumer

**contract consumer <WORD> [qos-class <WORD>]**

**Description:** Add the supplied contract to be consumed by any AEPg on this VRF

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Whitelist contract to consume (Max Size 64) |
| <i>WORD</i> | (Optional) Qos Level                        |

**Command Mode:** vrf : Configuration for vrf

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# vrf context <WORD>
(config-tenant-vrf)# contract consumer <WORD> [qos-class <WORD>]
```

**contract consumer <WORD> [imported] [label <WORD>] [qos-class <WORD>]**

**Description:** Add a contract consumed by this AEPg, along with an optional list of subject labels

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Whitelist contract to consume (Max Size 64)               |
| imported    | (Optional) used for contracts imported from other tenants |
| <i>WORD</i> | (Optional) Per-Contract label (Max Size 64)               |
| <i>WORD</i> | (Optional) Qos Level                                      |

**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)# contract consumer <WORD> [imported] [label <WORD>] [qos-class <WORD>]
```

**contract consumer <contractName> [imported] [label <WORD>]**

**Description:** Add a contract consumed by this EPG, along with an optional list of subject labels

**Syntax:**

|                |                               |
|----------------|-------------------------------|
| <contractName> | Whitelist contract to consume |
|----------------|-------------------------------|

|             |   |
|-------------|---|
| imported    | (Optional) Used for contracts imported from other tenants |
| <i>WORD</i> | (Optional) Per-Contract label (Max Size 64)               |

**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)# contract consumer <contractName> [imported] [label <WORD>]
```

**contract consumer <WORD> [imported] [label <WORD>]**

**Description:** Add a contract consumed by this In-band Epg, along with an optional list of subject labels

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Whitelist contract to consume (Max Size 64)               |
| imported    | (Optional) used for contracts imported from other tenants |
| <i>WORD</i> | (Optional) Per-Contract label (Max Size 64)               |

**Command Mode:** inband-mgmt : Enter Inside In-band management mode to modify inband properties or create new inband

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# inband-mgmt epg <WORD>
(config-inb-epg)# contract consumer <WORD> [imported] [label <WORD>]
```

**contract consumer <WORD> [imported] [label <WORD>] [qos-class <WORD>]**

**Description:** Add a contract consumed by this EPG, along with an optional list of subject labels

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Whitelist contract to consume (Max Size 64)               |
| imported    | (Optional) used for contracts imported from other tenants |
| <i>WORD</i> | (Optional) Per-Contract label (Max Size 64)               |
| <i>WORD</i> | (Optional) Qos Level                                      |

**Command Mode:** external-l2 : L2 external EPG creation/configuration

**Command Path:**

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



```
(config-tenant)# external-l2 epg <WORD>
(config-tenant-l2ext-epg)# contract consumer <WORD> [imported] [label <WORD>] [qos-class
<WORD>]
```

**contract consumer <WORD> [imported]****Description:** Add a consumer contract**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Whitelist contract to consume                             |
| imported    | (Optional) Used for contracts imported from other tenants |

**Command Mode:** match prefix-list : Match entries of a prefix-list**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]
(config-leaf-vrf-route-map-match)# contract consumer <WORD> [imported]
```

**contract consumer <WORD> [imported]****Description:** Add a consumer contract**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Whitelist contract to consume                             |
| imported    | (Optional) Used for contracts imported from other tenants |

**Command Mode:** match prefix-list : Match entries of a prefix-list**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]
(config-leaf-vrf-route-map-match)# contract consumer <WORD> [imported]
```

# contract deny

## contract deny <WORD>

**Description:** Attach a taboo contract to this AEPg

### Syntax:

|             |  |
|-------------|--|
| <i>WORD</i> | Name of the blacklist contract (Max Size 64) |
|-------------|--|

**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)# contract deny <WORD>
```

## contract deny <contractName>

**Description:** Attach a taboo contract to this EPG

### Syntax:

|                |                                |
|----------------|--------------------------------|
| <contractName> | Name of the blacklist contract |
|----------------|--------------------------------|

**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)# contract deny <contractName>
```

## contract deny <contractName>

**Description:** Attach a taboo contract to this InBand Epg

### Syntax:

|                |                                |
|----------------|--------------------------------|
| <contractName> | Name of the blacklist contract |
|----------------|--------------------------------|

**Command Mode:** inband-mgmt : Enter Inside In-band management mode to modify inband properties or create new inband

### Command Path:

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

```
(config-inb-epg)# contract deny <contractName>
```

**contract deny <WORD>**

**Description:** Attach a taboo contract to this EPG

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Name of the blacklist contract (Max Size 64) |
|-------------|--|

**Command Mode:** external-l2 : L2 external EPG creation/configuration

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# external-l2 epg <WORD>
(config-tenant-l2ext-epg)# contract deny <WORD>
```

# contract enforce

**contract enforce [ingress] [egress]**

**Description:** Add a policy enforcement

**Syntax:**

|         |   |
|---------|---|
| ingress | (Optional) Policy will be applied at the Ingress Node |
| egress  | (Optional) Policy will be applied at the Egress Node  |

**Command Mode:** vrf : Configuration for vrf

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# vrf context <WORD>
(config-tenant-vrf)# contract enforce [ingress] [egress]
```

## contract intra-epg

**contract intra-epg <WORD>**

**Description:** Contract for controlling Intra-EPG traffic

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Whitelist contract to apply (Max Size 64) |
|-------------|---|

**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)# contract intra-epg <WORD>
```

# contract provider

**contract provider <WORD> [qos-class <WORD>]**

**Description:** Add the supplied contract to be provided by any AEPg on this VRF

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Whitelist contract provided (Max Size 64) |
| <i>WORD</i> | (Optional) Qos Level                      |

**Command Mode:** vrf : Configuration for vrf

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# vrf context <WORD>
(config-tenant-vrf)# contract provider <WORD> [qos-class <WORD>]
```

**contract provider <WORD> [label <WORD>] [qos-class <WORD>]**

**Description:** Contract provided by this AEPg, along with an optional list of subject labels

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Whitelist contract to provide (Max Size 64) |
| <i>WORD</i> | (Optional) Per-Contract label (Max Size 64) |
| <i>WORD</i> | (Optional) Qos Level                        |

**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)# contract provider <WORD> [label <WORD>] [qos-class <WORD>]
```

**contract provider <contractName> [label <WORD>]**

**Description:** Add a contract provided by this EPG, along with an optional list of subject labels

**Syntax:**

|                |   |
|----------------|---|
| <contractName> | Whitelist contract to provide               |
| <i>WORD</i>    | (Optional) Per-Contract label (Max Size 64) |

**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)# contract provider <contractName> [label <WORD>]
```

**contract provider <contractName> [label <label>]**

**Description:** Add a contract provided by this AEPg, along with an optional list of subject labels

**Syntax:**

|                             |                       |
|-----------------------------|-----------------------|
| <i>&lt;contractName&gt;</i> | link to contract name |
| <i>label</i>                | (Optional)            |

**Command Mode:** inband-mgmt : Enter Inside In-band management mode to modify inband properties or create new inband

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# inband-mgmt epg <WORD>
(config-inb-epg)# contract provider <contractName> [label <label>]
```

**contract provider <WORD> [label <WORD>] [qos-class <WORD>]**

**Description:** Add a contract provided by this EPG, along with an optional list of subject labels

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Whitelist contract to provide (Max Size 64) |
| <i>WORD</i> | (Optional) Per-Contract label (Max Size 64) |
| <i>WORD</i> | (Optional) Qos Level                        |

**Command Mode:** external-l2 : L2 external EPG creation/configuration

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# external-l2 epg <WORD>
(config-tenant-l2ext-epg)# contract provider <WORD> [label <WORD>] [qos-class <WORD>]
```

**contract provider <contractName>**

**Description:** Add a contract provided by this AEPg, along with an optional list of subject labels

**Syntax:**

|                             |                                     |
|-----------------------------|-------------------------------------|
| <i>&lt;contractName&gt;</i> | Name of the contract to be provided |
|-----------------------------|-------------------------------------|

**Command Mode:** oob-mgmt : Creates/Modify the out of band mgmt under the tenant mgmt

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# oob-mgmt epg <epgval>
(config-oob-epg)# contract provider <contractName>
```

**contract provider <WORD>**

**Description:** Add a provider contract

**Syntax:**

|             |                               |
|-------------|-------------------------------|
| <i>WORD</i> | Whitelist contract to provide |
|-------------|-------------------------------|

**Command Mode:** match prefix-list : Match entries of a prefix-list

**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]
(config-leaf-vrf-route-map-match)# contract provider <WORD>
```

**contract provider <WORD>**

**Description:** Add a provider contract

**Syntax:**

|             |                               |
|-------------|-------------------------------|
| <i>WORD</i> | Whitelist contract to provide |
|-------------|-------------------------------|

**Command Mode:** match prefix-list : Match entries of a prefix-list

**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]
(config-leaf-vrf-route-map-match)# contract provider <WORD>
```



# control-plane-policing-prefilter

**control-plane-policing-prefilter <arg>**

**Description:** Add leaf ACL policy

**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)# control-plane-policing-prefilter <>
```

**control-plane-policing-prefilter <arg>**

**Description:** Add spine ACL policy

**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)# control-plane-policing-prefilter <>
```

# controller-group

## **controller-group**

**Description:** Controller Upgrade Configuration Mode

**Command Mode:** firmware : Firmware upgrade configuration Mode

### **Command Path:**

```
# configure [['terminal', 't']]
(config)# firmware
(config-firmware)# controller-group
```

# controller

**controller**

**Description:** Configure Controller Node

**Syntax:**

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

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# controller
```

# coop-fabric

**coop-fabric**

**Description:** Council Of Oracles Protocol (COOP)

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]  
(config)# coop-fabric
```

# coop

## coop fabric

**Description:** COOP protocol

**Syntax:**

|        |                           |
|--------|---------------------------|
| fabric | Fabric COOP configuration |
|--------|---------------------------|

**Command Mode:** pod : Pod configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# pod <NUMBER>
(config-pod)# coop fabric
```

## copp-aggr

**copp-aggr <arg>**

**Description:** Add CoPP aggregate policy

**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)# copp-aggr <>
```

**copp-aggr <arg>**

**Description:** Add CoPP aggregate policy

**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)# copp-aggr <>
```

# cos enable

## cos enable

**Description:** Enable Cos Marking

**Command Mode:** vmware-domain : Associate EPG to a VMWare Domain

### Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# application <WORD>
(config-tenant-app)# epg <WORD> [type <WORD>]
(config-tenant-app-epg)# vmware-domain member <WORD> [encap <WORD>] [primary-encap <WORD>]
[allow-micro-segmentation] [deploy <WORD>] [push <WORD>] [binding-type
staticBinding|dynamicBinding|ephemeral] [port-allocation fixed|elastic] [num-ports <WORD>]
[delimiter <WORD>]
(config-tenant-app-epg-domain)# cos enable
```

# cos value

**cos value <num>**

**Description:** CoS value <0-7>

**Syntax:**

|            |  |
|------------|--|
| <i>num</i> | Class of Service. Number range from=0 to=7 |
|------------|--|

**Command Mode:** vmware-domain : Associate EPG to a VMWare Domain

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# application <WORD>
(config-tenant-app)# epg <WORD> [type <WORD>]
(config-tenant-app-epg)# vmware-domain member <WORD> [encap <WORD>] [primary-encap <WORD>]
[allow-micro-segmentation] [deploy <WORD>] [push <WORD>] [binding-type
staticBinding|dynamicBinding|ephemeral] [port-allocation fixed|elastic] [num-ports <WORD>]
[delimiter <WORD>]
(config-tenant-app-epg-domain)# cos value <num>
```



# cost

## cost <NUMBER>

**Description:** Set OSPF cost for the interface

**Syntax:**

|           |   |
|-----------|---|
| <0-65535> | OSPF cost. Number range from=0 to=65535 |
|-----------|---|

**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)# cost <NUMBER>
```

## cost <NUMBER>

**Description:** Set OSPF cost for the interface

**Syntax:**

|           |   |
|-----------|---|
| <0-65535> | OSPF cost. Number range from=0 to=65535 |
|-----------|---|

**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)# cost <NUMBER>
```

# country

**country** <WORD>

**Description:** Set The two-letter ISO code for the country where the organization is located.

**Syntax:**

|        |   |
|--------|---|
| <WORD> | The two-letter ISO code for the country where the organization is located |
|--------|---|

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

**Command Path:**

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

# crypto aes

**crypto aes**

**Description:** AES encryption configuration

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]  
(config)# crypto aes
```

# crypto ca

**crypto ca** <WORD>

**Description:** Configure certificate authority related information

**Syntax:**

|             |                                |
|-------------|--------------------------------|
| <i>WORD</i> | Trustpoint label (Max Size 64) |
|-------------|--------------------------------|

**Command Mode:** configure : Configuration Mode

**Command Path:**

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

# crypto keyring

**crypto keyring <WORD>**

**Description:** A keyring mode to create and hold an SSL certificate

**Syntax:**

|             |                        |
|-------------|------------------------|
| <i>WORD</i> | Provide a keyring name |
|-------------|------------------------|

**Command Mode:** configure : Configuration Mode

**Command Path:**

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

# crypto webtoken

## crypto webtoken

**Description:** The cryptographic data used for generating and verifying web tokens.

**Command Mode:** configure : Configuration Mode

### Command Path:

```
# configure [['terminal', 't']]  
(config)# crypto webtoken
```

# csr

**csr**

**Description:** A csr mode to create and hold an SSL certificate

**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)# csr
```

# customer-id

**customer-id <WORD>**

**Description:** The customer id

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | The customer id (Max Size 512) surrounded by quotes |
|-------------|---|

**Command Mode:** destination-profile : Configure destination profile Parameters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# callhome common
(config-callhome)# destination-profile
(config-callhome-destnprof)# customer-id <WORD>
```

**customer-id <WORD>**

**Description:** The customer id

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | The customer id (Max Size 512) surrounded by quotes |
|-------------|---|

**Command Mode:** destination-profile : Configure destination profile Parameters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# smartcallhome common
(config-smartcallhome)# destination-profile
(config-callhome-destnprof)# customer-id <WORD>
```





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# data

## data <LINE>

**Description:** Set A user public key in PEM format.

### Syntax:

|             |   |
|-------------|---|
| <i>LINE</i> | user public key in PEM format in quotes (Max Size None) |
|-------------|---|

**Command Mode:** ssh-key : Update ssh key for the user for ssh authentication

### Command Path:

```
# configure [['terminal', 't']]
(config)# username <WORD>
(config-username)# ssh-key <WORD>
(config-ssh-key)# data <LINE>
```

## data <CERTIFICATE>

**Description:** Set PEM encoded certificate

### Syntax:

|                    |                                   |
|--------------------|-----------------------------------|
| <i>CERTIFICATE</i> | PEM encoded certificate in quotes |
|--------------------|-----------------------------------|

**Command Mode:** certificate : Create AAA user certificate in X.509 format.

### Command Path:

```
# configure [['terminal', 't']]
(config)# username <WORD>
(config-username)# certificate <WORD>
(config-certificate)# data <CERTIFICATE>
```

# dead-interval

**dead-interval** <NUMBER>

**Description:** Dead interval

**Syntax:**

|           |   |
|-----------|---|
| <1-65535> | Interval in seconds. Number range from=1 to=65535 |
|-----------|---|

**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)# dead-interval <NUMBER>
```

**dead-interval** <NUMBER>

**Description:** Dead interval

**Syntax:**

|           |   |
|-----------|---|
| <1-65535> | Interval in seconds. Number range from=1 to=65535 |
|-----------|---|

**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)# dead-interval <NUMBER>
```

# debug-switch

**debug-switch <NUMBER>**

**Description:** Turn on debug mode for switch

**Syntax:**

|                               |  |
|-------------------------------|--|
| <code>&lt;101-4000&gt;</code> | Node ID. Number range from=101 to=4000 |
|-------------------------------|--|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# debug-switch <NUMBER>
```

# debug log reset

**debug <node-name> <process> log reset**

**Description:** Reset the log levels to default log level

**Syntax:**

|                          |              |
|--------------------------|--------------|
| <i>&lt;node-name&gt;</i> | Node name    |
| <i>&lt;process&gt;</i>   | Process name |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# debug <node-name> <process> log reset
```

# debug log set

**debug <node-name> <process> log set <topic> <level>**

**Description:** Set log level for a topic

**Syntax:**

|                          |              |
|--------------------------|--------------|
| <i>&lt;node-name&gt;</i> | Node name    |
| <i>&lt;process&gt;</i>   | Process name |
| <i>&lt;topic&gt;</i>     | Topic name   |
| <i>&lt;level&gt;</i>     | Level name   |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# debug <node-name> <process> log set <topic> <level>
```

# decommission controller

**decommission controller** <NUMBER>

**Description:** Decommission controller

**Syntax:**

|        |  |
|--------|--|
| <1-64> | Controller ID. Number range from=1 to=64 |
|--------|--|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]  
(config)# decommission controller <NUMBER>
```



# decommission switch

**decommission switch** <NUMBER> [remove-from-controller] [pod <NUMBER>]

**Description:** Decommission switch

**Syntax:**

|                        |   |
|------------------------|---|
| <101-4000>             | Node ID. Number range from=101 to=4000                  |
| remove-from-controller | (Optional) Remove the switch from controller (optional) |
| NUMBER                 | (Optional) Pod ID. Number range from=1 to=10            |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# decommission switch <NUMBER> [remove-from-controller] [pod <NUMBER>]
```

# default-information

## default-information originate [always]

**Description:** Control origination of a default route

**Syntax:**

|           |   |
|-----------|---|
| originate | Originate a default route                 |
| always    | (Optional) Always advertise default route |

**Command Mode:** vrf : Configure VRF information

**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)# default-information originate [always]
```

## default-information originate [always]

**Description:** Control origination of a default route

**Syntax:**

|           |   |
|-----------|---|
| originate | Originate a default route                 |
| always    | (Optional) Always advertise default route |

**Command Mode:** vrf : Associate Router OSPF Policy with Tenant/VRF

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# router ospf default|multipod-internal
(config-leaf-ospf)# vrf member tenant <WORD> vrf <WORD>
(config-leaf-ospf-vrf)# default-information originate [always]
```

## default-information originate [always]

**Description:** Control origination of a default route

**Syntax:**

|           |   |
|-----------|---|
| originate | Originate a default route                 |
| always    | (Optional) Always advertise default route |

**Command Mode:** vrf : Configure VRF information

**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)# default-information originate [always]
```

**default-information originate [always]**

**Description:** Control origination of a default route

**Syntax:**

|           |   |
|-----------|---|
| originate | Originate a default route                 |
| always    | (Optional) Always advertise default route |

**Command Mode:** vrf : Associate Router OSPF Policy with Tenant/VRF

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# router ospf default|multipod-internal
(config-leaf-ospf)# vrf member tenant <WORD> vrf <WORD>
(config-leaf-ospf-vrf)# default-information originate [always]
```

# default-originate

## default-originate

**Description:** Originate a default toward this peer

**Command Mode:** neighbor : Configure a BGP neighbor

### 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)# default-originate
```

## default-originate

**Description:** Originate a default toward this peer

**Command Mode:** neighbor : Configure a BGP neighbor

### 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)# default-originate
```

# delay

## delay minimum|reload <NUMBER>

**Description:** HSRP initialization delay

**Syntax:**

|           |  |
|-----------|--|
| minimum   | Minimum delay                                  |
| reload    | Delay after reload                             |
| <0-10000> | Delay in seconds. Number range from=0 to=10000 |

**Command Mode:** template hsrp interface-policy : Configure HSRP Interface policy templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template hsrp interface-policy <WORD> tenant <WORD>
(config-template-hsrp-if-pol)# delay minimum|reload <NUMBER>
```

## delay minimum|reload <NUMBER>

**Description:** HSRP initialization delay

**Syntax:**

|           |  |
|-----------|--|
| minimum   | Minimum delay                                  |
| reload    | Delay after reload                             |
| <0-10000> | Delay in seconds. Number range from=0 to=10000 |

**Command Mode:** template hsrp interface-policy : Configure HSRP Interface policy templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# template hsrp interface-policy <WORD> tenant <WORD>
(config-template-hsrp-if-pol)# delay minimum|reload <NUMBER>
```

# deny-mode

## deny-mode

**Description:** WhiteList or BlackList mode for EPG

**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)# deny-mode
```

## deny-mode

**Description:** WhiteList or BlackList mode for EPG

**Command Mode:** external-l2 : L2 external EPG creation/configuration

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# external-l2 epg <WORD>
(config-tenant-l2ext-epg)# deny-mode
```

# deploy-epg tenant application epg qinq

**deploy-epg tenant <WORD> application <WORD> epg <WORD> qinq outer-vlan <NUMBER> inner-vlan <NUMBER>**

**Description:** Deploy regular AEPg on leaf with qinq(double encap)

**Syntax:**

|             |   |
|-------------|---|
| tenant      | Tenant hosting the AEPg to deploy                         |
| WORD        | Tenant hosting the AEPg to deploy (Max Size 63)           |
| application | Application hosting the AEPg to deploy                    |
| WORD        | Application Name (Max Size 64)                            |
| epg         | AEPg to be deployed on the leaf                           |
| WORD        | EPg that uses the statically enabled Encap. (Max Size 64) |
| outer-vlan  | Encapsulation Outer Vlan                                  |
| <1-4094>    | Encapsulation Outer Vlan. Number range from=1 to=4094     |
| inner-vlan  | Encapsulation Inner Vlan                                  |
| <1-4094>    | Encapsulation Inner Vlan. Number range from=1 to=4094     |

**Command Mode:** leaf : Configure Leaf Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# deploy-epg tenant <WORD> application <WORD> epg <WORD> qinq outer-vlan
<NUMBER> inner-vlan <NUMBER>
```

**deploy-epg tenant <WORD> application <WORD> epg <WORD> qinq outer-vlan <NUMBER> inner-vlan <NUMBER>**

**Description:** Deploy regular AEPg on leaf with qinq(double encap)

**Syntax:**

|             |   |
|-------------|---|
| tenant      | Tenant hosting the AEPg to deploy               |
| WORD        | Tenant hosting the AEPg to deploy (Max Size 63) |
| application | Application hosting the AEPg to deploy          |
| WORD        | Application Name (Max Size 64)                  |
| epg         | AEPg to be deployed on the leaf                 |

|             |   |
|-------------|---|
| <i>WORD</i> | EPg that uses the statically enabled Encap. (Max Size 64) |
| outer-vlan  | Encapsulation Outer Vlan                                  |
| <1-4094>    | Encapsulation Outer Vlan. Number range from=1 to=4094     |
| inner-vlan  | Encapsulation Inner Vlan                                  |
| <1-4094>    | Encapsulation Inner Vlan. Number range from=1 to=4094     |

**Command Mode:** spine : Configure Spine Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# deploy-epg tenant <WORD> application <WORD> epg <WORD> qinq outer-vlan
<NUMBER> inner-vlan <NUMBER>
```



# deploy-epg tenant application epg type

**deploy-epg tenant <WORD> application <WORD> epg <WORD> type micro-segmented**

**Description:** Deploy micro-segmented AEPg on leaf

**Syntax:**

|                 |   |
|-----------------|---|
| tenant          | Tenant hosting the AEPg to deploy                         |
| <i>WORD</i>     | Tenant hosting the AEPg to deploy (Max Size 63)           |
| application     | Application hosting the AEPg to deploy                    |
| <i>WORD</i>     | Application Name (Max Size 64)                            |
| epg             | AEPg to be deployed on the leaf                           |
| <i>WORD</i>     | EPg that uses the statically enabled Encap. (Max Size 64) |
| micro-segmented | micro-segmented AEPg                                      |

**Command Mode:** leaf : Configure Leaf Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# deploy-epg tenant <WORD> application <WORD> epg <WORD> type micro-segmented
```

**deploy-epg tenant <WORD> application <WORD> epg <WORD> type micro-segmented**

**Description:** Deploy micro-segmented AEPg on leaf

**Syntax:**

|                 |   |
|-----------------|---|
| tenant          | Tenant hosting the AEPg to deploy                         |
| <i>WORD</i>     | Tenant hosting the AEPg to deploy (Max Size 63)           |
| application     | Application hosting the AEPg to deploy                    |
| <i>WORD</i>     | Application Name (Max Size 64)                            |
| epg             | AEPg to be deployed on the leaf                           |
| <i>WORD</i>     | EPg that uses the statically enabled Encap. (Max Size 64) |
| micro-segmented | micro-segmented AEPg                                      |

**Command Mode:** spine : Configure Spine Node

**Command Path:**

**deploy-epg tenant application epg type**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# deploy-epg tenant <WORD> application <WORD> epg <WORD> type micro-segmented
```

# deploy-epg tenant application epg vlan

**deploy-epg tenant <WORD> application <WORD> epg <WORD> vlan <NUMBER> vlan-domain member <WORD>**

**Description:** Deploy regular AEPg on leaf

**Syntax:**

|             |  |
|-------------|--|
| tenant      | Tenant hosting the AEPg to deploy                                |
| WORD        | Tenant hosting the AEPg to deploy (Max Size 63)                  |
| application | Application hosting the AEPg to deploy                           |
| WORD        | Application Name (Max Size 64)                                   |
| epg         | AEPg to be deployed on the leaf                                  |
| WORD        | EPg that uses the statically enabled Encap. (Max Size 64)        |
| <1-4094>    | Encapsulation Vlan. Number range from=1 to=4094                  |
| vlan-domain | Vlan Domain for Encapsulation Vlan                               |
| member      | Vlan Domain for Encapsulation Vlan                               |
| WORD        | vlan-domain to use to validate encapsulation vlan. (Max Size 64) |

**Command Mode:** leaf : Configure Leaf Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# deploy-epg tenant <WORD> application <WORD> epg <WORD> vlan <NUMBER>
vlan-domain member <WORD>
```

**deploy-epg tenant <WORD> application <WORD> epg <WORD> vlan <NUMBER> vlan-domain member <WORD>**

**Description:** Deploy regular AEPg on leaf

**Syntax:**

|             |   |
|-------------|---|
| tenant      | Tenant hosting the AEPg to deploy               |
| WORD        | Tenant hosting the AEPg to deploy (Max Size 63) |
| application | Application hosting the AEPg to deploy          |
| WORD        | Application Name (Max Size 64)                  |
| epg         | AEPg to be deployed on the leaf                 |

|             |  |
|-------------|--|
| <i>WORD</i> | EPg that uses the statically enabled Encap. (Max Size 64)        |
| <1-4094>    | Encapsulation Vlan. Number range from=1 to=4094                  |
| vlan-domain | Vlan Domain for Encapsulation Vlan                               |
| member      | Vlan Domain for Encapsulation Vlan                               |
| <i>WORD</i> | vlan-domain to use to validate encapsulation vlan. (Max Size 64) |

**Command Mode:** spine : Configure Spine Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# deploy-epg tenant <WORD> application <WORD> epg <WORD> vlan <NUMBER>
vlan-domain member <WORD>
```

# deployment-mode

**deployment-mode** <WORD>

**Description:** Set zone deployment mode

**Syntax:**

|             |                      |
|-------------|----------------------|
| <i>WORD</i> | Zone Deployment Mode |
|-------------|----------------------|

**Command Mode:** zone : Create zone policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# zones
(config-zones)# zone <WORD>
(config-zone)# deployment-mode <WORD>
```

# descr

## descr <WORD>

**Description:** RADIUS server descr for authentication

**Syntax:**

|        |   |
|--------|---|
| <WORD> | descr for authentication (Max Size 128) |
|--------|---|

**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)# descr <WORD>
```

## descr <WORD>

**Description:** RSA server descr for authentication

**Syntax:**

|        |   |
|--------|---|
| <WORD> | descr for authentication (Max Size 128) |
|--------|---|

**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)# descr <WORD>
```

# description

## description <description>

**Description:** Add a description to a power supply redundancy policy

**Syntax:**

|                            |   |
|----------------------------|---|
| <i>&lt;description&gt;</i> | Power supply redundancy policy description string |
|----------------------------|---|

**Command Mode:** power : Create a power supply redundancy policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# power redundancy-policy <WORD>
(config-power)# description <description>
```

## description <LINE>

**Description:** Set description

**Syntax:**

|             |  |
|-------------|--|
| <i>LINE</i> | Set description, use single quotes with spaces ex: 'my descr' (Max Size 128) |
|-------------|--|

**Command Mode:** rbac security-domain : Create AAA security domain for processing authentication requests.

**Command Path:**

```
# configure [['terminal', 't']]
(config)# rbac security-domain <WORD>
(config-security-domain)# description <LINE>
```

## description <WORD>

**Description:** The description of callhome destination-profile

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | The description (Max Size 128) surrounded by single quotes |
|-------------|--|

**Command Mode:** destination-profile : Configure destination profile Parameters

**Command Path:**

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

**description <WORD>****Description:** The description of callhome destination-profile**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | The description (Max Size 128) surrounded by single quotes |
|-------------|--|

**Command Mode:** destination-profile : Configure destination profile Parameters**Command Path:**

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

**description <WORD>****Description:** Add switch-group description**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Description string, surrounded by single quotes if with spaces ex: 'My descr' (Max Size 128) |
|-------------|--|

**Command Mode:** switch-group : Create switch firmware upgrade policy**Command Path:**

```
# configure [['terminal', 't']]
(config)# firmware
(config-firmware)# switch-group <WORD>
(config-firmware-switch)# description <WORD>
```

**description <STRING>****Description:** Configure remote path description**Syntax:**

|               |             |
|---------------|-------------|
| <i>STRING</i> | Description |
|---------------|-------------|

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

```
# configure [['terminal', 't']]
(config)# remote path <WORD>
(config-remote)# description <STRING>
```

**description <STRING>****Description:** Configure description for the active ntp policy



**Syntax:**

|               |             |
|---------------|-------------|
| <i>STRING</i> | Description |
|---------------|-------------|

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

**Command Path:**

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

**description <STRING>**

**Description:** Configure STP description

**Syntax:**

|               |             |
|---------------|-------------|
| <i>STRING</i> | Description |
|---------------|-------------|

**Command Mode:** region : STP MST region configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spanning-tree mst configuration
(config-stp)# region <WORD>
(config-stp-region)# description <STRING>
```

**description <WORD>**

**Description:** Add description for Cloudsec Policy

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Description string, surrounded by single quotes if with spaces ex: 'My descr' (Max Size 128) |
|-------------|--|

**Command Mode:** template cloudsec : Configure cloudsec Policies

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template cloudsec <WORD>
(config-cloudsec)# description <WORD>
```

**description <WORD>**

**Description:** Description string, surrounded by single quotes if with spaces ex: 'My descr'

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Description string, surrounded by single quotes if with spaces ex: 'My descr' (Max Size 128) |
|-------------|--|

**Command Mode:** template dhcp relay : Create a DHCP Relay policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template dhcp relay policy <WORD>
(config-template-dhcp-relay)# description <WORD>
```

**description <description>**

**Description:** Update FC Policy-Group Template description

**Syntax:**

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

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

**Command Path:**

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

**description <WORD>**

**Description:** Add fc-fabric-policy description

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Description string, surrounded by single quotes if with spaces ex: 'My descr' (Max Size 128) |
|-------------|--|

**Command Mode:** template fc-fabric-policy : Configure FC Fabric Policy(Max Size 64)

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template fc-fabric-policy <WORD>
(config-fc-fabric-policy)# description <WORD>
```

**description <description>**

**Description:** Update FC leaf policy description

**Syntax:**

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

**Command Mode:** template fc-leaf-policy : Configure FC Leaf Policy(Max Size 64)

**Command Path:**

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

```
(config-fc-leaf-policy)# description <description>
```

### description <WORD>

**Description:** Add MAC security key chain description

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Description string, surrounded by single quotes if with spaces ex: 'My descr' (Max Size 128) |
|-------------|--|

**Command Mode:** template macsec access|fabric keychain : Configure macsec key chain

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template macsec access|fabric keychain <WORD>
(config-macsec-keychain)# description <WORD>
```

### description <WORD>

**Description:** Add MAC security policy description

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Description string, surrounded by single quotes if with spaces ex: 'My descr' (Max Size 128) |
|-------------|--|

**Command Mode:** template macsec access|fabric security-policy : Configure MAC security policy parameters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template macsec access|fabric security-policy <WORD>
(config-macsec-param)# description <WORD>
```

### description <STRING>

**Description:** Configure description for the active ntp policy

**Syntax:**

|               |             |
|---------------|-------------|
| <i>STRING</i> | Description |
|---------------|-------------|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template ntp-fabric <WORD>
(config-template-ntp-fabric)# description <STRING>
```

**description <description>****Description:** Update Policy-Group Template description**Syntax:**

|                            |  |
|----------------------------|--|
| <i>&lt;description&gt;</i> |  |
|----------------------------|--|

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

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

**description <description>****Description:** Update Port-Channel Template description**Syntax:**

|                            |  |
|----------------------------|--|
| <i>&lt;description&gt;</i> |  |
|----------------------------|--|

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

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

**description <description>****Description:** Update Spine-Interface-Policy-Group Template description**Syntax:**

|                            |  |
|----------------------------|--|
| <i>&lt;description&gt;</i> |  |
|----------------------------|--|

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

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

**description <WORD>****Description:** Add a description string to a tenant, surrounded by single quotes if with spaces ex: 'My descr'**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Description string, surrounded by single quotes if with spaces ex: 'My descr' (Max Size 128) |
|-------------|--|

**Command Mode:** tenant : Tenant configuration mode

**Command Path:**

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

**description <WORD>**

**Description:** Add a description on a contract, surrounded by single quotes if with spaces ex: 'My descr'

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Contract description, surrounded by single quotes if with spaces ex: 'My descr' (Max Size 128) |
|-------------|--|

**Command Mode:** contract : Configure binary contracts between Application EPGs

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# contract <WORD> [type <type>]
(config-tenant-contract)# description <WORD>
```

**description <WORD>**

**Description:** Add a description on a subject, surrounded by single quotes if with spaces ex: 'My descr'

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Subject description, surrounded by single quotes if with spaces ex: 'My descr' (Max Size 128) |
|-------------|---|

**Command Mode:** subject : Configuration a subject on the contract

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# contract <WORD> [type <type>]
(config-tenant-contract)# subject <WORD>
(config-tenant-contract-subj)# description <WORD>
```

**description <WORD>**

**Description:** Add a description on a vrf, surrounded by single quotes if with spaces ex: 'My descr'

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | VRF description, surrounded by single quotes if with spaces ex: 'My descr' (Max Size 128) |
|-------------|---|

**Command Mode:** vrf : Configuration for vrf

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# vrf context <WORD>
(config-tenant-vrf)# description <WORD>
```

**description <WORD>**

**Description:** Add a description on an application, surrounded by single quotes if with spaces ex: 'My descr'

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Description string, surrounded by single quotes if with spaces ex: 'My descr' (Max Size 128) |
|-------------|--|

**Command Mode:** application : application configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# application <WORD>
(config-tenant-app)# description <WORD>
```

**description <WORD>**

**Description:** Add a description on an epg, surrounded by single quotes if with spaces ex: 'My descr'

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Description string, surrounded by single quotes if with spaces ex: 'My descr' (Max Size 128) |
|-------------|--|

**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)# description <WORD>
```

**description <WORD>**

**Description:** Add a description on an epg, surrounded by single quotes if with spaces ex: 'My descr'

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Description string, surrounded by single quotes if with spaces ex: 'My descr' (Max Size 128) |
|-------------|--|

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

**Command Path:**

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

### description <epgDescr>

**Description:** Add a description on an epg

**Syntax:**

|            |  |
|------------|--|
| <epgDescr> |  |
|------------|--|

**Command Mode:** inband-mgmt : Enter Inside In-band management mode to modify inband properties or create new inband

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# inband-mgmt epg <WORD>
(config-inb-epg)# description <epgDescr>
```

### description <WORD>

**Description:** Add a description on a bridge-domain, surrounded by single quotes if with spaces ex: 'My descr'

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Bridge-domain description, surrounded by single quotes if with spaces ex: 'My descr' (Max Size 128) |
|-------------|---|

**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)# description <WORD>
```

### description <WORD>

**Description:** Add a description on an epg, surrounded by single quotes if with spaces ex: 'My descr'

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Description string, surrounded by single quotes if with spaces ex: 'My descr' (Max Size 128) |
|-------------|--|

**Command Mode:** external-l2 : L2 external EPG creation/configuration

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# external-l2 epg <WORD>
(config-tenant-l2ext-epg)# description <WORD>
```

**description <epgDescr>**

**Description:** Add a description on an epg

**Syntax:**

|            |  |
|------------|--|
| <epgDescr> |  |
|------------|--|

**Command Mode:** oob-mgmt : Creates/Modify the out of band mgmt under the tenant mgmt

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# oob-mgmt epg <epgval>
(config-oob-epg)# description <epgDescr>
```

**description <WORD>**

**Description:** Add a description on a Redirection policy, surrounded by single quotes if with spaces ex: 'My descr'

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Redirection Policy description, surrounded by single quotes if with spaces ex: 'My descr' (Max Size 128) |
|-------------|--|

**Command Mode:** svcredirect-pol : Configure L4L7 service redirection policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# svcredirect-pol <WORD>
(svcredirect-pol)# description <WORD>
```

**description <WORD>**

**Description:** Description string, surrounded by single quotes if with spaces ex: 'My descr'

**Syntax:**



|             |  |
|-------------|--|
| <i>WORD</i> | Description string, surrounded by single quotes if with spaces ex: 'My descr' (Max Size 128) |
|-------------|--|

**Command Mode:** template dhcp relay : Create a DHCP Relay policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template dhcp relay policy <WORD>
(config-tenant-template-dhcp-relay)# description <WORD>
```

**description <LINE>**

**Description:** Update igmp policy description

**Syntax:**

|             |  |
|-------------|--|
| <i>LINE</i> | IGMP policy description, use single quotes with spaces ex: 'my descr' (Max Size 128) |
|-------------|--|

**Command Mode:** template ip igmp interface-policy : Create an IGMP interface policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template ip igmp interface-policy <WORD>
(config-tenant-template-ip-igmp-policy)# description <LINE>
```

**description <LINE>**

**Description:** Update igmp snooping policy description

**Syntax:**

|             |   |
|-------------|---|
| <i>LINE</i> | IGMP snooping policy description, use single quotes with spaces ex: 'my descr' (Max Size 128) |
|-------------|---|

**Command Mode:** template ip igmp snooping policy : Create an IGMP snooping policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template ip igmp snooping policy <WORD>
(config-tenant-template-ip-igmp-snooping)# description <LINE>
```

**description <LINE>**

**Description:** Update Netflow Exporter description

**Syntax:**

|             |   |
|-------------|---|
| <i>LINE</i> | Netflow Exporter description, use single quotes with spaces ex: 'my descr' (Max Size 128) |
|-------------|---|

**Command Mode:** flow exporter : Configure Netflow Exporter

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# flow exporter <WORD> destination address <A.B.C.D or A:B::C:D> transport
udp <dstPort>
(config-tn-flow-exporter)# description <LINE>
```

**description <LINE>**

**Description:** Update Netflow Record description

**Syntax:**

|             |   |
|-------------|---|
| <i>LINE</i> | Netflow Record description, use single quotes with spaces ex: 'my descr' (Max Size 128) |
|-------------|---|

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

**Command Path:**

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

**description <LINE>**

**Description:** Update Netflow Monitor description

**Syntax:**

|             |  |
|-------------|--|
| <i>LINE</i> | Netflow Monitor description, use single quotes with spaces ex: 'my descr' (Max Size 128) |
|-------------|--|

**Command Mode:** flow monitor : Configure Netflow Monitor

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# flow monitor <WORD>
(config-tn-flow-monitor)# description <LINE>
```

**description <LINE>**

**Description:** Update Leaf Profile description

**Syntax:**

|             |  |
|-------------|--|
| <i>LINE</i> | Leaf-Profile description, use single quotes with spaces ex: 'my descr'<br>(Max Size 128) |
|-------------|--|

**Command Mode:** leaf-profile : Configure Leaf Profile

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf-profile <WORD>
(config-leaf-profile)# description <LINE>
```

**description <LINE>**

**Description:** Update Leaf Group description

**Syntax:**

|             |  |
|-------------|--|
| <i>LINE</i> | Leaf-group description, use single quotes with spaces ex: 'my descr'<br>(Max Size 128) |
|-------------|--|

**Command Mode:** leaf-group : Configure Leaf Group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf-profile <WORD>
(config-leaf-profile)# leaf-group <WORD>
(config-leaf-group)# description <LINE>
```

**description <LINE>**

**Description:** Update Leaf Interface Profile description

**Syntax:**

|             |   |
|-------------|---|
| <i>LINE</i> | Leaf-If-Profile description, use single quotes with spaces ex: 'my descr'<br>(Max Size 128) |
|-------------|---|

**Command Mode:** leaf-interface-profile : Create Leaf Interface Profile

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf-interface-profile <WORD>
(config-leaf-if-profile)# description <LINE>
```

**description <LINE>**

**Description:** Update Leaf Interface Group description

**Syntax:**

|             |   |
|-------------|---|
| <i>LINE</i> | Leaf-If-group description, use single quotes with spaces ex: 'my descr'<br>(Max Size 128) |
|-------------|---|

**Command Mode:** leaf-interface-group : Configure Leaf Interface Group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf-interface-profile <WORD>
(config-leaf-if-profile)# leaf-interface-group <WORD>
(config-leaf-if-group)# description <LINE>
```

**description <LINE>**

**Description:** Update Spine Profile description

**Syntax:**

|             |   |
|-------------|---|
| <i>LINE</i> | Spine-Profile description, use single quotes with spaces ex: 'my descr'<br>(Max Size 128) |
|-------------|---|

**Command Mode:** spine-profile : Configure Spine Profile

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine-profile <WORD>
(config-spine-profile)# description <LINE>
```

**description <LINE>**

**Description:** Update Spine Group description

**Syntax:**

|             |   |
|-------------|---|
| <i>LINE</i> | Spine-group description, use single quotes with spaces ex: 'my descr'<br>(Max Size 128) |
|-------------|---|

**Command Mode:** spine-group : Configure Spine Group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine-profile <WORD>
(config-spine-profile)# spine-group <WORD>
(config-spine-group)# description <LINE>
```

**description <LINE>**

**Description:** Update Spine Interface Profile description

**Syntax:**

|             |  |
|-------------|--|
| <i>LINE</i> | Spine-If-Profile description, use single quotes with spaces ex: 'my descr'<br>(Max Size 128) |
|-------------|--|

**Command Mode:** spine-interface-profile : Create Spine Interface Profile

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine-interface-profile <WORD>
(config-spine-if-profile)# description <LINE>
```

**description <LINE>**

**Description:** Update Spine Interface Group description

**Syntax:**

|             |  |
|-------------|--|
| <i>LINE</i> | Spine-If-group description, use single quotes with spaces ex: 'my descr'<br>(Max Size 128) |
|-------------|--|

**Command Mode:** spine-interface-group : Configure Spine Interface Group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine-interface-profile <WORD>
(config-spine-if-profile)# spine-interface-group <WORD>
(config-spine-if-group)# description <LINE>
```

**description <LINE>**

**Description:** Update Fex Profile description

**Syntax:**

|             |   |
|-------------|---|
| <i>LINE</i> | Fex-Profile description, use single quotes with spaces ex: 'my descr'<br>(Max Size 128) |
|-------------|---|

**Command Mode:** fex-profile : Configure Fex Profile

**Command Path:**

```
# configure [['terminal', 't']]
(config)# fex-profile <WORD>
(config-fex-profile)# description <LINE>
```

**description <LINE>**

**Description:** Update Fex Interface Group description

**Syntax:**

|             |  |
|-------------|--|
| <i>LINE</i> | Fex-If-group description, use single quotes with spaces ex: 'my descr'<br>(Max Size 128) |
|-------------|--|

**Command Mode:** fex-interface-group : Configure Fex Interface Group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# fex-profile <WORD>
(config-fex-profile)# fex-interface-group <WORD>
(config-fex-if-group)# description <LINE>
```

**description <LINE>****Description:** Update Leaf Interface Profile description**Syntax:**

|             |   |
|-------------|---|
| <i>LINE</i> | Leaf-If-Profile description, use single quotes with spaces ex: 'my descr'<br>(Max Size 128) |
|-------------|---|

**Command Mode:** leaf-interface-profile : Create Leaf Interface Profile**Command Path:**

```
# configure [['terminal', 't']]
(config)# fabric-internal
(config-fabric-internal)# leaf-interface-profile <WORD>
(config-leaf-if-profile)# description <LINE>
```

**description <LINE>****Description:** Update Leaf Interface Group description**Syntax:**

|             |   |
|-------------|---|
| <i>LINE</i> | Leaf-If-group description, use single quotes with spaces ex: 'my descr'<br>(Max Size 128) |
|-------------|---|

**Command Mode:** leaf-interface-group : Configure Leaf Interface Group**Command Path:**

```
# configure [['terminal', 't']]
(config)# fabric-internal
(config-fabric-internal)# leaf-interface-profile <WORD>
(config-leaf-if-profile)# leaf-interface-group <WORD>
(config-leaf-if-group)# description <LINE>
```

**description <LINE>****Description:** Update Leaf Profile description**Syntax:**

|             |  |
|-------------|--|
| <i>LINE</i> | Leaf-Profile description, use single quotes with spaces ex: 'my descr'<br>(Max Size 128) |
|-------------|--|

**Command Mode:** leaf-profile : Configure Leaf Profile**Command Path:**

```
# configure [['terminal', 't']]
(config)# fabric-internal
(config-fabric-internal)# leaf-profile <WORD>
(config-leaf-profile)# description <LINE>
```

**description <LINE>****Description:** Update Leaf Group description**Syntax:**

|             |  |
|-------------|--|
| <i>LINE</i> | Leaf-group description, use single quotes with spaces ex: 'my descr'<br>(Max Size 128) |
|-------------|--|

**Command Mode:** leaf-group : Configure Leaf Group**Command Path:**

```
# configure [['terminal', 't']]
(config)# fabric-internal
(config-fabric-internal)# leaf-profile <WORD>
(config-leaf-profile)# leaf-group <WORD>
(config-leaf-group)# description <LINE>
```

**description <LINE>****Description:** Update Spine Interface Profile description**Syntax:**

|             |  |
|-------------|--|
| <i>LINE</i> | Spine-If-Profile description, use single quotes with spaces ex: 'my descr'<br>(Max Size 128) |
|-------------|--|

**Command Mode:** spine-interface-profile : Create Spine Interface Profile**Command Path:**

```
# configure [['terminal', 't']]
(config)# fabric-internal
(config-fabric-internal)# spine-interface-profile <WORD>
(config-spine-if-profile)# description <LINE>
```

**description <LINE>****Description:** Update Spine Interface Group description**Syntax:**

|             |  |
|-------------|--|
| <i>LINE</i> | Spine-If-group description, use single quotes with spaces ex: 'my descr'<br>(Max Size 128) |
|-------------|--|

**Command Mode:** spine-interface-group : Configure Spine Interface Group**Command Path:**

```
# configure [['terminal', 't']]
(config)# fabric-internal
(config-fabric-internal)# spine-interface-profile <WORD>
(config-spine-if-profile)# spine-interface-group <WORD>
(config-spine-if-group)# description <LINE>
```

**description <LINE>****Description:** Update Spine Profile description**Syntax:**

|             |   |
|-------------|---|
| <i>LINE</i> | Spine-Profile description, use single quotes with spaces ex: 'my descr'<br>(Max Size 128) |
|-------------|---|

**Command Mode:** spine-profile : Configure Spine Profile**Command Path:**

```
# configure [['terminal', 't']]
(config)# fabric-internal
(config-fabric-internal)# spine-profile <WORD>
(config-spine-profile)# description <LINE>
```

**description <LINE>****Description:** Update Spine Group description**Syntax:**

|             |   |
|-------------|---|
| <i>LINE</i> | Spine-group description, use single quotes with spaces ex: 'my descr'<br>(Max Size 128) |
|-------------|---|

**Command Mode:** spine-group : Configure Spine Group**Command Path:**

```
# configure [['terminal', 't']]
(config)# fabric-internal
(config-fabric-internal)# spine-profile <WORD>
(config-spine-profile)# spine-group <WORD>
(config-spine-group)# description <LINE>
```

**description <LINE>****Description:** Update interface vlan description**Syntax:**

|             |  |
|-------------|--|
| <i>LINE</i> | interface vlan description, use single quotes with spaces ex: 'my descr'<br>(Max Size 128) |
|-------------|--|

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



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

**description <LINE>****Description:** Update Interface description**Syntax:**

|             |  |
|-------------|--|
| <i>LINE</i> | Interface description, use single quotes with spaces ex: 'my descr' (Max Size 128) |
|-------------|--|

**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)# description <LINE>
```

**description <LINE>****Description:** Update Port-Channel description**Syntax:**

|             |   |
|-------------|---|
| <i>LINE</i> | Port-Channel description, use single quotes with spaces ex: 'my descr' (Max Size 128) |
|-------------|---|

**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)# description <LINE>
```

**description <LINE>****Description:** Update interface vlan description**Syntax:**

|             |   |
|-------------|---|
| <i>LINE</i> | interface vlan description, use single quotes with spaces ex: 'my descr' (Max Size 128) |
|-------------|---|

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

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

**description <LINE>****Description:** Update Interface description**Syntax:**

|             |  |
|-------------|--|
| <i>LINE</i> | Interface description, use single quotes with spaces ex: 'my descr' (Max Size 128) |
|-------------|--|

**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)# description <LINE>
```

**description <LINE>****Description:** Update Port-Channel description**Syntax:**

|             |   |
|-------------|---|
| <i>LINE</i> | Port-Channel description, use single quotes with spaces ex: 'my descr' (Max Size 128) |
|-------------|---|

**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)# description <LINE>
```

**description <LINE>****Description:** Update Netflow Exporter description**Syntax:**

|             |   |
|-------------|---|
| <i>LINE</i> | Netflow Exporter description, use single quotes with spaces ex: 'my descr' (Max Size 128) |
|-------------|---|

**Command Mode:** flow exporter : Configure Netflow Exporter**Command Path:**

```
# configure [['terminal', 't']]
(config)# flow exporter <WORD> destination address <A.B.C.D or A:B::C:D> transport udp
<dstPort>
(config-flow-exporter)# description <LINE>
```

**description <LINE>****Description:** Update Netflow Exporter description**Syntax:**

|             |   |
|-------------|---|
| <i>LINE</i> | Netflow Exporter description, use single quotes with spaces ex: 'my descr' (Max Size 128) |
|-------------|---|

**Command Mode:** flow vm-exporter : Configure NetFlow Exporter for VM Networking**Command Path:**

```
# configure [['terminal', 't']]
(config)# flow vm-exporter <WORD> destination address <A.B.C.D or A:B::C:D> transport udp
<dstPort>
(config-flow-vm-exporter)# description <LINE>
```

**description <LINE>****Description:** Update Netflow Record description**Syntax:**

|             |   |
|-------------|---|
| <i>LINE</i> | Netflow Record description, use single quotes with spaces ex: 'my descr' (Max Size 128) |
|-------------|---|

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

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

**description <LINE>****Description:** Update Netflow Monitor description**Syntax:**

|             |  |
|-------------|--|
| <i>LINE</i> | Netflow Monitor description, use single quotes with spaces ex: 'my descr' (Max Size 128) |
|-------------|--|

**Command Mode:** flow monitor : Configure Netflow Monitor**Command Path:**

```
# configure [['terminal', 't']]
```

```
(config)# flow monitor <WORD>
(config-flow-monitor)# description <LINE>
```

**description <LINE>****Description:** Update Netflow Node-policy description**Syntax:**

|             |  |
|-------------|--|
| <i>LINE</i> | Netflow Node-policy description, use single quotes with spaces ex: 'my descr' (Max Size 128) |
|-------------|--|

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

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

**description <LINE>****Description:** Update VPC description**Syntax:**

|             |  |
|-------------|--|
| <i>LINE</i> | VPC description, use single quotes with spaces ex: 'my descr' (Max Size 128) |
|-------------|--|

**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)# description <LINE>
```

**description <LINE>****Description:** Add description to the session**Syntax:**

|             |  |
|-------------|--|
| <i>LINE</i> | Session description, use single quotes with spaces ex: 'my descr' (Max Size 128) |
|-------------|--|

**Command Mode:** monitor access : Configue monitor session for access interfaces**Command Path:**

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

**description <LINE>****Description:** Add description to the session**Syntax:**

|             |  |
|-------------|--|
| <i>LINE</i> | Session description, use single quotes with spaces ex: 'my descr' (Max Size 128) |
|-------------|--|

**Command Mode:** monitor fabric : Configure monitor session for fabric interfaces**Command Path:**

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

**description <LINE>****Description:** Add description to the session**Syntax:**

|             |  |
|-------------|--|
| <i>LINE</i> | Session description, use single quotes with spaces ex: 'my descr' (Max Size 128) |
|-------------|--|

**Command Mode:** monitor tenant : Configure monitor session for tenant EPGs**Command Path:**

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

**description <LINE>****Description:** Add description to the session**Syntax:**

|             |  |
|-------------|--|
| <i>LINE</i> | Session description, use single quotes with spaces ex: 'my descr' (Max Size 128) |
|-------------|--|

**Command Mode:** monitor virtual : Configure monitor session for virtual switches**Command Path:**

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

**description <STRING>****Description:** Configure scheduler description

**Syntax:**

|               |                       |
|---------------|-----------------------|
| <i>STRING</i> | Scheduler description |
|---------------|-----------------------|

**Command Mode:** scheduler : Scheduler configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# scheduler fabric|controller schedule <WORD>
(config-scheduler)# description <STRING>
```

**description <WORD>**

**Description:** Add description for this server-group

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Description (Max Size 128) surrounded by single quotes |
|-------------|--|

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

**Command Path:**

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

**description <WORD>**

**Description:** Add zone description

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Description string, surrounded by single quotes if with spaces ex: 'My descr' (Max Size 128) |
|-------------|--|

**Command Mode:** zone : Create zone policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# zones
(config-zones)# zone <WORD>
(config-zone)# description <WORD>
```

# destination-port

**destination-port** <port>

**Description:** Destination port of this analytics server

**Syntax:**

|             |   |
|-------------|---|
| <i>port</i> | The analytics server destination port. Number range from=0 to=65535 |
|-------------|---|

**Command Mode:** flow-exporter : Configure external analytics reachability information

**Command Path:**

```
# configure [['terminal', 't']]
(config)# analytics cluster <WORD>
(config-analytics)# flow-exporter <WORD>
(config-analytics-cluster-exporter)# destination-port <port>
```

# destination-profile

## destination-profile

**Description:** Configure destination profile Parameters

**Command Mode:** callhome : Callhome common policy configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# callhome common
(config-callhome)# destination-profile
```

## destination-profile

**Description:** Configure destination profile Parameters

**Command Mode:** smartcallhome : Smart Callhome common policy configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# smartcallhome common
(config-smartcallhome)# destination-profile
```



# destination

## destination <WORD>

**Description:** Configure destination Parameters

**Syntax:**

|             |                        |
|-------------|------------------------|
| <i>WORD</i> | The name (Max Size 64) |
|-------------|------------------------|

**Command Mode:** destination-profile : Configure destination profile Parameters

**Command Path:**

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

## destination <WORD>

**Description:** Configure destination Parameters

**Syntax:**

|             |                        |
|-------------|------------------------|
| <i>WORD</i> | The name (Max Size 64) |
|-------------|------------------------|

**Command Mode:** destination-profile : Configure destination profile Parameters

**Command Path:**

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

**destination tenant <tenant\_name> application <application\_name> epg <epg\_name> destination-ip <A.B.C.D> source-ip-prefix <A.B.C.D/M>**

**Description:** Configure monitor remote destination

**Syntax:**

|                         |                           |
|-------------------------|---------------------------|
| tenant                  | tenant                    |
| <i>tenant_name</i>      | tenant name (Max Size 63) |
| application             | application               |
| <i>application_name</i> | application name          |
| epg                     | epg                       |

|                  |                   |
|------------------|-------------------|
| <i>epg_name</i>  | epg name          |
| destination-ip   | destination IP    |
| <i>A.B.C.D</i>   | IP address        |
| source-ip-prefix | source IP prefix  |
| <i>A.B.C.D/M</i> | IP address prefix |

**Command Mode:** monitor fabric : Configure monitor session for fabric interfaces

**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>
```

**destination tenant <tenant\_name> application <application\_name> epg <epg\_name> destination-ip <A.B.C.D> source-ip-prefix <A.B.C.D/M>**

**Description:** Configure monitor remote destination

**Syntax:**

|                         |                                |
|-------------------------|--------------------------------|
| tenant                  | tenant                         |
| <i>tenant_name</i>      | tenant name (Max Size 63)      |
| application             | application                    |
| <i>application_name</i> | application name (Max Size 64) |
| epg                     | epg                            |
| <i>epg_name</i>         | epg name (Max Size 64)         |
| destination-ip          | destination IP                 |
| <i>A.B.C.D</i>          | IP address                     |
| source-ip-prefix        | source IP prefix               |
| <i>A.B.C.D/M</i>        | IP address prefix              |

**Command Mode:** monitor tenant : Configure monitor session for tenant EPGs

**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>
```

**destination** <A.B.C.D|A:B::C:D>

**Description:** Destination IP of analytics server

**Syntax:**

|                         |                                    |
|-------------------------|------------------------------------|
| <i>A.B.C.D/A:B::C:D</i> | Destination IP of Analytics Server |
|-------------------------|------------------------------------|

**Command Mode:** flow-exporter : Configure external analytics reachability information

**Command Path:**

```
# configure [['terminal', 't']]
(config)# analytics cluster <WORD>
(config-analytics)# flow-exporter <WORD>
(config-analytics-cluster-exporter)# destination <A.B.C.D|A:B::C:D>
```

# destination address

**destination address <A.B.C.D|A:B::C:D>**

**Description:** Configure destination address

**Syntax:**

|                         |                  |
|-------------------------|------------------|
| <i>A.B.C.D A:B::C:D</i> | A.B.C.D A:B::C:D |
|-------------------------|------------------|

**Command Mode:** flow exporter : Configure Netflow Exporter

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# flow exporter <WORD> destination address <A.B.C.D or A:B::C:D> transport
udp <dstPort>
(config-tn-flow-exporter)# destination address <A.B.C.D|A:B::C:D>
```

**destination address <A.B.C.D|A:B::C:D>**

**Description:** Configure destination address

**Syntax:**

|                         |                  |
|-------------------------|------------------|
| <i>A.B.C.D A:B::C:D</i> | A.B.C.D A:B::C:D |
|-------------------------|------------------|

**Command Mode:** flow exporter : Configure Netflow Exporter

**Command Path:**

```
# configure [['terminal', 't']]
(config)# flow exporter <WORD> destination address <A.B.C.D or A:B::C:D> transport udp
<dstPort>
(config-flow-exporter)# destination address <A.B.C.D|A:B::C:D>
```

**destination address <A.B.C.D|A:B::C:D>**

**Description:** Configure destination address

**Syntax:**

|                         |                  |
|-------------------------|------------------|
| <i>A.B.C.D A:B::C:D</i> | A.B.C.D A:B::C:D |
|-------------------------|------------------|

**Command Mode:** flow vm-exporter : Configure NetFlow Exporter for VM Networking

**Command Path:**

```
# configure [['terminal', 't']]
(config)# flow vm-exporter <WORD> destination address <A.B.C.D or A:B::C:D> transport udp
<dstPort>
(config-flow-vm-exporter)# destination address <A.B.C.D|A:B::C:D>
```

# destination destip

**destination destip <A.B.C.D>**

**Description:** Configure monitor remote destination

**Syntax:**

|                |                        |
|----------------|------------------------|
| <i>A.B.C.D</i> | Destination IP address |
|----------------|------------------------|

**Command Mode:** monitor virtual : Configure monitor session for virtual switches

**Command Path:**

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

# destination epg

**destination epg tenant <WORD> application <WORD> epg <WORD>**

**Description:** Configure destination EPg

**Syntax:**

|             |   |
|-------------|---|
| tenant      | Tenant hosting the EPg                    |
| <i>WORD</i> | Tenant hosting the EPg (Max Size 63)      |
| application | Application hosting the EPg               |
| <i>WORD</i> | Application hosting the EPg (Max Size 64) |
| epg         | EPg                                       |
| <i>WORD</i> | EPg (Max Size 64)                         |

**Command Mode:** flow exporter : Configure Netflow Exporter

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# flow exporter <WORD> destination address <A.B.C.D or A:B::C:D> transport
udp <dstPort>
(config-tn-flow-exporter)# destination epg tenant <WORD> application <WORD> epg <WORD>
```

**destination epg tenant <WORD> application <WORD> epg <WORD>**

**Description:** Configure destination EPg

**Syntax:**

|             |   |
|-------------|---|
| tenant      | Tenant hosting the EPg                    |
| <i>WORD</i> | Tenant hosting the EPg (Max Size 63)      |
| application | Application hosting the EPg               |
| <i>WORD</i> | Application hosting the EPg (Max Size 64) |
| epg         | EPg                                       |
| <i>WORD</i> | EPg (Max Size 64)                         |

**Command Mode:** flow exporter : Configure Netflow Exporter

**Command Path:**

```
# configure [['terminal', 't']]
(config)# flow exporter <WORD> destination address <A.B.C.D or A:B::C:D> transport udp
```

```
<dstPort>
(config-flow-exporter)# destination epg tenant <WORD> application <WORD> epg <WORD>
```

**destination epg tenant <WORD> application <WORD> epg <WORD>**

**Description:** Configure destination EPg

**Syntax:**

|             |   |
|-------------|---|
| tenant      | Tenant hosting the EPg                    |
| <i>WORD</i> | Tenant hosting the EPg (Max Size 63)      |
| application | Application hosting the EPg               |
| <i>WORD</i> | Application hosting the EPg (Max Size 64) |
| epg         | EPg                                       |
| <i>WORD</i> | EPg (Max Size 64)                         |

**Command Mode:** flow vm-exporter : Configure NetFlow Exporter for VM Networking

**Command Path:**

```
# configure [['terminal', 't']]
(config)# flow vm-exporter <WORD> destination address <A.B.C.D or A:B::C:D> transport udp
<dstPort>
(config-flow-vm-exporter)# destination epg tenant <WORD> application <WORD> epg <WORD>
```

## destination external-l3 epg tenant l3out epg

**destination external-l3 epg tenant <WORD> l3out <WORD> epg <WORD>**

**Description:** Epg

**Syntax:**

|        |                                       |
|--------|---------------------------------------|
| tenant | Tenant                                |
| WORD   | Tenant hosting the EPg (Max Size 63)  |
| WORD   | l3Out within the Tenant (Max Size 64) |
| WORD   | l3Out within the Tenant (Max Size 64) |

**Command Mode:** flow exporter : Configure Netflow Exporter

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# flow exporter <WORD> destination address <A.B.C.D or A:B::C:D> transport
udp <dstPort>
(config-tn-flow-exporter)# destination external-l3 epg tenant <WORD> l3out <WORD> epg <WORD>
```

**destination external-l3 epg tenant <WORD> l3out <WORD> epg <WORD>**

**Description:** Epg

**Syntax:**

|        |                                       |
|--------|---------------------------------------|
| tenant | Tenant                                |
| WORD   | Tenant hosting the EPg (Max Size 63)  |
| WORD   | l3Out within the Tenant (Max Size 64) |
| WORD   | l3Out within the Tenant (Max Size 64) |

**Command Mode:** flow exporter : Configure Netflow Exporter

**Command Path:**

```
# configure [['terminal', 't']]
(config)# flow exporter <WORD> destination address <A.B.C.D or A:B::C:D> transport udp
<dstPort>
(config-flow-exporter)# destination external-l3 epg tenant <WORD> l3out <WORD> epg <WORD>
```

**destination external-l3 epg tenant <WORD> l3out <WORD> epg <WORD>**

**Description:** Epg



**Syntax:**

|        |                                       |
|--------|---------------------------------------|
| tenant | Tenant                                |
| WORD   | Tenant hosting the EPg (Max Size 63)  |
| WORD   | l3Out within the Tenant (Max Size 64) |
| WORD   | l3Out within the Tenant (Max Size 64) |

**Command Mode:** flow vm-exporter : Configure NetFlow Exporter for VM Networking

**Command Path:**

```
# configure [['terminal', 't']]
(config)# flow vm-exporter <WORD> destination address <A.B.C.D or A:B::C:D> transport udp
<dstPort>
(config-flow-vm-exporter)# destination external-l3 epg tenant <WORD> l3out <WORD> epg <WORD>
```

## destination external-l3 epg tenant vrf epg

**destination external-l3 epg tenant <WORD> vrf <WORD> epg <WORD>**

**Description:** epg

**Syntax:**

|        |                                       |
|--------|---------------------------------------|
| tenant | Tenant                                |
| WORD   | Tenant hosting the EPg (Max Size 63)  |
| WORD   | Vrf on the Tenant (Max Size 64)       |
| WORD   | Instp within the Tenant (Max Size 64) |

**Command Mode:** flow exporter : Configure Netflow Exporter

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# flow exporter <WORD> destination address <A.B.C.D or A:B::C:D> transport
udp <dstPort>
(config-tn-flow-exporter)# destination external-l3 epg tenant <WORD> vrf <WORD> epg <WORD>
```

**destination external-l3 epg tenant <WORD> vrf <WORD> epg <WORD>**

**Description:** epg

**Syntax:**

|        |                                       |
|--------|---------------------------------------|
| tenant | Tenant                                |
| WORD   | Tenant hosting the EPg (Max Size 63)  |
| WORD   | Vrf on the Tenant (Max Size 64)       |
| WORD   | Instp within the Tenant (Max Size 64) |

**Command Mode:** flow exporter : Configure Netflow Exporter

**Command Path:**

```
# configure [['terminal', 't']]
(config)# flow exporter <WORD> destination address <A.B.C.D or A:B::C:D> transport udp
<dstPort>
(config-flow-exporter)# destination external-l3 epg tenant <WORD> vrf <WORD> epg <WORD>
```

**destination external-l3 epg tenant <WORD> vrf <WORD> epg <WORD>**

**Description:** epg

**Syntax:**

|        |                                       |
|--------|---------------------------------------|
| tenant | Tenant                                |
| WORD   | Tenant hosting the EPg (Max Size 63)  |
| WORD   | Vrf on the Tenant (Max Size 64)       |
| WORD   | Instp within the Tenant (Max Size 64) |

**Command Mode:** flow vm-exporter : Configure NetFlow Exporter for VM Networking

**Command Path:**

```
# configure [['terminal', 't']]
(config)# flow vm-exporter <WORD> destination address <A.B.C.D or A:B::C:D> transport udp
<dstPort>
(config-flow-vm-exporter)# destination external-l3 epg tenant <WORD> vrf <WORD> epg <WORD>
```

## destination interface

**destination interface ethernet <ethernet> leaf <leaf Id> [mtu <mtu>]**

**Description:** Configure monitor local destination

**Syntax:**

|            |  |
|------------|--|
| ethernet   | ethernet   |
| <ethernet> | <ethernet>   |
| leaf       | leaf   |
| <leaf Id>  | leaf Id  |
| mtu        | (Optional) mtu value. Number range from=64 to=9216 |

**Command Mode:** monitor access : Configure monitor session for access interfaces

**Command Path:**

```
# configure [['terminal', 't']]
(config)# monitor access session <session_name>
(config-monitor-access)# destination interface ethernet <ethernet> leaf <leaf Id> [mtu
<mtu>]
```

## destination 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>

**Description:** Configure monitor remote destination

**Syntax:**

|                         |                                |
|-------------------------|--------------------------------|
| <i>tenant_name</i>      | tenant name (Max Size 63)      |
| application             | application                    |
| <i>application_name</i> | application name (Max Size 64) |
| epg                     | epg                            |
| <i>epg_name</i>         | epg name (Max Size 64)         |
| destination-ip          | destination IP                 |
| <i>A.B.C.D</i>          | IP address                     |
| source-ip-prefix        | source IP prefix               |
| <i>A.B.C.D/M</i>        | IP address prefix              |

**Command Mode:** monitor access : Configure monitor session for access interfaces

**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>
```

**destination tenant** <WORD> **application** <WORD> **epg** <WORD> **mac**  
**E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE**

**Description:** Configure monitor local destination

**Syntax:**

|             |                                |
|-------------|--------------------------------|
| <i>WORD</i> | tenant name (Max Size 63)      |
| application | application                    |
| <i>WORD</i> | application name (Max Size 64) |
| epg         | epg                            |
| <i>WORD</i> | epg name (Max Size 64)         |
| mac         | mac                            |

|                          |                        |
|--------------------------|------------------------|
| <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:** monitor virtual : Configure monitor session for virtual switches

**Command Path:**

```
# configure [['terminal', 't']]
(config)# monitor virtual session <WORD>
(config-monitor-virtual)# destination tenant <WORD> application <WORD> epg <WORD> mac
E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE
```

# device-package

**device-package** <mdev>

**Description:** Add device package

**Syntax:**

|             |      |
|-------------|------|
| <i>mdev</i> | mdev |
|-------------|------|

**Command Mode:** function-profile : Configure function profile container

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# 1417 resource-pool <WORD>
(config-resource-pool)# function-profile <WORD>
(config-function-profile)# device-package <mdev>
```

# dhcp option

**dhcp option** <WORD> id <NUMBER> [data <WORD>]

**Description:** Add or modify an existing DHCP option when relayed from the server to the client

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Name of the option to add (Max Size 64)  |
| id          | ID of the option   |
| <0-255>     | ID of the option. Number range from=0 to=255   |
| <i>WORD</i> | (Optional) Body of the Option TLV as hex string, surrounded by single quotes ex: 'foo*' (Max Size 256) |

**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)# dhcp option <WORD> id <NUMBER> [data <WORD>]
```



# dhcp relay policy

**dhcp relay policy tenant|infra <WORD> [option <WORD>]**

**Description:** Associate the BD with a DHCP Relay policy

**Syntax:**

|             |   |
|-------------|---|
| tenant      | Select DHCP policies from current Tenant                |
| infra       | Select DHCP policy from infra                           |
| <i>WORD</i> | Name of the DHCP relay policy (Max Size 64)             |
| <i>WORD</i> | (Optional) Name of the DHCP option policy (Max Size 64) |

**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)# dhcp relay policy tenant|infra <WORD> [option <WORD>]
```

**dhcp relay policy tenant|infra <WORD>**

**Description:** Associate the SVIs with a DHCP Relay policy

**Syntax:**

|             |   |
|-------------|---|
| tenant      | Select DHCP policies from current Tenant    |
| infra       | Select DHCP policy from infra               |
| <i>WORD</i> | Name of the DHCP relay policy (Max Size 64) |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# dhcp relay policy tenant|infra <WORD>
```

**dhcp relay policy tenant|infra <WORD>**

**Description:** Associate the SVIs with a DHCP Relay policy

**Syntax:**

|        |  |
|--------|--|
| tenant | Select DHCP policies from current Tenant |
|--------|--|

|             |   |
|-------------|---|
| infra       | Select DHCP policy from infra               |
| <i>WORD</i> | Name of the DHCP relay policy (Max Size 64) |

**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)# dhcp relay policy tenant|infra <WORD>
```

**dhcp relay policy tenant|infra <WORD>**

**Description:** Associate the SVIs with a DHCP Relay policy

**Syntax:**

|             |   |
|-------------|---|
| tenant      | Select DHCP policies from current Tenant    |
| infra       | Select DHCP policy from infra               |
| <i>WORD</i> | Name of the DHCP relay policy (Max Size 64) |

**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)# dhcp relay policy tenant|infra <WORD>
```

**dhcp relay policy tenant|infra <WORD>**

**Description:** Associate the SVIs with a DHCP Relay policy

**Syntax:**

|             |   |
|-------------|---|
| tenant      | Select DHCP policies from current Tenant    |
| infra       | Select DHCP policy from infra               |
| <i>WORD</i> | Name of the DHCP relay policy (Max Size 64) |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# dhcp relay policy tenant|infra <WORD>
```

**dhcp relay policy tenant|infra <WORD>****Description:** Associate the SVIs with a DHCP Relay policy**Syntax:**

|             |   |
|-------------|---|
| tenant      | Select DHCP policies from current Tenant    |
| infra       | Select DHCP policy from infra               |
| <i>WORD</i> | Name of the DHCP relay policy (Max Size 64) |

**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)# dhcp relay policy tenant|infra <WORD>
```

**dhcp relay policy tenant|infra <WORD>****Description:** Associate the SVIs with a DHCP Relay policy**Syntax:**

|             |   |
|-------------|---|
| tenant      | Select DHCP policies from current Tenant    |
| infra       | Select DHCP policy from infra               |
| <i>WORD</i> | Name of the DHCP relay policy (Max Size 64) |

**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)# dhcp relay policy tenant|infra <WORD>
```

# dhcpv4-server

## dhcpv4-server

**Description:** Config DHCPv4 server in trust control policy

**Command Mode:** trust-control : Configuration for trust control policy

### Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# first-hop-security
(config-tenant-fhs)# trust-control <WORD>
(config-tenant-fhs-trustctrl)# dhcpv4-server
```

# dhcpv6-server

## dhcpv6-server

**Description:** Config DHCPv6 server in trust control policy

**Command Mode:** trust-control : Configuration for trust control policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# first-hop-security
(config-tenant-fhs)# trust-control <WORD>
(config-tenant-fhs-trustctrl)# dhcpv6-server
```

# dhparam

**dhparam** <dhparam>

**Description:** Set the DH parameter used for HTTPS communication service

**Syntax:**

|                |  |
|----------------|--|
| <i>dhparam</i> | DH Param as comma separated values like val1,val2,..valN |
|----------------|--|

**Command Mode:** https : HTTPS communication policy group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# comm-policy <WORD>
(config-comm-policy)# https
(config-https)# dhparam <dhparam>
```

# direction

## direction both|rx|tx

**Description:** Monitor direction

**Syntax:**

|      |      |
|------|------|
| both | both |
| rx   | rx   |
| tx   | tx   |

**Command Mode:** source interface ethernet : Configure monitor for ethernet access interfaces

**Command Path:**

```
# configure [['terminal', 't']]
(config)# monitor access session <session_name>
(config-monitor-access)# source interface ethernet <ethernet> leaf <leaf Id>
(config-monitor-access-source)# direction both|rx|tx
```

## direction both|rx|tx

**Description:** Monitor direction

**Syntax:**

|      |      |
|------|------|
| both | both |
| rx   | rx   |
| tx   | tx   |

**Command Mode:** source interface port-channel : Configure monitor for port-channel interfaces

**Command Path:**

```
# configure [['terminal', 't']]
(config)# monitor access session <session_name>
(config-monitor-access)# source interface port-channel <port-channel list> leaf <leaf Id>
[fex <fex Id>]
(config-monitor-access-source)# direction both|rx|tx
```

## direction both|rx|tx

**Description:** Monitor direction

**Syntax:**

|      |      |
|------|------|
| both | both |
| rx   | rx   |

|    |    |
|----|----|
| tx | tx |
|----|----|

**Command Mode:** source interface vpc : Configure monitor for VPC interfaces

**Command Path:**

```
# configure [['terminal', 't']]
(config)# monitor access session <session_name>
(config-monitor-access)# source interface vpc <vpc list> leaf <leaf Id1> <leaf Id2> [fex
<fex Ids>]
(config-monitor-access-source)# direction both|rx|tx
```

**direction both|rx|tx**

**Description:** Monitor direction

**Syntax:**

|      |      |
|------|------|
| both | both |
| rx   | rx   |
| tx   | tx   |

**Command Mode:** source interface ethernet : Configure monitor for ethernet fabric interfaces

**Command Path:**

```
# configure [['terminal', 't']]
(config)# monitor fabric session <session_name>
(config-monitor-fabric)# source interface ethernet <ethernet> switch <switch Id>
(config-monitor-fabric-source)# direction both|rx|tx
```

**direction both|rx|tx**

**Description:** Monitor direction

**Syntax:**

|      |      |
|------|------|
| both | both |
| rx   | rx   |
| tx   | tx   |

**Command Mode:** source application : Configure EPG as monitor source

**Command Path:**

```
# configure [['terminal', 't']]
(config)# monitor tenant <tenant_name> session <WORD>
(config-monitor-tenant)# source application <application_name> epg <epg_name>
(config-monitor-tenant-source)# direction both|rx|tx
```



**direction both|rx|tx****Description:** Configure monitor source direction**Syntax:**

|      |      |
|------|------|
| both | both |
| rx   | rx   |
| tx   | tx   |

**Command Mode:** source : Configure monitor virtual source**Command Path:**

```
# configure [['terminal', 't']]
(config)# monitor virtual session <WORD>
(config-monitor-virtual)# source tenant <WORD> application <WORD> epg <WORD> [mac <E.E.E
EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE >]
(config-monitor-virtual-source)# direction both|rx|tx
```

# disable-connected-check

## disable-connected-check

**Description:** Disable check for directly connected peer

**Command Mode:** neighbor : Configure a BGP neighbor

**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)# disable-connected-check
```

## disable-connected-check

**Description:** Disable check for directly connected peer

**Command Mode:** neighbor : Configure a BGP neighbor

**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)# disable-connected-check
```

# disable-peer-as-check

## disable-peer-as-check

**Description:** Disable checking of peer AS-number while advertising

**Command Mode:** neighbor : Configure a BGP neighbor

**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] [13out
<WORD>]
(config-leaf-bgp-vrf-neighbor)# disable-peer-as-check
```

## disable-peer-as-check

**Description:** Disable checking of peer AS-number while advertising

**Command Mode:** neighbor : Configure a BGP neighbor

**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] [13out
<WORD>]
(config-leaf-bgp-vrf-neighbor)# disable-peer-as-check
```

# distance

## distance <NUMBER>

**Description:** Set OSPF Policy Preferred Administrative Distance

**Syntax:**

|         |  |
|---------|--|
| <1-255> | Distance Value. Number range from=1 to=255 |
|---------|--|

**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)# distance <NUMBER>
```

## distance <NUMBER> <NUMBER> <NUMBER>

**Description:** Configure BGP Address Family Distance Properties

**Syntax:**

|         |   |
|---------|---|
| <1-255> | The administrative distance of eBGP routes. Number range from=1 to=255  |
| <1-255> | The administrative distance of iBGP routes. Number range from=1 to=255  |
| <1-255> | The administrative distance of local routes. Number range from=1 to=255 |

**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)# distance <NUMBER> <NUMBER> <NUMBER>
```

## distance <NUMBER> <NUMBER>

**Description:** Set EIGRP administrative distances

**Syntax:**

|         |  |
|---------|--|
| <1-255> | The administrative distance preference for internal routes. Number range from=1 to=255 |
| <1-255> | The administrative distance preference for external routes. Number range from=1 to=255 |

**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)# distance <NUMBER> <NUMBER>
```

**distance <NUMBER> <NUMBER>**

**Description:** Set EIGRP administrative distances

**Syntax:**

|         |  |
|---------|--|
| <I-255> | The administrative distance preference for internal routes. Number range from=1 to=255 |
| <I-255> | The administrative distance preference for external routes. Number range from=1 to=255 |

**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)# distance <NUMBER> <NUMBER>
```

**distance <NUMBER>**

**Description:** Set OSPF Policy Preferred Administrative Distance

**Syntax:**

|         |  |
|---------|--|
| <I-255> | Distance Value. Number range from=1 to=255 |
|---------|--|

**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)# distance <NUMBER>
```

**distance <NUMBER> <NUMBER> <NUMBER>**

**Description:** Configure BGP Address Family Distance Properties

**Syntax:**

|         |   |
|---------|---|
| <1-255> | The administrative distance of eBGP routes. Number range from=1 to=255  |
| <1-255> | The administrative distance of iBGP routes. Number range from=1 to=255  |
| <1-255> | The administrative distance of local routes. Number range from=1 to=255 |

**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)# distance <NUMBER> <NUMBER> <NUMBER>
```

**distance <NUMBER> <NUMBER>**

**Description:** Set EIGRP administrative distances

**Syntax:**

|         |  |
|---------|--|
| <1-255> | The administrative distance preference for internal routes. Number range from=1 to=255 |
| <1-255> | The administrative distance preference for external routes. Number range from=1 to=255 |

**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)# distance <NUMBER> <NUMBER>
```

**distance <NUMBER> <NUMBER>**

**Description:** Set EIGRP administrative distances

**Syntax:**

|         |  |
|---------|--|
| <1-255> | The administrative distance preference for internal routes. Number range from=1 to=255 |
| <1-255> | The administrative distance preference for external routes. Number range from=1 to=255 |

**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)# distance <NUMBER> <NUMBER>
```

# dns

## dns

**Description:** Configure default dns policy

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# dns
```

## dns label <WORD>

**Description:** Add a DNS policy to the VRF

**Syntax:**

|             |                                   |
|-------------|-----------------------------------|
| label       | Dns policy to apply               |
| <i>WORD</i> | Dns policy to apply (Max Size 64) |

**Command Mode:** vrf : Configuration for vrf

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# vrf context <WORD>
(config-tenant-vrf)# dns label <WORD>
```



# dnssearchsuffix

**dnssearchsuffix** <suffix>

**Description:** Add DNS search suffix

**Syntax:**

|               |        |
|---------------|--------|
| <i>suffix</i> | suffix |
|---------------|--------|

**Command Mode:** microsoft : Configure static IP pool

**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>
(config-tenant-app-epg-ms-ip-pool)# dnssearchsuffix <suffix>
```

# dnsservers

**dnsservers** <DNS server list>

**Description:** Add dns servers

**Syntax:**

|                        |                 |
|------------------------|-----------------|
| <i>DNS server list</i> | DNS server list |
|------------------------|-----------------|

**Command Mode:** microsoft : Configure static IP pool

**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>
(config-tenant-app-epg-ms-ip-pool)# dnsservers <DNS server list>
```

# dnssuffix

**dnssuffix** <suffix>

**Description:** Add dns suffix

**Syntax:**

|               |        |
|---------------|--------|
| <i>suffix</i> | suffix |
|---------------|--------|

**Command Mode:** microsoft : Configure static IP pool

**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>
(config-tenant-app-epg-ms-ip-pool)# dnssuffix <suffix>
```

# dnssvr

**dnssvr <A.B.C.D>**

**Description:** dnssvr configuration mode

**Syntax:**

|                |                                      |
|----------------|--------------------------------------|
| <i>A.B.C.D</i> | IP Unicast address in format i.i.i.i |
|----------------|--------------------------------------|

**Command Mode:** dnssvrgrp : dnssvrgrp configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# dnssvrgrp <WORD>
(config-tenant-dnssvrgrp)# dnssvr <A.B.C.D>
```

# dnssvgrp

**dnssvgrp <WORD>**

**Description:** dnssvgrp configuration mode

**Syntax:**

|             |                                 |
|-------------|---------------------------------|
| <i>WORD</i> | Server group name (Max Size 16) |
|-------------|---------------------------------|

**Command Mode:** tenant : Tenant configuration mode

**Command Path:**

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

# domain

## domain <WORD>

**Description:** Create the AAA domain to which the user belongs.

**Syntax:**

|             |                     |
|-------------|---------------------|
| <i>WORD</i> | Domain for the user |
|-------------|---------------------|

**Command Mode:** username : Create a locally-authenticated user account

**Command Path:**

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

## domain <WORD> [default]

**Description:** Configure the domains for dns servers

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Domain in the format<br>^[a-zA-Z][a-zA-Z][a-zA-Z0-9][a-zA-Z][a-zA-Z0-9-]{0,253}[a-zA-Z0-9]\$ |
| default     | (Optional) Set the default domain for dns servers  |

**Command Mode:** dns : Configure default dns policy

**Command Path:**

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

## domain <WORD>

**Description:** domain configuration mode

**Syntax:**

|             |                               |
|-------------|-------------------------------|
| <i>WORD</i> | Name of domain (Max Size 512) |
|-------------|-------------------------------|

**Command Mode:** dnssvr : dnssvr configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# dnssvrgrp <WORD>
(config-tenant-dnssvrgrp)# dnssvr <A.B.C.D>
```

```
(config-tenant-dnssvrgrp-dnssvr)# domain <WORD>
```

**domain <WORD>**

**Description:** Create the AAA domain to which the Group DN belongs.

**Syntax:**

|             |                     |
|-------------|---------------------|
| <i>WORD</i> | Domain for the user |
|-------------|---------------------|

**Command Mode:** ldap-group-map-rule : LDAP group map rule name.

**Command Path:**

```
# configure [['terminal', 't']]
(config)# ldap-group-map-rule <WORD>
(config-ldap-group-map-rule)# domain <WORD>
```

# dot1q-tunnel

**dot1q-tunnel** <WORD>

**Description:** Tunnel configuration mode

**Syntax:**

|             |                               |
|-------------|-------------------------------|
| <i>WORD</i> | Tunnel EPG name (Max Size 64) |
|-------------|-------------------------------|

**Command Mode:** tenant : Tenant configuration mode

**Command Path:**

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



# dscp

## dscp <0-63>

**Description:** Configure dscp

**Syntax:**

|        |            |
|--------|------------|
| <0-63> | Dscp Value |
|--------|------------|

**Command Mode:** flow exporter : Configure Netflow Exporter

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# flow exporter <WORD> destination address <A.B.C.D or A:B::C:D> transport
udp <dstPort>
(config-tn-flow-exporter)# dscp <0-63>
```

## dscp <0-63>

**Description:** Configure dscp

**Syntax:**

|        |            |
|--------|------------|
| <0-63> | Dscp Value |
|--------|------------|

**Command Mode:** flow exporter : Configure Netflow Exporter

**Command Path:**

```
# configure [['terminal', 't']]
(config)# flow exporter <WORD> destination address <A.B.C.D or A:B::C:D> transport udp
<dstPort>
(config-flow-exporter)# dscp <0-63>
```

## dscp <0-63>

**Description:** Configure dscp

**Syntax:**

|        |            |
|--------|------------|
| <0-63> | Dscp Value |
|--------|------------|

**Command Mode:** flow vm-exporter : Configure NetFlow Exporter for VM Networking

**Command Path:**

```
# configure [['terminal', 't']]
(config)# flow vm-exporter <WORD> destination address <A.B.C.D or A:B::C:D> transport udp
<dstPort>
(config-flow-vm-exporter)# dscp <0-63>
```

**dscp <WORD>**

**Description:** Specifies the DSCP value

**Syntax:**

|             |            |
|-------------|------------|
| <i>WORD</i> | DSCP value |
|-------------|------------|

**Command Mode:** flow-exporter : Configure external analytics reachability information

**Command Path:**

```
# configure [['terminal', 't']]
(config)# analytics cluster <WORD>
(config-analytics)# flow-exporter <WORD>
(config-analytics-cluster-exporter)# dscp <WORD>
```

# dsr-vip

**dsr-vip <WORD>**

**Description:** Configure DSR VIP for a L4-L7 Graph Connector.

**Syntax:**

|             |                                   |
|-------------|-----------------------------------|
| <i>WORD</i> | Enter VIP address (Max Size None) |
|-------------|-----------------------------------|

**Command Mode:** connector : Configure Connector for a Service Node

**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)# dsr-vip <WORD>
```

# dsr

**dsr virtual-ip-address <address> [description <description>]**

**Description:** Add a DSR virtual IP address

**Syntax:**

|                    |                                     |
|--------------------|-------------------------------------|
| virtual-ip-address | Virtual IP address of load balancer |
| <address>          | IP address                          |
| description        | (Optional) description              |

**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)# dsr virtual-ip-address <address> [description <description>]
```



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# ebgp-multihop

## ebgp-multihop <NUMBER>

**Description:** Specify multihop TTL for remote peer

**Syntax:**

|         |  |
|---------|--|
| <1-255> | EBGP TTL value. Number range from=1 to=255 |
|---------|--|

**Command Mode:** neighbor : Configure a BGP neighbor

**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)# ebgp-multihop <NUMBER>
```

## ebgp-multihop <NUMBER>

**Description:** Specify multihop TTL for remote peer

**Syntax:**

|         |  |
|---------|--|
| <1-255> | EBGP TTL value. Number range from=1 to=255 |
|---------|--|

**Command Mode:** neighbor : Configure a BGP neighbor

**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)# ebgp-multihop <NUMBER>
```

# echo-address

**echo-address** <arg>

**Description:** Configure BFD ECHO-SRC-ADDRESS value

**Syntax:**

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

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

**Command Path:**

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



# echo-mode

## echo-mode enable

**Description:** Enable Echo mode

**Syntax:**

|        |                  |
|--------|------------------|
| enable | Enable Echo mode |
|--------|------------------|

**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)# echo-mode enable
```

## echo-mode enable

**Description:** Enable Echo mode

**Syntax:**

|        |                  |
|--------|------------------|
| enable | Enable Echo mode |
|--------|------------------|

**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)# echo-mode enable
```

# echo-rx-interval

## echo-rx-interval <NUMBER>

**Description:** Configure BFD ECHO-RX-INTERVAL 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)# echo-rx-interval <NUMBER>
```

## echo-rx-interval <NUMBER>

**Description:** Configure Echo Rx Interval in milliseconds

**Syntax:**

|            |   |
|------------|---|
| <interval> | Echo 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)# echo-rx-interval <NUMBER>
```

## echo-rx-interval <NUMBER>

**Description:** Configure Echo Rx Interval in milliseconds

**Syntax:**

|            |   |
|------------|---|
| <interval> | Echo 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)# echo-rx-interval <NUMBER>
```

# ecn

## ecn enabled|disabled

**Description:** Set Explicit congestion notification for WRED

**Syntax:**

|          |   |
|----------|---|
| enabled  | Set Explicit congestion notification for WRED |
| disabled | Disable congestion notification for WRED      |

**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)# ecn enabled|disabled
```

# email-addr

**email-addr <WORD>**

**Description:** Configure the e-mail address

**Syntax:**

|             |                                   |
|-------------|-----------------------------------|
| <i>WORD</i> | The email address (Max Size None) |
|-------------|-----------------------------------|

**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)# email-addr <WORD>
```

**email-addr <WORD>**

**Description:** Configure the e-mail address

**Syntax:**

|             |                                   |
|-------------|-----------------------------------|
| <i>WORD</i> | The email address (Max Size None) |
|-------------|-----------------------------------|

**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)# email-addr <WORD>
```

# email-contact

## email-contact <WORD>

**Description:** The contact e-mail address

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Contract e-mail address (Max Size 512) |
|-------------|--|

**Command Mode:** destination-profile : Configure destination profile Parameters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# callhome common
(config-callhome)# destination-profile
(config-callhome-destnprof)# email-contact <WORD>
```

## email-contact <WORD>

**Description:** The contact e-mail address

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Contract e-mail address (Max Size 512) |
|-------------|--|

**Command Mode:** destination-profile : Configure destination profile Parameters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# smartcallhome common
(config-smartcallhome)# destination-profile
(config-callhome-destnprof)# email-contact <WORD>
```

# email

## email <WORD>

**Description:** Set The email address of the locally-authenticated user.

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | email address of the locally-authenticated user |
|-------------|---|

**Command Mode:** username : Create a locally-authenticated user account

**Command Path:**

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

## email <WORD>

**Description:** Set The email address of the organization contact person.

**Syntax:**

|                 |                             |
|-----------------|-----------------------------|
| < <i>WORD</i> > | email address (Max Size 40) |
|-----------------|-----------------------------|

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

**Command Path:**

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

# enable-bfd

## enable-bfd

**Description:** Enable Bidirectional Forwarding Detection(BFD) protocol

**Command Mode:** template hsrp interface-policy : Configure HSRP Interface policy templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template hsrp interface-policy <WORD> tenant <WORD>
(config-template-hsrp-if-pol)# enable-bfd
```

## enable-bfd

**Description:** Enable Bidirectional Forwarding Detection(BFD) protocol

**Command Mode:** template hsrp interface-policy : Configure HSRP Interface policy templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# template hsrp interface-policy <WORD> tenant <WORD>
(config-template-hsrp-if-pol)# enable-bfd
```

# enable-ssl

## enable-ssl

**Description:** Enabling an SSL connection with the LDAP provider

**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)# enable-ssl
```



# enable-throttle

## enable-throttle

**Description:** Enable HTTP AAA Login/Refresh throttling

**Command Mode:** http : HTTP communication policy group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# comm-policy <WORD>
(config-comm-policy)# http
(config-http)# enable-throttle
```

## enable-throttle

**Description:** Enable HTTPS AAA Login/Refresh throttling

**Command Mode:** https : HTTPS communication policy group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# comm-policy <WORD>
(config-comm-policy)# https
(config-https)# enable-throttle
```

# enable

## enable

**Description:** Enable macsec policy

**Command Mode:** template macsec access|fabric interface-policy : Configure macsec interface policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template macsec access|fabric interface-policy <WORD>
(config-macsec-if-policy)# enable
```

## enable

**Description:** Enable TWAMP Responder policy

**Command Mode:** template twamp responder-policy : Configure twamp responder policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template twamp responder-policy <WORD>
(config-twamp-responder-policy)# enable
```

## enable

**Description:** Enable TWAMP Server policy

**Command Mode:** template twamp server-policy : Configure twamp server policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template twamp server-policy <WORD>
(config-twamp-server-policy)# enable
```

# encap-mode

## encap-mode auto|vlan|vxlan

**Description:** Enforce encap mode, domain mode will be used if not set

**Syntax:**

|       |                        |
|-------|------------------------|
| auto  | Uses domain preference |
| vlan  | VLAN                   |
| vxlan | VXLAN                  |

**Command Mode:** vmware-domain : Associate EPG to a VMWare Domain

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# application <WORD>
(config-tenant-app)# epg <WORD> [type <WORD>]
(config-tenant-app-epg)# vmware-domain member <WORD> [encap <WORD>] [primary-encap <WORD>]
[allow-micro-segmentation] [deploy <WORD>] [push <WORD>] [binding-type
staticBinding|dynamicBinding|ephemeral] [port-allocation fixed|elastic] [num-ports <WORD>]
[delimiter <WORD>]
(config-tenant-app-epg-domain)# encap-mode auto|vlan|vxlan
```

# encap

## encap scope <arg>

**Description:** Configure the encap scope

### Syntax:

|            |                 |
|------------|-----------------|
| scope      | The encap scope |
| <i>arg</i> |                 |

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

### Command Path:

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

## encap scope <arg>

**Description:** Configure the encap scope

### Syntax:

|            |                 |
|------------|-----------------|
| scope      | The encap scope |
| <i>arg</i> |                 |

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

### Command Path:

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

# encryption

## encryption

**Description:** Enable AES Encryption

**Command Mode:** crypto aes : AES encryption configuration

**Command Path:**

```
# configure [['terminal', 't']]
(config)# crypto aes
(config-aes)# encryption
```

# end

**end**

**Description:** Exit to the exec mode

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# end
```

# endpoint

## endpoint retention <WORD>

**Description:** Specify an endpoint retention policy for this VRF

**Syntax:**

|             |   |
|-------------|---|
| retention   | Specify an endpoint retention policy for this VRF |
| <i>WORD</i> | Endpoint Retention Policy (Max Size 64)           |

**Command Mode:** vrf : Configuration for vrf

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# vrf context <WORD>
(config-tenant-vrf)# endpoint retention <WORD>
```

# endpoint ip

**endpoint ip** <A.B.C.D/LEN>

**Description:** IP endpoint

**Syntax:**

|                    |   |
|--------------------|---|
| <i>A.B.C.D/LEN</i> | IP prefix and network mask length in format x.x.x.x/m |
|--------------------|---|

**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)# endpoint ip <A.B.C.D/LEN>
```



# endpoint ip aging

## endpoint ip aging

**Description:** Enable/Disable Endpoint IP Aging

**Command Mode:** configure : Configuration Mode

### Command Path:

```
# configure [['terminal', 't']]  
(config)# endpoint ip aging
```

## endpoint ip anycast

**endpoint ip <A.B.C.D/LEN> anycast E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE**

**Description:** IP endpoint

**Syntax:**

|                          |   |
|--------------------------|---|
| <i>A.B.C.D/LEN</i>       | IP prefix and network mask length in format x.x.x.x/m |
| <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:** 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)# endpoint ip <A.B.C.D/LEN> anycast
E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE
```

# endpoint ip next-hop

**endpoint ip** <A.B.C.D/LEN> **next-hop** <A.B.C.D>

**Description:** IP endpoint

**Syntax:**

|                    |   |
|--------------------|---|
| <i>A.B.C.D/LEN</i> | IP prefix and network mask length in format x.x.x.x/m |
| <i>A.B.C.D</i>     | IP address in format i.i.i.i                          |

**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)# endpoint ip <A.B.C.D/LEN> next-hop <A.B.C.D>
```

# endpoint ipv6

**endpoint ipv6** <A:B::C:D/LEN>

**Description:** IPv6 endpoint

**Syntax:**

|                     |  |
|---------------------|--|
| <i>A:B::C:D/LEN</i> | IPv6 prefix format: xxxx:xxxx/ml, xxxx:xxxx::/ml, xxxx::xx/128 |
|---------------------|--|

**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)# endpoint ipv6 <A:B::C:D/LEN>
```

## endpoint ipv6 anycast

**endpoint ipv6 <A:B::C:D/LEN> anycast E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE**

**Description:** IPv6 endpoint

**Syntax:**

|                          |  |
|--------------------------|--|
| <i>A:B::C:D/LEN</i>      | IPv6 prefix format: xxxx:xxxx/ml, xxxx:xxxx::/ml, xxxx::xx/128 |
| <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:** 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)# endpoint ipv6 <A:B::C:D/LEN> anycast
E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE
```

## endpoint ipv6 next-hop

**endpoint ipv6** <A:B::C:D/LEN> **next-hop** <A:B::C:D>

**Description:** IPv6 endpoint

**Syntax:**

|                     |  |
|---------------------|--|
| <i>A:B::C:D/LEN</i> | IPv6 prefix format: xxxx:xxxx/ml, xxxx:xxxx::/ml, xxxx::xx/128 |
| <i>A:B::C:D</i>     | IPv6 address in format xxxx:xxxx, xxxx::xx                     |

**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)# endpoint ipv6 <A:B::C:D/LEN> next-hop <A:B::C:D>
```

# endpoint loop-detect action bd-learn-disable

## endpoint loop-detect action bd-learn-disable

**Description:** Configure Endpoint Loop Protection Action to BD-Learn-Disable

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# endpoint loop-detect action bd-learn-disable
```

# endpoint loop-detect action port-disable

## endpoint loop-detect action port-disable

**Description:** Configure Endpoint Loop Protection Action to Port-Disable

**Command Mode:** configure : Configuration Mode

**Command Path:**

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



# endpoint loop-detect enable

## endpoint loop-detect enable

**Description:** Enable/Disable Endpoint Loop-Detect Policy

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# endpoint loop-detect enable
```

# endpoint loop-detect factor

**endpoint loop-detect factor** <NUMBER>

**Description:** Configure Endpoint Loop Detection Factor

**Syntax:**

|         |   |
|---------|---|
| <1-255> | End Point Loop Protection Multiplication Factor. Number range from=1 to=255 |
|---------|---|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# endpoint loop-detect factor <NUMBER>
```

# endpoint loop-detect interval

**endpoint loop-detect interval** <NUMBER>

**Description:** Configure Endpoint Loop Detection Interval

**Syntax:**

|          |  |
|----------|--|
| <30-300> | End Point Loop Detection Interval. Number range from=30 to=300 |
|----------|--|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# endpoint loop-detect interval <NUMBER>
```

# endpoint move-detection

**endpoint move-detection <WORD>**

**Description:** Endpoint Move detection Mode

**Syntax:**

|             |                              |
|-------------|------------------------------|
| <i>WORD</i> | Endpoint Move detection Mode |
|-------------|------------------------------|

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

**Command Path:**

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

# endpoint retention bounce-age-interval

**endpoint retention bounce-age-interval x in <0-0> or <150-65535>**

**Description:** Set the bounce age interval for endpoints

**Syntax:**

|  |   |
|--|---|
| <i>x in &lt;0-0&gt; or &lt;150-65535&gt;</i> | Set the Bounce Age Interval, use 0 for infinite |
|--|---|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# bridge-domain <WORD>
(config-tenant-bd)# endpoint retention bounce-age-interval x in <0-0> or <150-65535>
```

**endpoint retention bounce-age-interval x in <0-0> or <150-65535>**

**Description:** Set the bounce age interval for endpoints

**Syntax:**

|  |   |
|--|---|
| <i>x in &lt;0-0&gt; or &lt;150-65535&gt;</i> | Set the Bounce Age Interval, use 0 for infinite |
|--|---|

**Command Mode:** template endpoint retention policy : Configure an endpoint retention policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template endpoint retention policy <WORD>
(config-tenant-template-endpoint-retention)# endpoint retention bounce-age-interval x in
<0-0> or <150-65535>
```

# endpoint retention hold-interval

**endpoint retention hold-interval <NUMBER>**

**Description:** Set the hold interval for endpoints

**Syntax:**

|           |   |
|-----------|---|
| <5-65535> | Set the Hold Interval. Number range from=5 to=65535 |
|-----------|---|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# bridge-domain <WORD>
(config-tenant-bd)# endpoint retention hold-interval <NUMBER>
```

**endpoint retention hold-interval <NUMBER>**

**Description:** Set the hold interval for endpoints

**Syntax:**

|           |   |
|-----------|---|
| <5-65535> | Set the Hold Interval. Number range from=5 to=65535 |
|-----------|---|

**Command Mode:** template endpoint retention policy : Configure an endpoint retention policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template endpoint retention policy <WORD>
(config-tenant-template-endpoint-retention)# endpoint retention hold-interval <NUMBER>
```

# endpoint retention local-age-interval

**endpoint retention local-age-interval x in <0-0> or <120-65535>**

**Description:** Set the local endpoint age interval

**Syntax:**

|  |   |
|--|---|
| <i>x in &lt;0-0&gt; or &lt;120-65535&gt;</i> | Set the local endpoint age interval, use 0 for infinite |
|--|---|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# bridge-domain <WORD>
(config-tenant-bd)# endpoint retention local-age-interval x in <0-0> or <120-65535>
```

**endpoint retention local-age-interval x in <0-0> or <120-65535>**

**Description:** Set the local endpoint age interval

**Syntax:**

|  |   |
|--|---|
| <i>x in &lt;0-0&gt; or &lt;120-65535&gt;</i> | Set the local endpoint age interval, use 0 for infinite |
|--|---|

**Command Mode:** template endpoint retention policy : Configure an endpoint retention policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template endpoint retention policy <WORD>
(config-tenant-template-endpoint-retention)# endpoint retention local-age-interval x in
<0-0> or <120-65535>
```

# endpoint retention move-frequency

**endpoint retention move-frequency <NUMBER>**

**Description:** Set the move frequency

**Syntax:**

|           |  |
|-----------|--|
| <0-65535> | Set the move frequency. Number range from=0 to=65535 |
|-----------|--|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# bridge-domain <WORD>
(config-tenant-bd)# endpoint retention move-frequency <NUMBER>
```

**endpoint retention move-frequency <NUMBER>**

**Description:** Set the move frequency

**Syntax:**

|           |  |
|-----------|--|
| <0-65535> | Set the move frequency. Number range from=0 to=65535 |
|-----------|--|

**Command Mode:** template endpoint retention policy : Configure an endpoint retention policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template endpoint retention policy <WORD>
(config-tenant-template-endpoint-retention)# endpoint retention move-frequency <NUMBER>
```



# endpoint retention policy

**endpoint retention policy <WORD>**

**Description:** Associate the BD with an endpoint retention policy

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Name of the endpoint retention policy to set (Max Size 64) |
|-------------|--|

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

**Command Path:**

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

# endpoint retention remote-age-interval

**endpoint retention remote-age-interval x in <0-0> or <120-65535>**

**Description:** Set the remote endpoint age interval

**Syntax:**

|  |  |
|--|--|
| <i>x in &lt;0-0&gt; or &lt;120-65535&gt;</i> | Remote endpoint age interval, use 0 for infinite |
|--|--|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# bridge-domain <WORD>
(config-tenant-bd)# endpoint retention remote-age-interval x in <0-0> or <120-65535>
```

**endpoint retention remote-age-interval x in <0-0> or <120-65535>**

**Description:** Set the remote endpoint age interval

**Syntax:**

|  |  |
|--|--|
| <i>x in &lt;0-0&gt; or &lt;120-65535&gt;</i> | Remote endpoint age interval, use 0 for infinite |
|--|--|

**Command Mode:** template endpoint retention policy : Configure an endpoint retention policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template endpoint retention policy <WORD>
(config-tenant-template-endpoint-retention)# endpoint retention remote-age-interval x in
<0-0> or <120-65535>
```

# endpoint rogue-detect enable

## endpoint rogue-detect enable

**Description:** Enable/Disable Rogue Endpoint Detection Policy

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# endpoint rogue-detect enable
```

# endpoint rogue-detect factor

**endpoint rogue-detect factor** <NUMBER>

**Description:** Configure Rogue Endpoint Detection Factor

**Syntax:**

|           |
|-----------|
| <2-65535> |
|-----------|

|   |
|---|
| Rogue Endpoint Detection Factor. Number range from=2 to=65535 |
|---|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# endpoint rogue-detect factor <NUMBER>
```

# endpoint rogue-detect hold-interval

**endpoint rogue-detect hold-interval <NUMBER>**

**Description:** Configure Rogue Endpoint Hold Interval

**Syntax:**

|            |   |
|------------|---|
| <300-3600> | Rogue Endpoint Hold Interval. Number range from=300 to=3600 |
|------------|---|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# endpoint rogue-detect hold-interval <NUMBER>
```

# endpoint rogue-detect interval

**endpoint rogue-detect interval** <NUMBER>

**Description:** Configure Rogue Endpoint Detection Interval

**Syntax:**

|           |   |
|-----------|---|
| <30-3600> | Rogue Endpoint Detection Interval. Number range from=30 to=3600 |
|-----------|---|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# endpoint rogue-detect interval <NUMBER>
```

# enforce-subnet-learning

## **enforce-subnet-learning**

**Description:** Subnet learning enforcement

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

### **Command Path:**

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

# enhancedlACP

**enhancedlACP** <lag-policy-name>

**Description:** Configure Enhanced LACP mode on DVS uplink ports

**Syntax:**

|                   |                          |
|-------------------|--------------------------|
| <lag-policy-name> | Enhanced Lag Policy Name |
|-------------------|--------------------------|

**Command Mode:** vmware-domain : Create a VMM VMWare Domain

**Command Path:**

```
# configure [['terminal', 't']]
(config)# vmware-domain <WORD> [delimiter <WORD>] [access-mode <access-mode>]
(config-vmware)# enhancedlACP <lag-policy-name>
```



# ep-flush

## ep-flush

**Description:** Clear remote L2 entries when local vPC L2 entries are cleared

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

### Command Path:

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

# ep-retention-time

**ep-retention-time** <WORD>

**Description:** Retention Time for all End Points in this domain

**Syntax:**

|             |                          |
|-------------|--------------------------|
| <i>WORD</i> | End Point Retention Time |
|-------------|--------------------------|

**Command Mode:** vmware-domain : Create a VMM VMWare Domain

**Command Path:**

```
# configure [['terminal', 't']]
(config)# vmware-domain <WORD> [delimiter <WORD>] [access-mode <access-mode>]
(config-vmware)# ep-retention-time <WORD>
```

# epg

**epg tenant <arg> application <arg> epg <arg>**

**Description:** EPG the Power Device will connect to

**Syntax:**

|             |                          |
|-------------|--------------------------|
| tenant      | Tenant hosting the EPg   |
| <i>arg</i>  |                          |
| application | Application Name         |
| <i>arg</i>  |                          |
| epg         | EPg for the Power Device |
| <i>arg</i>  |                          |

**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)# epg tenant <> application <> epg <>
```

**epg <WORD> [type <WORD>]**

**Description:** AEPg configuration mode

**Syntax:**

|             |                                    |
|-------------|------------------------------------|
| <i>WORD</i> | Application EPG name (Max Size 64) |
| <i>WORD</i> | (Optional) Specify EPG type        |

**Command Mode:** application : application configuration mode

**Command Path:**

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

**epg <WORD>**

**Description:** AEPg configuration mode

**Syntax:**

|             |                                    |
|-------------|------------------------------------|
| <i>WORD</i> | Application EPG name (Max Size 64) |
|-------------|------------------------------------|

**Command Mode:** application : application configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# dnssvrgrp <WORD>
(config-tenant-dnssvrgrp)# application <WORD>
(config-tenant-dnssvrgrp-app)# epg <WORD>
```

# eraseconfig

**eraseconfig [setup]**

**Description:** Erase config and reboot

**Syntax:**

|       |                        |
|-------|------------------------|
| setup | (Optional) Clean setup |
|-------|------------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# eraseconfig [setup]
```

# errdisable recovery cause bpduguard

## errdisable recovery cause bpduguard

**Description:** Enable timer to recover from BPDU Guard error disable

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# errdisable recovery cause bpduguard
```

# errdisable recovery cause ep-move

## errdisable recovery cause ep-move

**Description:** Enable timer to recover from End Point Move error disable

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# errdisable recovery cause ep-move
```

# errdisable recovery cause mcp-loop

## errdisable recovery cause mcp-loop

**Description:** Enable timer to recover from MCP Loop error disable

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]  
(config)# errdisable recovery cause mcp-loop
```



# errdisable recovery interval

**errdisable recovery interval** <NUMBER>

**Description:** Configure Error Disable Recovery Interval

**Syntax:**

|            |   |
|------------|---|
| <30-65535> | Timer-interval (sec). Number range from=30 to=65535 |
|------------|---|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# errdisable recovery interval <NUMBER>
```

# erspan-id

## erspan-id <id>

**Description:** Erspan Id

**Syntax:**

|           |  |
|-----------|--|
| <i>id</i> | erspan Id. Number range from=1 to=1023 |
|-----------|--|

**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)# erspan-id <id>
```

## erspan-id <id>

**Description:** Erspan Id

**Syntax:**

|           |  |
|-----------|--|
| <i>id</i> | erspan Id. Number range from=1 to=1023 |
|-----------|--|

**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)# erspan-id <id>
```

## erspan-id <arg>

**Description:** Erspan Id

**Syntax:**

|            |  |
|------------|--|
| <i>arg</i> | erspan Id. Number range from=1 to=1023 |
|------------|--|

**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)# erspan-id <>
```

**erspan-id <arg>****Description:** Configure ERSPAN ID**Syntax:**

|            |  |
|------------|--|
| <i>arg</i> | ERSPAN ID. Number range from=1 to=1023 |
|------------|--|

**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)# erspan-id <>
```

## erspan-version

### erspan-version <version> [enforce]

**Description:** Set ERSPAN version

**Syntax:**

|                |                    |
|----------------|--------------------|
| <i>version</i> | ERSPAN version     |
| enforce        | (Optional) enforce |

**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)# erspan-version <version> [enforce]
```

### erspan-version <version> [enforce]

**Description:** Set ERSPAN version

**Syntax:**

|                |                    |
|----------------|--------------------|
| <i>version</i> | ERSPAN version     |
| enforce        | (Optional) enforce |

**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)# erspan-version <version> [enforce]
```

### erspan-version <version> [enforce]

**Description:** Set ERSPAN version

**Syntax:**

|                |                    |
|----------------|--------------------|
| <i>version</i> | ERSPAN version     |
| enforce        | (Optional) enforce |

**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)# erspan-version <version> [enforce]
```

## esx-avail-override

**esx-avail-override** <esx-hostname> green|yellow|red

**Description:** Override ESX availability

**Syntax:**

|                |              |
|----------------|--------------|
| <esx-hostname> | ESX Hostname |
| green          | green        |
| yellow         | yellow       |
| red            | red          |

**Command Mode:** vcenter : Configure a vCenter in the VMware domain

**Command Path:**

```
# configure [['terminal', 't']]
(config)# vmware-domain <WORD> [delimiter <WORD>] [access-mode <access-mode>]
(config-vmware)# vcenter <> datacenter <WORD> [dvs-version <>]
(config-vmware-vc)# esx-avail-override <esx-hostname> green|yellow|red
```

# evpn

## evpn route-reflector spine <LIST>

**Description:** Configure BGP evpn route-reflectors

**Syntax:**

|                 |   |
|-----------------|---|
| route-reflector | Configure BGP evpn route-reflectors                               |
| spine           | Configure Spines as route-reflectors                              |
| <i>LIST</i>     | Route-reflector spine node name or ID list. Ex. spine1 or 103,105 |

**Command Mode:** bgp-fabric : Border Gateway Protocol (BGP)

**Command Path:**

```
# configure [['terminal', 't']]
(config)# bgp-fabric
(config-bgp-fabric)# evpn route-reflector spine <LIST>
```

## evpn route-reflector spine <LIST>

**Description:** Configure BGP evpn route-reflectors

**Syntax:**

|                 |   |
|-----------------|---|
| route-reflector | Configure BGP evpn route-reflectors                               |
| spine           | Configure Spines as route-reflectors                              |
| <i>LIST</i>     | Route-reflector spine node name or ID list. Ex. spine1 or 103,105 |

**Command Mode:** bgp : Border Gateway Protocol (BGP)

**Command Path:**

```
# configure [['terminal', 't']]
(config)# pod <NUMBER>
(config-pod)# bgp fabric
(config-pod-bgp)# evpn route-reflector spine <LIST>
```

## evpn consumer

**evpn consumer <WORD>**

**Description:** EVPN Consumer

**Syntax:**

|             |            |
|-------------|------------|
| <i>WORD</i> | Label Name |
|-------------|------------|

**Command Mode:** vrf : Configure VRF parameters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# vrf context tenant <WORD> vrf <WORD> [l3out <l3out>]
(config-leaf-vrf)# evpn consumer <WORD>
```

**evpn consumer <WORD>**

**Description:** EVPN Consumer

**Syntax:**

|             |            |
|-------------|------------|
| <i>WORD</i> | Label Name |
|-------------|------------|

**Command Mode:** vrf : Configure VRF parameters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# vrf context tenant <WORD> vrf <WORD> [l3out <l3out>]
(config-leaf-vrf)# evpn consumer <WORD>
```



# evpn export

**evpn export map <WORD> label <WORD>**

**Description:** VRF export

**Syntax:**

|             |                              |
|-------------|------------------------------|
| map         | Route-map based VRF export   |
| <i>WORD</i> | Route Map Name (Max Size 63) |
| label       | Configure consumer label     |
| <i>WORD</i> | Consumer label name          |

**Command Mode:** vrf : Configure VRF parameters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# vrf context tenant <WORD> vrf <WORD> [l3out <l3out>]
(config-leaf-vrf)# evpn export map <WORD> label <WORD>
```

**evpn export map <WORD> label <WORD>**

**Description:** VRF export

**Syntax:**

|             |                              |
|-------------|------------------------------|
| map         | Route-map based VRF export   |
| <i>WORD</i> | Route Map Name (Max Size 63) |
| label       | Configure consumer label     |
| <i>WORD</i> | Consumer label name          |

**Command Mode:** vrf : Configure VRF parameters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# vrf context tenant <WORD> vrf <WORD> [l3out <l3out>]
(config-leaf-vrf)# evpn export map <WORD> label <WORD>
```

# evpn import

**evpn import map <WORD> label <WORD>**

**Description:** VRF import

**Syntax:**

|             |                              |
|-------------|------------------------------|
| map         | Route-map based VRF import   |
| <i>WORD</i> | Route Map Name (Max Size 63) |
| label       | Configure consumer label     |
| <i>WORD</i> | Consumer label name          |

**Command Mode:** vrf : Configure VRF parameters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# vrf context tenant <WORD> vrf <WORD> [l3out <l3out>]
(config-leaf-vrf)# evpn import map <WORD> label <WORD>
```

**evpn import map <WORD> label <WORD>**

**Description:** VRF import

**Syntax:**

|             |                              |
|-------------|------------------------------|
| map         | Route-map based VRF import   |
| <i>WORD</i> | Route Map Name (Max Size 63) |
| label       | Configure consumer label     |
| <i>WORD</i> | Consumer label name          |

**Command Mode:** vrf : Configure VRF parameters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# vrf context tenant <WORD> vrf <WORD> [l3out <l3out>]
(config-leaf-vrf)# evpn import map <WORD> label <WORD>
```

# evpn provider

**evpn provider <WORD>**

**Description:** EVPN Provider

**Syntax:**

|             |                    |
|-------------|--------------------|
| <i>WORD</i> | Provide Label Name |
|-------------|--------------------|

**Command Mode:** vrf : Configure VRF parameters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# vrf context tenant <WORD> vrf <WORD> [l3out <l3out>]
(config-leaf-vrf)# evpn provider <WORD>
```

**evpn provider <WORD>**

**Description:** EVPN Provider

**Syntax:**

|             |                    |
|-------------|--------------------|
| <i>WORD</i> | Provide Label Name |
|-------------|--------------------|

**Command Mode:** vrf : Configure VRF parameters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# vrf context tenant <WORD> vrf <WORD> [l3out <l3out>]
(config-leaf-vrf)# evpn provider <WORD>
```

# exception

**exception name <WORD> [field <WORD>] [consumer-regexp <WORD>] [provider-regexp <WORD>]**

**Description:** apply an exception to this subject

**Syntax:**

|             |  |
|-------------|--|
| name        | name   |
| <i>WORD</i> | Name of the exception to apply (Max Size None) |
| <i>WORD</i> | (Optional) Filed on which regex applies        |
| <i>WORD</i> | (Optional) consumer regex                      |
| <i>WORD</i> | (Optional) provider regex                      |

**Command Mode:** subject : Configuration a subject on the contract

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# contract <WORD> [type <type>]
(config-tenant-contract)# subject <WORD>
(config-tenant-contract-subj)# exception name <WORD> [field <WORD>] [consumer-regexp <WORD>]
[provider-regexp <WORD>]
```

**exception name <WORD> [field <WORD>] [consumer-regexp <WORD>] [provider-regexp <WORD>]**

**Description:** apply an exception to this subject

**Syntax:**

|             |  |
|-------------|--|
| name        | name   |
| <i>WORD</i> | Name of the exception to apply (Max Size None) |
| <i>WORD</i> | (Optional) Filed on which regex applies        |
| <i>WORD</i> | (Optional) consumer regex                      |
| <i>WORD</i> | (Optional) provider regex                      |

**Command Mode:** contract : Configure binary contracts between Application EPGs

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# contract <WORD> [type <type>]
(config-tenant-contract)# exception name <WORD> [field <WORD>] [consumer-regexp <WORD>]
[provider-regexp <WORD>]
```

# exec

**exec**

**Description:** Exec Mode

**Command Mode:** None

# exit

**exit**

**Description:** Exit from current mode

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# exit
```

# expiration

**expiration** <DATE>

**Description:** If expires enabled, Set expiration date of locally-authenticated user account.

**Syntax:**

|             |  |
|-------------|--|
| <i>DATE</i> | UTC Date format (YYYY-MM-DDTHH:MM:SS.mmm[+-]hh:mm) |
|-------------|--|

**Command Mode:** username : Create a locally-authenticated user account

**Command Path:**

```
# configure [['terminal', 't']]
(config)# username <WORD>
(config-username)# expiration <DATE>
```

# expires

## expires

**Description:** Enable expiry for locally-authenticated user account

**Command Mode:** username : Create a locally-authenticated user account

**Command Path:**

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



# export-config

**export-config** <WORD>

**Description:** Export Configuration

**Syntax:**

|             |                         |
|-------------|-------------------------|
| <i>WORD</i> | Filename(absolute path) |
|-------------|-------------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# export-config <WORD>
```

# export

## export to tenant <WORD> [as <WORD>]

**Description:** Export a contract to another tenant

### Syntax:

|        |  |
|--------|--|
| to     | Tenant to export the command to  |
| tenant | Tenant to export the command to  |
| WORD   | Tenant to export the command to (Max Size 63)                            |
| WORD   | (Optional) New name under which the contract will be known (Max Size 64) |

**Command Mode:** contract : Configure binary contracts between Application EPGs

### Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# contract <WORD> [type <type>]
(config-tenant-contract)# export to tenant <WORD> [as <WORD>]
```

## export map <WORD>

**Description:** VRF export

### Syntax:

|      |                                    |
|------|------------------------------------|
| map  | Route-map for inter VRF route leak |
| WORD | Route Map Name (Max Size 63)       |

**Command Mode:** vrf : Configure VRF parameters

### Command Path:

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

## export map <WORD>

**Description:** VRF export

### Syntax:

|     |                                    |
|-----|------------------------------------|
| map | Route-map for inter VRF route leak |
|-----|------------------------------------|

|             |                              |
|-------------|------------------------------|
| <i>WORD</i> | Route Map Name (Max Size 63) |
|-------------|------------------------------|

**Command Mode:** vrf : Configure VRF parameters

**Command Path:**

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

# exporter

## exporter <WORD>

**Description:** Assign Netflow Exporter to the Monitor

### Syntax:

|             |                             |
|-------------|-----------------------------|
| <i>WORD</i> | Exporter Name (Max Size 64) |
|-------------|-----------------------------|

**Command Mode:** flow monitor : Configure Netflow Monitor

### Command Path:

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

## exporter <WORD>

**Description:** Assign Netflow Exporter to the Monitor

### Syntax:

|             |                             |
|-------------|-----------------------------|
| <i>WORD</i> | Exporter Name (Max Size 64) |
|-------------|-----------------------------|

**Command Mode:** flow monitor : Configure Netflow Monitor

### Command Path:

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

# extcommunity-list expanded

**extcommunity-list expanded <WORD> <LINE>**

**Description:** Configure expanded community list templates

**Syntax:**

|             |                                   |
|-------------|-----------------------------------|
| <i>WORD</i> | Community list name (Max Size 64) |
| <i>LINE</i> | Regular-expression                |

**Command Mode:** template route group : Configure Route Group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template route group <WORD> tenant <WORD>
(config-route-group)# extcommunity-list expanded <WORD> <LINE>
```

**extcommunity-list expanded <WORD> <LINE>**

**Description:** Configure expanded community list templates

**Syntax:**

|             |                                   |
|-------------|-----------------------------------|
| <i>WORD</i> | Community list name (Max Size 64) |
| <i>LINE</i> | Regular-expression                |

**Command Mode:** template route group : Configure Route Group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# template route group <WORD> tenant <WORD>
(config-route-group)# extcommunity-list expanded <WORD> <LINE>
```

## extcommunity-list standard

**extcommunity-list standard <WORD> [scope <scope>] ASN2:NN**

**Description:** Configure standard community list templates

**Syntax:**

|                |   |
|----------------|---|
| <i>WORD</i>    | Community list name (Max Size 64)       |
| <i>scope</i>   | (Optional) transitive or non-transitive |
| <i>ASN2:NN</i> | Community number aa:nn format           |

**Command Mode:** template route group : Configure Route Group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template route group <WORD> tenant <WORD>
(config-route-group)# extcommunity-list standard <WORD> [scope <scope>] ASN2:NN
```

**extcommunity-list standard <WORD> [scope <scope>] ASN2:NN**

**Description:** Configure standard community list templates

**Syntax:**

|                |   |
|----------------|---|
| <i>WORD</i>    | Community list name (Max Size 64)       |
| <i>scope</i>   | (Optional) transitive or non-transitive |
| <i>ASN2:NN</i> | Community number aa:nn format           |

**Command Mode:** template route group : Configure Route Group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# template route group <WORD> tenant <WORD>
(config-route-group)# extcommunity-list standard <WORD> [scope <scope>] ASN2:NN
```

# external-l2

**external-l2 epg <WORD>**

**Description:** L2 external EPG creation/configuration

**Syntax:**

|             |                                    |
|-------------|------------------------------------|
| epg         | L2 external EPG name               |
| <i>WORD</i> | L2 external EPG name (Max Size 64) |

**Command Mode:** tenant : Tenant configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# external-l2 epg <WORD>
```

# external-l3

**external-l3 epg <WORD> <WORD>**

**Description:** External L3 EPG to associate

**Syntax:**

|             |                          |
|-------------|--------------------------|
| epg         | Specify the external EPG |
| <i>WORD</i> | External L3 EPG name     |
| <i>WORD</i> | evpn label name          |

**Command Mode:** vrf : Configure VRF parameters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# vrf context tenant <WORD> vrf <WORD> [l3out <l3out>]
(config-leaf-vrf)# external-l3 epg <WORD> <WORD>
```

**external-l3 epg <WORD> <WORD>**

**Description:** External L3 EPG to associate

**Syntax:**

|             |                          |
|-------------|--------------------------|
| epg         | Specify the external EPG |
| <i>WORD</i> | External L3 EPG name     |
| <i>WORD</i> | evpn label name          |

**Command Mode:** vrf : Configure VRF parameters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# vrf context tenant <WORD> vrf <WORD> [l3out <l3out>]
(config-leaf-vrf)# external-l3 epg <WORD> <WORD>
```



## external-l3 epg

**external-l3 epg <WORD> [oob-mgmt] [l3out <l3out>]**

**Description:** External L3 EPG configuration mode

**Syntax:**

|                 |   |
|-----------------|---|
| <i>WORD</i>     | External L3 EPG name (Max Size 49)                              |
| <i>oob-mgmt</i> | (Optional) External L3 EPG for Out of band                      |
| <i>l3out</i>    | (Optional) Configure external-l3 epg on an API configured L3Out |

**Command Mode:** tenant : Tenant configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# external-l3 epg <WORD> [oob-mgmt] [l3out <l3out>]
```

# external-routed-domain

**external-routed-domain** <l3dom>

**Description:** Add l3Dom to the Resource Pool

**Syntax:**

|              |       |
|--------------|-------|
| <i>l3dom</i> | l3dom |
|--------------|-------|

**Command Mode:** l4l7 resource-pool : Configure L4-L7 Service Resource Pool

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# l4l7 resource-pool <WORD>
(config-resource-pool)# external-routed-domain <l3dom>
```

# external-switch-node

**external-switch-node** <node-name>

**Description:** External Switch Node

**Syntax:**

|                  |           |
|------------------|-----------|
| <i>node-name</i> | node Name |
|------------------|-----------|

**Command Mode:** system external-switch-group : External Switch

**Command Path:**

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





## F Commands

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# fabric-external

**fabric-external** <NUMBER>

**Description:** Intrasite/Intersite Connectivity Profile

**Syntax:**

|      |   |
|------|---|
| <ID> | Fabric ID. Number range from=0 to=9223372036854775807 |
|------|---|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# fabric-external <NUMBER>
```

# fabric-interface ethernet

## fabric-interface ethernet

**Description:** Ethernet IEEE 802.3z

**Syntax:**

|            |                 |
|------------|-----------------|
| <i>arg</i> | interface range |
|------------|-----------------|

**Command Mode:** leaf : Configure Leaf Node

**Command Path:**

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

## fabric-interface ethernet

**Description:** Ethernet IEEE 802.3z

**Syntax:**

|            |                 |
|------------|-----------------|
| <i>arg</i> | interface range |
|------------|-----------------|

**Command Mode:** spine : Configure Spine Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# fabric-interface ethernet
```



# fabric clear

**fabric <nodes> clear <scope>**

**Description:** clear switch information

**Syntax:**

|                      |                |
|----------------------|----------------|
| <i>&lt;nodes&gt;</i> | node list      |
| <i>&lt;scope&gt;</i> | switch command |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# fabric <nodes> clear <scope>
```

**Usage Notes:**

When clearing virtual fibre channel (VFC) interface counters using the **fabric node clear counters interface vfc slot/port** command, allow up to eight seconds after sending the command for the counters to clear.

# fabric show

**fabric <nodes> show <scope>**

**Description:** Show switch information

**Syntax:**

|                      |                |
|----------------------|----------------|
| <i>&lt;nodes&gt;</i> | node list      |
| <i>&lt;scope&gt;</i> | switch command |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# fabric <nodes> show <scope>
```

# fail-auth-epg

**fail-auth-epg tenant <arg> application <arg> epg <arg>**

**Description:** Set default EPg name if authentication fails

**Syntax:**

|             |                                    |
|-------------|------------------------------------|
| tenant      | Tenant hosting the EPg             |
| <i>arg</i>  |                                    |
| application | Application Name                   |
| <i>arg</i>  |                                    |
| epg         | Deploy EPg if authentication fails |
| <i>arg</i>  |                                    |

**Command Mode:** policy-map type port-authentication : Create node level port authentication policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# policy-map type port-authentication <WORD>
(config-pmap-port-authentication)# fail-auth-epg tenant <> application <> epg <>
```

## fail-auth-vlan

**fail-auth-vlan <vlan-id>**

**Description:** Set default vlan encap if authentication fails

**Syntax:**

|                              |                   |
|------------------------------|-------------------|
| <code>&lt;vlan-id&gt;</code> | Configure Vlan ID |
|------------------------------|-------------------|

**Command Mode:** policy-map type port-authentication : Create node level port authentication policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# policy-map type port-authentication <WORD>
(config-pmap-port-authentication)# fail-auth-vlan <vlan-id>
```

# fc-channel-group

## fc-channel-group <WORD>

**Description:** Associate a Channel Group to this Interface

**Syntax:**

|             |                                 |
|-------------|---------------------------------|
| <i>WORD</i> | Port-Channel name (Max Size 64) |
|-------------|---------------------------------|

**Command Mode:** interface fc : FC Interface

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface fc <ifRange>
(config-leaf-fc-if)# fc-channel-group <WORD>
```

## fc-channel-group <WORD>

**Description:** Associate a Channel Group to this Interface

**Syntax:**

|             |                                 |
|-------------|---------------------------------|
| <i>WORD</i> | Port-Channel name (Max Size 64) |
|-------------|---------------------------------|

**Command Mode:** interface fc : FC Interface

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface fc <ifRange>
(config-leaf-fc-if)# fc-channel-group <WORD>
```

# fc-policy-group

## fc-policy-group <WORD>

**Description:** Associate an FC Interface Policy Group to this Interface Group

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | FC Interface Policy Group Name (Max Size 64) |
|-------------|--|

**Command Mode:** leaf-interface-group : Configure Leaf Interface Group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf-interface-profile <WORD>
(config-leaf-if-profile)# leaf-interface-group <WORD>
(config-leaf-if-group)# fc-policy-group <WORD>
```

## fc-policy-group <WORD>

**Description:** Convert interface to FC and Associate FC Policy Group

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | FC Interface Policy Group Name (Max Size 64) |
|-------------|--|

**Command Mode:** interface fc : FC Interface

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface fc <ifRange>
(config-leaf-fc-if)# fc-policy-group <WORD>
```

## fc-policy-group <WORD>

**Description:** Convert interface to FC and Associate FC Policy Group

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | FC Interface Policy Group Name (Max Size 64) |
|-------------|--|

**Command Mode:** interface fc : FC Interface

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface fc <ifRange>
(config-leaf-fc-if)# fc-policy-group <WORD>
```

# fc

## fc

**Description:** Enable fc BD

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

**Command Path:**

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

# fcoe

## fcoe vsan <NUMBER> vlan <NUMBER>

**Description:** Configure fcoe parameters

**Syntax:**

|           |  |
|-----------|--|
| vsan      | Configure Vsan ID                              |
| <vsan-id> | Configure Vsan ID. Number range from=1 to=4093 |
| vlan      | Configure Vlan ID                              |
| <vlan-id> | Configure Vlan ID. Number range from=1 to=4094 |

**Command Mode:** vsan-domain : Configure vsan domain

**Command Path:**

```
# configure [['terminal', 't']]
(config)# vsan-domain <name>
(config-vsan)# fcoe vsan <NUMBER> vlan <NUMBER>
```

## fcoe fcmmap <WORD>

**Description:** Configure fcoe parameters

**Syntax:**

|             |  |
|-------------|--|
| fcmmap      | FC Map   |
| <i>WORD</i> | Configure FC Map, range is from 0E:FC:00 to 0E:FC:FF |

**Command Mode:** template fc-fabric-policy : Configure FC Fabric Policy(Max Size 64)

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template fc-fabric-policy <WORD>
(config-fc-fabric-policy)# fcoe fcmmap <WORD>
```

## fcoe vsan <NUMBER> vlan <NUMBER>

**Description:** Configure fcoe parameters

**Syntax:**

|           |  |
|-----------|--|
| vsan      | Configure Vsan ID                              |
| <vsan-id> | Configure Vsan ID. Number range from=1 to=4093 |
| vlan      | Configure Vlan ID                              |



|           |  |
|-----------|--|
| <vlan-id> | Configure Vlan ID. Number range from=1 to=4094 |
|-----------|--|

**Command Mode:** template vsan-attribute : Configure Vsan Attributes(Max Size 64)

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template vsan-attribute <WORD>
(config-vsan-attr)# fcoe vsan <NUMBER> vlan <NUMBER>
```

# fcoe fcmmap

## fcoe fcmmap <WORD>

**Description:** Configure FC Map

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Configure FC Map, range is from 0E:FC:00 to 0E:FC:FF |
|-------------|--|

**Command Mode:** leaf : Configure Leaf Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# fcoe fcmmap <WORD>
```

## fcoe fcmmap <WORD>

**Description:** Configure FC Map

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Configure FC Map, range is from 0E:FC:00 to 0E:FC:FF |
|-------------|--|

**Command Mode:** spine : Configure Spine Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# fcoe fcmmap <WORD>
```

# fcoe fka-adv-period

## fcoe fka-adv-period <NUMBER>

**Description:** Configure FIP Keep Alive Interval

**Syntax:**

|            |   |
|------------|---|
| <interval> | FIP Keep Alive Timer. Number range from=4 to=60 |
|------------|---|

**Command Mode:** template fc-leaf-policy : Configure FC Leaf Policy(Max Size 64)

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template fc-leaf-policy <WORD>
(config-fc-leaf-policy)# fcoe fka-adv-period <NUMBER>
```

## fcoe fka-adv-period <NUMBER>

**Description:** Configure FIP Keep Alive Interval

**Syntax:**

|            |   |
|------------|---|
| <interval> | FIP Keep Alive Timer. Number range from=4 to=60 |
|------------|---|

**Command Mode:** leaf : Configure Leaf Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# fcoe fka-adv-period <NUMBER>
```

## fcoe fka-adv-period <NUMBER>

**Description:** Configure FIP Keep Alive Interval

**Syntax:**

|            |   |
|------------|---|
| <interval> | FIP Keep Alive Timer. Number range from=4 to=60 |
|------------|---|

**Command Mode:** spine : Configure Spine Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# fcoe fka-adv-period <NUMBER>
```

## fcoe vsan vlan loadbalancing

**fcoe vsan <NUMBER> vlan <NUMBER> loadbalancing src-dst-id|src-dst-ox-id**

**Description:** Configure loadbalancing

**Syntax:**

|               |  |
|---------------|--|
| vsan          | Configure Vsan ID                              |
| <vsan-id>     | Configure Vsan ID. Number range from=1 to=4093 |
| vlan          | Configure Vlan ID                              |
| <vlan-id>     | Configure Vlan ID. Number range from=1 to=4094 |
| src-dst-id    | Load balaning based on src-dst-id              |
| src-dst-ox-id | Load balaning based on the src-dst-ox-id       |

**Command Mode:** vsan-domain : Configure vsan domain

**Command Path:**

```
# configure [['terminal', 't']]
(config)# vsan-domain <name>
(config-vsan)# fcoe vsan <NUMBER> vlan <NUMBER> loadbalancing src-dst-id|src-dst-ox-id
```

**fcoe vsan <NUMBER> vlan <NUMBER> loadbalancing src-dst-id|src-dst-ox-id**

**Description:** Configure loadbalancing

**Syntax:**

|               |  |
|---------------|--|
| vsan          | Configure Vsan ID                              |
| <vsan-id>     | Configure Vsan ID. Number range from=1 to=4093 |
| vlan          | Configure Vlan ID                              |
| <vlan-id>     | Configure Vlan ID. Number range from=1 to=4094 |
| src-dst-id    | Load balaning based on src-dst-id              |
| src-dst-ox-id | Load balaning based on the src-dst-ox-id       |

**Command Mode:** template vsan-attribute : Configure Vsan Attributes(Max Size 64)

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template vsan-attribute <WORD>
(config-vsan-attr)# fcoe vsan <NUMBER> vlan <NUMBER> loadbalancing src-dst-id|src-dst-ox-id
```



## fctimer e-d-tov

### fctimer e-d-tov <NUMBER>

**Description:** Configure e\_d\_tov value

**Syntax:**

|            |  |
|------------|--|
| <interval> | FC Fabric error detect timeout. Number range from=1000 to=4000 |
|------------|--|

**Command Mode:** template fc-fabric-policy : Configure FC Fabric Policy(Max Size 64)

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template fc-fabric-policy <WORD>
(config-fc-fabric-policy)# fctimer e-d-tov <NUMBER>
```

### fctimer e-d-tov <NUMBER>

**Description:** Configure e\_d\_tov value

**Syntax:**

|            |  |
|------------|--|
| <interval> | FC Fabric error detect timeout. Number range from=1000 to=4000 |
|------------|--|

**Command Mode:** leaf : Configure Leaf Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# fctimer e-d-tov <NUMBER>
```

### fctimer e-d-tov <NUMBER>

**Description:** Configure e\_d\_tov value

**Syntax:**

|            |  |
|------------|--|
| <interval> | FC Fabric error detect timeout. Number range from=1000 to=4000 |
|------------|--|

**Command Mode:** spine : Configure Spine Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# fctimer e-d-tov <NUMBER>
```

## fctimer r-a-tov

### fctimer r-a-tov <NUMBER>

**Description:** Configure r\_a\_tov value

**Syntax:**

|            |  |
|------------|--|
| <interval> | FC Fabric resolution allocation timeout. Number range from=5000 to=10000 |
|------------|--|

**Command Mode:** template fc-fabric-policy : Configure FC Fabric Policy(Max Size 64)

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template fc-fabric-policy <WORD>
(config-fc-fabric-policy)# fctimer r-a-tov <NUMBER>
```

### fctimer r-a-tov <NUMBER>

**Description:** Configure r\_a\_tov value

**Syntax:**

|            |  |
|------------|--|
| <interval> | FC Fabric resolution allocation timeout. Number range from=5000 to=10000 |
|------------|--|

**Command Mode:** leaf : Configure Leaf Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# fctimer r-a-tov <NUMBER>
```

### fctimer r-a-tov <NUMBER>

**Description:** Configure r\_a\_tov value

**Syntax:**

|            |  |
|------------|--|
| <interval> | FC Fabric resolution allocation timeout. Number range from=5000 to=10000 |
|------------|--|

**Command Mode:** spine : Configure Spine Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# fctimer r-a-tov <NUMBER>
```

# feature

## **feature analytics|netflow**

**Description:** Select Netflow

**Syntax:**

|           |                  |
|-----------|------------------|
| analytics | Select Analytics |
| netflow   | Select Netflow   |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# node-control policy <WORD>
(config-node)# feature analytics|netflow
```



# fex-interface-group

**fex-interface-group <WORD>**

**Description:** Configure Fex Interface Group

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Fex Interface Group Name (Max Size 64) |
|-------------|--|

**Command Mode:** fex-profile : Configure Fex Profile

**Command Path:**

```
# configure [['terminal', 't']]
(config)# fex-profile <WORD>
(config-fex-profile)# fex-interface-group <WORD>
```

# fex-profile

**fex-profile** <WORD>

**Description:** Configure Fex Profile

**Syntax:**

|             |                                |
|-------------|--------------------------------|
| <i>WORD</i> | Fex Profile Name (Max Size 64) |
|-------------|--------------------------------|

**Command Mode:** configure : Configuration Mode

**Command Path:**

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

# fex

## **fex associate <NUMBER> template <WORD>**

**Description:** Configure Fex on the Interface

**Syntax:**

|               |  |
|---------------|--|
| associate     | Associate the port to a FEX              |
| <i>NUMBER</i> | Fex Number. Number range from=101 to=199 |
| template      | Associate a template                     |
| <i>WORD</i>   | Fex Template Name (Max Size 64)          |

**Command Mode:** leaf-interface-group : Configure Leaf Interface Group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf-interface-profile <WORD>
(config-leaf-if-profile)# leaf-interface-group <WORD>
(config-leaf-if-group)# fex associate <NUMBER> template <WORD>
```

## **fex associate <arg>**

**Description:** Configure Fex on the Interface

**Syntax:**

|            |  |
|------------|--|
| associate  | Associate the port to a FEX              |
| <i>arg</i> | Fex Number. Number range from=101 to=199 |

**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)# fex associate <>
```

## **fex associate <arg>**

**Description:** Configure Fex on the Interface

**Syntax:**

|            |  |
|------------|--|
| associate  | Associate the port to a FEX              |
| <i>arg</i> | Fex Number. Number range from=101 to=199 |

**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)# fex associate <>
```

# file

## file <FILENAME>

**Description:** Snapshot file name

**Syntax:**

|                 |                    |
|-----------------|--------------------|
| <i>FILENAME</i> | Snapshot file name |
|-----------------|--------------------|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# snapshot download <WORD>
(config-download)# file <FILENAME>
```

## file <FILENAME>

**Description:** Snapshot file name

**Syntax:**

|                 |                    |
|-----------------|--------------------|
| <i>FILENAME</i> | Snapshot file name |
|-----------------|--------------------|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# snapshot import <WORD>
(config-import)# file <FILENAME>
```

## file <FILENAME>

**Description:** Snapshot file name

**Syntax:**

|                 |                    |
|-----------------|--------------------|
| <i>FILENAME</i> | Snapshot file name |
|-----------------|--------------------|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# snapshot upload <WORD>
(config-upload)# file <FILENAME>
```

# filter

**filter** <WORD>

**Description:** Set the LDAP filter to be used in a user search

**Syntax:**

|        |  |
|--------|--|
| <WORD> | filter used in user search (Max Size 63) |
|--------|--|

**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)# filter <WORD>
```

# filter tenant application

**filter tenant <tenant\_name> application <application\_name> epg <epg\_name>**

**Description:** application

**Syntax:**

|                         |                                |
|-------------------------|--------------------------------|
| tenant                  | tenant                         |
| <i>tenant_name</i>      | tenant name (Max Size 63)      |
| <i>application_name</i> | application name (Max Size 64) |
| epg                     | epg                            |
| <i>epg_name</i>         | epg name (Max Size 64)         |

**Command Mode:** source interface ethernet : Configure monitor for ethernet access interfaces

**Command Path:**

```
# configure [['terminal', 't']]
(config)# monitor access session <session_name>
(config-monitor-access)# source interface ethernet <ethernet> leaf <leaf Id>
(config-monitor-access-source)# filter tenant <tenant_name> application <application_name>
epg <epg_name>
```

**filter tenant <tenant\_name> application <application\_name> epg <epg\_name>**

**Description:** application

**Syntax:**

|                         |                                |
|-------------------------|--------------------------------|
| tenant                  | tenant                         |
| <i>tenant_name</i>      | tenant name (Max Size 63)      |
| <i>application_name</i> | application name (Max Size 64) |
| epg                     | epg                            |
| <i>epg_name</i>         | epg name (Max Size 64)         |

**Command Mode:** source interface port-channel : Configure monitor for port-channel interfaces

**Command Path:**

```
# configure [['terminal', 't']]
(config)# monitor access session <session_name>
(config-monitor-access)# source interface port-channel <port-channel list> leaf <leaf Id>
[fex <fex Id>]
(config-monitor-access-source)# filter tenant <tenant_name> application <application_name>
epg <epg_name>
```

**filter tenant <tenant\_name> application <application\_name> epg <epg\_name>**

**Description:** application

**Syntax:**

|                         |                                |
|-------------------------|--------------------------------|
| tenant                  | tenant                         |
| <i>tenant_name</i>      | tenant name (Max Size 63)      |
| <i>application_name</i> | application name (Max Size 64) |
| epg                     | epg                            |
| <i>epg_name</i>         | epg name (Max Size 64)         |

**Command Mode:** source interface vpc : Configure monitor for VPC interfaces

**Command Path:**

```
# configure [['terminal', 't']]
(config)# monitor access session <session_name>
(config-monitor-access)# source interface vpc <vpc list> leaf <leaf Id1> <leaf Id2> [fex
<fex Ids>]
(config-monitor-access-source)# filter tenant <tenant_name> application <application_name>
epg <epg_name>
```



# filter tenant bd

**filter tenant <tenant\_name> bd <bd\_name>**

**Description:** BD filter

**Syntax:**

|                    |             |
|--------------------|-------------|
| <i>tenant</i>      | tenant      |
| <i>tenant_name</i> | tenant name |
| <i>bd_name</i>     | BD name     |

**Command Mode:** source interface ethernet : Configure monitor for ethernet fabric interfaces

**Command Path:**

```
# configure [['terminal', 't']]
(config)# monitor fabric session <session_name>
(config-monitor-fabric)# source interface ethernet <ethernet> switch <switch Id>
(config-monitor-fabric-source)# filter tenant <tenant_name> bd <bd_name>
```

## filter tenant l3out

**filter tenant <tenant\_name> l3out <L3Out name> address <IPv4 or IPv6 prefix format> [vlan <vlan>]**

**Description:** L3Out

**Syntax:**

|                                   |                                  |
|-----------------------------------|----------------------------------|
| tenant                            | tenant                           |
| <i>tenant_name</i>                | tenant name (Max Size 63)        |
| <i>L3Out name</i>                 | L3Out name (Max Size 64)         |
| address                           | IP prefix and network mask       |
| <i>IPv4 or IPv6 prefix format</i> | IPv4 or IPv6 prefix format       |
| <i>vlan</i>                       | (Optional) VLAN of the interface |

**Command Mode:** source interface ethernet : Configure monitor for ethernet access interfaces

**Command Path:**

```
# configure [['terminal', 't']]
(config)# monitor access session <session_name>
(config-monitor-access)# source interface ethernet <ethernet> leaf <leaf Id>
(config-monitor-access-source)# filter tenant <tenant_name> l3out <L3Out name> address <IPv4
or IPv6 prefix format> [vlan <vlan>]
```

**filter tenant <tenant\_name> l3out <L3Out name> address <IPv4 or IPv6 prefix format> [vlan <vlan>]**

**Description:** L3Out

**Syntax:**

|                                   |                                  |
|-----------------------------------|----------------------------------|
| tenant                            | tenant                           |
| <i>tenant_name</i>                | tenant name (Max Size 63)        |
| <i>L3Out name</i>                 | L3Out name (Max Size 64)         |
| address                           | IP prefix and network mask       |
| <i>IPv4 or IPv6 prefix format</i> | IPv4 or IPv6 prefix format       |
| <i>vlan</i>                       | (Optional) VLAN of the interface |

**Command Mode:** source interface port-channel : Configure monitor for port-channel interfaces

**Command Path:**

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

```
(config-monitor-access)# source interface port-channel <port-channel list> leaf <leaf Id>
[fex <fex Id>]
(config-monitor-access-source)# filter tenant <tenant_name> l3out <L3Out name> address <IPv4
or IPv6 prefix format> [vlan <vlan>]
```

## filter tenant vrf

**filter tenant <tenant\_name> vrf <vrf\_name>**

**Description:** VRF filter

**Syntax:**

|                    |             |
|--------------------|-------------|
| tenant             | tenant      |
| <i>tenant_name</i> | tenant name |
| <i>vrf_name</i>    | vrf name    |

**Command Mode:** source interface ethernet : Configure monitor for ethernet fabric interfaces

**Command Path:**

```
# configure [['terminal', 't']]
(config)# monitor fabric session <session_name>
(config-monitor-fabric)# source interface ethernet <ethernet> switch <switch Id>
(config-monitor-fabric-source)# filter tenant <tenant_name> vrf <vrf_name>
```

# fips mode

**fips mode enable**

**Description:** Enable FIPS mode

**Syntax:**

|        |                  |
|--------|------------------|
| enable | Enable FIPS mode |
|--------|------------------|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# fips mode enable
```

# firewall-logging

**firewall-logging server-group <WORD> [severity severity <severity-info>][polling-interval <polling-interval>][action-type <action-type>]**

**Description:** Configure firewall-logging on AVS/AVE

**Syntax:**

|                                       |  |
|---------------------------------------|--|
| server-group                          | Specify server group name  |
| <i>WORD</i>                           | Logging server-group name (Max Size 64)  |
| <i>severity &lt;severity-info&gt;</i> | (Optional) Specify severity info   |
| <i>polling-interval</i>               | (Optional) Specify polling interval time in seconds. Number range from=60 to=86400 |
| <i>action-type</i>                    | (Optional) Specify action type   |

**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)# firewall-logging server-group <WORD> [severity severity <severity-info>]
[polling-interval <polling-interval>] [action-type <action-type>]
```

**firewall-logging server-group <WORD> [severity severity <severity-info>][polling-interval <polling-interval>][action-type <action-type>]**

**Description:** Configure firewall-logging on AVS/AVE

**Syntax:**

|                                       |  |
|---------------------------------------|--|
| server-group                          | Specify server group name  |
| <i>WORD</i>                           | Logging server-group name (Max Size 64)  |
| <i>severity &lt;severity-info&gt;</i> | (Optional) Specify severity info   |
| <i>polling-interval</i>               | (Optional) Specify polling interval time in seconds. Number range from=60 to=86400 |
| <i>action-type</i>                    | (Optional) Specify action type   |

**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)# firewall-logging server-group <WORD> [severity severity <severity-info>]
[polling-interval <polling-interval>] [action-type <action-type>]
```

# firewall

## firewall mode enabled|disabled|learning

**Description:** Configure firewall mode on AVS/AVE

**Syntax:**

|          |               |
|----------|---------------|
| mode     | firewall mode |
| enabled  | Enabled mode  |
| disabled | Disabled mode |
| learning | Learning mode |

**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)# firewall mode enabled|disabled|learning
```

## firewall mode enabled|disabled|learning

**Description:** Configure firewall mode on AVS/AVE

**Syntax:**

|          |               |
|----------|---------------|
| mode     | firewall mode |
| enabled  | Enabled mode  |
| disabled | Disabled mode |
| learning | Learning mode |

**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)# firewall mode enabled|disabled|learning
```



# firmware-version

## firmware-version <version>

**Description:** Set target firmware version

**Syntax:**

|           |                  |
|-----------|------------------|
| <version> | firmware version |
|-----------|------------------|

**Command Mode:** controller-group : Controller Upgrade Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# firmware
(config-firmware)# controller-group
(config-firmware-controller)# firmware-version <version>
```

## firmware-version <version>

**Description:** Set target firmware version

**Syntax:**

|           |                  |
|-----------|------------------|
| <version> | firmware version |
|-----------|------------------|

**Command Mode:** switch-group : Create switch firmware upgrade policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# firmware
(config-firmware)# switch-group <WORD>
(config-firmware-switch)# firmware-version <version>
```

# firmware

## firmware

**Description:** Firmware upgrade configuration Mode

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# firmware
```

# firmware repository add

**firmware repository add <WORD>**

**Description:** Add firmware image to repository

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Firmware image filename(absolute path) |
|-------------|--|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# firmware repository add <WORD>
```

# firmware repository delete

**firmware repository delete** <WORD>

**Description:** Remove firmware image from repository

**Syntax:**

|             |                     |
|-------------|---------------------|
| <i>WORD</i> | Firmware image name |
|-------------|---------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# firmware repository delete <WORD>
```

# firmware upgrade controller-group

**firmware upgrade controller-group**

**Description:** Trigger controller-group upgrade

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# firmware upgrade controller-group
```

# firmware upgrade switch-group

**firmware upgrade switch-group** <WORD>

**Description:** Trigger switch-group upgrade

**Syntax:**

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

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# firmware upgrade switch-group <WORD>
```

# first-file

**first-file** <FILENAME>

**Description:** First snapshot file name

**Syntax:**

|                 |                          |
|-----------------|--------------------------|
| <i>FILENAME</i> | First snapshot file name |
|-----------------|--------------------------|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# snapshot rollback <WORD>
(config-rollback)# first-file <FILENAME>
```

# first-hop-security

## first-hop-security

**Description:** Configuration for first hop security

**Command Mode:** tenant : Tenant configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# first-hop-security
```



# first-hop-security security-policy

**first-hop-security security-policy <WORD>**

**Description:** Associate the bridge domain with a first hop security policy

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | first hop security policy name to be associated (Max Size 64) |
|-------------|---|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# bridge-domain <WORD>
(config-tenant-bd)# first-hop-security security-policy <WORD>
```

# first-hop-security trust-control

**first-hop-security trust-control <WORD>**

**Description:** Bind the EPG to a trust control policy

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | trust control to associate (Max Size 64) |
|-------------|--|

**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)# first-hop-security trust-control <WORD>
```

# first-name

**first-name <WORD>**

**Description:** Set the first name of the locally-authenticated user.

**Syntax:**

|             |                          |
|-------------|--------------------------|
| <i>WORD</i> | first name (Max Size 32) |
|-------------|--------------------------|

**Command Mode:** username : Create a locally-authenticated user account

**Command Path:**

```
# configure [['terminal', 't']]
(config)# username <WORD>
(config-username)# first-name <WORD>
```

# flood-on-encapsulation

## flood-on-encapsulation

**Description:** Flood on encapsulation for EPG

**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)# flood-on-encapsulation
```

# flow-exporter

**flow-exporter** <WORD>

**Description:** Configure external analytics reachability information

**Syntax:**

|             |                              |
|-------------|------------------------------|
| <i>WORD</i> | Analytics config server name |
|-------------|------------------------------|

**Command Mode:** analytics : Configure external analytics reachability information

**Command Path:**

```
# configure [['terminal', 't']]
(config)# analytics cluster <WORD>
(config-analytics)# flow-exporter <WORD>
```

# flow direction

## flow direction ingress|egress|both

**Description:** Configure Netflow Direction (Valid only for AVS domain)

### Syntax:

|         |                   |
|---------|-------------------|
| ingress | Ingress Direction |
| egress  | Egress Direction  |
| both    | Bidirectional     |

**Command Mode:** vmware-domain : Associate EPG to a VMWare Domain

### Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# application <WORD>
(config-tenant-app)# epg <WORD> [type <WORD>]
(config-tenant-app-epg)# vmware-domain member <WORD> [encap <WORD>] [primary-encap <WORD>]
[allow-micro-segmentation] [deploy <WORD>] [push <WORD>] [binding-type
staticBinding|dynamicBinding|ephemeral] [port-allocation fixed|elastic] [num-ports <WORD>]
[delimiter <WORD>]
(config-tenant-app-epg-domain)# flow direction ingress|egress|both
```

# flow exporter

## flow exporter <WORD>

**Description:** Configure NetFlow Exporter Policy

**Syntax:**

|             |                          |
|-------------|--------------------------|
| <i>WORD</i> | VMM Exporter Policy Name |
|-------------|--------------------------|

**Command Mode:** configure-dvs : Configure a VMWare Domain as DVS type

**Command Path:**

```
# configure [['terminal', 't']]
(config)# vmware-domain <WORD> [delimiter <WORD>] [access-mode <access-mode>]
(config-vmware)# configure-dvs
(config-vmware-dvs)# flow exporter <WORD>
```

## flow exporter <WORD>

**Description:** Configure NetFlow Exporter Policy

**Syntax:**

|             |                          |
|-------------|--------------------------|
| <i>WORD</i> | VMM Exporter Policy Name |
|-------------|--------------------------|

**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)# flow exporter <WORD>
```

## flow exporter <WORD>

**Description:** Configure NetFlow Exporter Policy

**Syntax:**

|             |                          |
|-------------|--------------------------|
| <i>WORD</i> | VMM Exporter Policy Name |
|-------------|--------------------------|

**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)# flow exporter <WORD>
```

**flow exporter <WORD> destination address <A.B.C.D or A:B::C:D> transport udp <dstPort>**

**Description:** Configure Netflow Exporter

**Syntax:**

|                            |  |
|----------------------------|--|
| <i>WORD</i>                | Exporter Name (Max Size 64)  |
| destination                | Configure destination address  |
| address                    | Configure destination address  |
| <i>A.B.C.D or A:B::C:D</i> | IP address in format i.i.i.i or IPv6 address in format xxxx:xxxx, xxxx::xx |
| transport                  | Configure Transport Port   |
| udp                        | Configure Transport Port   |
| <i>dstPort</i>             | Configure Transport Port   |

**Command Mode:** tenant : Tenant configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# flow exporter <WORD> destination address <A.B.C.D or A:B::C:D> transport
udp <dstPort>
```

**flow exporter <WORD> destination address <A.B.C.D or A:B::C:D> transport udp <dstPort>**

**Description:** Configure Netflow Exporter

**Syntax:**

|                            |  |
|----------------------------|--|
| <i>WORD</i>                | Exporter Name (Max Size 64)  |
| destination                | Configure destination address  |
| address                    | Configure destination address  |
| <i>A.B.C.D or A:B::C:D</i> | IP address in format i.i.i.i or IPv6 address in format xxxx:xxxx, xxxx::xx |
| transport                  | Configure Transport Port   |
| udp                        | Configure Transport Port   |
| <i>dstPort</i>             | Configure Transport Port   |

**Command Mode:** figure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# flow exporter <WORD> destination address <A.B.C.D or A:B::C:D> transport udp
<dstPort>
```



# flow monitor

## flow monitor enable

**Description:** Configure Netflow Monitor

**Syntax:**

|        |                        |
|--------|------------------------|
| enable | Enable Netflow Monitor |
|--------|------------------------|

**Command Mode:** vmware-domain : Associate EPG to a VMWare Domain

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# application <WORD>
(config-tenant-app)# epg <WORD> [type <WORD>]
(config-tenant-app-epg)# vmware-domain member <WORD> [encap <WORD>] [primary-encap <WORD>]
[allow-micro-segmentation] [deploy <WORD>] [push <WORD>] [binding-type
staticBinding|dynamicBinding|ephemeral] [port-allocation fixed|elastic] [num-ports <WORD>]
[delimiter <WORD>]
(config-tenant-app-epg-domain)# flow monitor enable
```

## flow monitor <WORD>

**Description:** Configure Netflow Monitor

**Syntax:**

|             |                            |
|-------------|----------------------------|
| <i>WORD</i> | Monitor Name (Max Size 64) |
|-------------|----------------------------|

**Command Mode:** tenant : Tenant configuration mode

**Command Path:**

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

## flow monitor <WORD>

**Description:** Configure Netflow Monitor

**Syntax:**

|             |                            |
|-------------|----------------------------|
| <i>WORD</i> | Monitor Name (Max Size 64) |
|-------------|----------------------------|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
```

```
(config)# flow monitor <WORD>
```

# flow node-policy

## flow node-policy <WORD>

**Description:** Netflow Node Policy Configuration

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Netflow Node Policy Name (Max Size 64) |
|-------------|--|

**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)# flow node-policy <WORD>
```

## flow node-policy <WORD>

**Description:** Node-policy name

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Netflow Node Policy Name (Max Size 64) |
|-------------|--|

**Command Mode:** leaf : Configure Leaf Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# flow node-policy <WORD>
```

## flow node-policy <WORD>

**Description:** Node-policy name

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Netflow Node Policy Name (Max Size 64) |
|-------------|--|

**Command Mode:** spine : Configure Spine Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# flow node-policy <WORD>
```

**flow node-policy <WORD>****Description:** Configure Netflow Node Policy Parameters**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Netflow Node Policy Name (Max Size 64) |
|-------------|--|

**Command Mode:** configure : Configuration Mode**Command Path:**

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

# flow record

## flow record <WORD>

**Description:** Configure Netflow Record

**Syntax:**

|             |                           |
|-------------|---------------------------|
| <i>WORD</i> | Record Name (Max Size 64) |
|-------------|---------------------------|

**Command Mode:** tenant : Tenant configuration mode

**Command Path:**

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

## flow record <WORD>

**Description:** Configure Netflow Record

**Syntax:**

|             |                             |
|-------------|-----------------------------|
| <i>WORD</i> | Exporter Name (Max Size 64) |
|-------------|-----------------------------|

**Command Mode:** configure : Configuration Mode

**Command Path:**

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

# flow timeout collection

**flow timeout collection** <arg>

**Description:** Collection time interval

**Syntax:**

|            |  |
|------------|--|
| <i>arg</i> | Configure collection timeout value in seconds. Number range from=60 to=36000 |
|------------|--|

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

**Command Path:**

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

# flow timeout template

**flow timeout template <arg>**

**Description:** Template time interval

**Syntax:**

|            |  |
|------------|--|
| <i>arg</i> | Configure template timeout value in seconds. Number range from=60 to=64000 |
|------------|--|

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

**Command Path:**

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

# flow vm-exporter

**flow vm-exporter** <WORD> destination address <A.B.C.D or A:B::C:D> transport udp <dstPort>

**Description:** Configure NetFlow Exporter for VM Networking

**Syntax:**

|                            |  |
|----------------------------|--|
| <i>WORD</i>                | NetFlow Exporter Name (Max Size 64)  |
| destination                | Configure destination address  |
| address                    | Configure destination address  |
| <i>A.B.C.D or A:B::C:D</i> | IP address in format i.i.i.i or IPv6 address in format xxxx:xxxx, xxxx::xx |
| transport                  | Configure Transport Port   |
| udp                        | Configure Transport Port   |
| <i>dstPort</i>             | Configure Transport Port   |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# flow vm-exporter <WORD> destination address <A.B.C.D or A:B::C:D> transport udp
<dstPort>
```



# force-pwd-change

## force-pwd-change

**Description:** Force the user to change password in next login

**Command Mode:** username : Create a locally-authenticated user account

### Command Path:

```
# configure [['terminal', 't']]
(config)# username <WORD>
(config-username)# force-pwd-change
```

# forged-transmits

## forged-transmits accept

**Description:** Enable/disable forged transmits 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)# forged-transmits accept
```

# format

## format xml|short-txt|aml

**Description:** Configure the format of the message

**Syntax:**

|           |           |
|-----------|-----------|
| xml       | Xml       |
| short-txt | Short-txt |
| aml       | Aml       |

**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)# format xml|short-txt|aml
```

## format xml|short-txt|aml

**Description:** Configure the format of the message

**Syntax:**

|           |           |
|-----------|-----------|
| xml       | Xml       |
| short-txt | Short-txt |
| aml       | Aml       |

**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)# format xml|short-txt|aml
```

## format xml|json

**Description:** Snapshot format: xml or json

**Syntax:**

|     |            |
|-----|------------|
| xml | XML format |
|-----|------------|

|      |             |
|------|-------------|
| json | JSON format |
|------|-------------|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# snapshot export <WORD>
(config-export)# format xml|json
```

# forward-error-correction

## forward-error-correction <WORD>

**Description:** Forward Error Correction

**Syntax:**

|             |                               |
|-------------|-------------------------------|
| <i>WORD</i> | Forward Error Correction Mode |
|-------------|-------------------------------|

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

**Command Path:**

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

## forward-error-correction <WORD>

**Description:** Forward Error Correction

**Syntax:**

|             |                               |
|-------------|-------------------------------|
| <i>WORD</i> | Forward Error Correction Mode |
|-------------|-------------------------------|

**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)# forward-error-correction <WORD>
```

## forward-error-correction <WORD>

**Description:** Forward Error Correction

**Syntax:**

|             |                               |
|-------------|-------------------------------|
| <i>WORD</i> | Forward Error Correction Mode |
|-------------|-------------------------------|

**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)# forward-error-correction <WORD>
```

# function-profile

**function-profile <WORD>**

**Description:** Configure function profile container

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Provide a container name for function profiles |
|-------------|--|

**Command Mode:** l4l7 resource-pool : Configure L4-L7 Service Resource Pool

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# l4l7 resource-pool <WORD>
(config-resource-pool)# function-profile <WORD>
```

# fwdnonecn

**fwdnonecn enabled|disabled**

**Description:** Set forwarding for Non ECN (Explicit congestion notification for WRED)

**Syntax:**

|          |                            |
|----------|----------------------------|
| enabled  | Enable non ECN forwarding  |
| disabled | Disable non ECN forwarding |

**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)# fwdnonecn enabled|disabled
```







## G Commands

---

- [global-name](#), on page 464
- [graceful-restart-helper](#), on page 465
- [graceful-restart](#), on page 466
- [group-map-rule](#), on page 468
- [group](#), on page 469
- [groupdn](#), on page 470

# global-name

**global-name** <WORD>

**Description:** Set private network global name

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Private network global name (Max Size 64) |
|-------------|---|

**Command Mode:** vrf : Configuration for vrf

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# vrf context <WORD>
(config-tenant-vrf)# global-name <WORD>
```

# graceful-restart-helper

## graceful-restart-helper

**Description:** Configure BGP Policy Graceful Restart Helper

**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)# graceful-restart-helper
```

## graceful-restart-helper

**Description:** Configure BGP Policy Graceful Restart Helper

**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)# graceful-restart-helper
```

# graceful-restart

## graceful-restart helper-disable

**Description:** Disable OSPF Policy Graceful Restart Helper

**Syntax:**

|                |                        |
|----------------|------------------------|
| helper-disable | disable Restart helper |
|----------------|------------------------|

**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)# graceful-restart helper-disable
```

## graceful-restart stalepath-time <NUMBER>

**Description:** Set BGP Policy Graceful Restart Timers

**Syntax:**

|                |   |
|----------------|---|
| stalepath-time | Maximum time that BGP keeps stale routes from the restarting BGP peer |
| <1-3600>       | Timer Value in Seconds. Number range from=1 to=3600                   |

**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)# graceful-restart stalepath-time <NUMBER>
```

## graceful-restart helper-disable

**Description:** Disable OSPF Policy Graceful Restart Helper

**Syntax:**

|                |                        |
|----------------|------------------------|
| helper-disable | disable Restart helper |
|----------------|------------------------|

**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)# graceful-restart helper-disable
```

### **graceful-restart stalepath-time <NUMBER>**

**Description:** Set BGP Policy Graceful Restart Timers

**Syntax:**

|                |   |
|----------------|---|
| stalepath-time | Maximum time that BGP keeps stale routes from the restarting BGP peer |
| <1-3600>       | Timer Value in Seconds. Number range from=1 to=3600                   |

**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)# graceful-restart stalepath-time <NUMBER>
```

# group-map-rule

**group-map-rule** <WORD>

**Description:** Add LDAP group map rule to LDAP group map

**Syntax:**

|             |                          |
|-------------|--------------------------|
| <i>WORD</i> | LDAP group map rule name |
|-------------|--------------------------|

**Command Mode:** ldap-group-map : LDAP server group map name.

**Command Path:**

```
# configure [['terminal', 't']]
(config)# ldap-group-map <WORD>
(config-ldap-group-map)# group-map-rule <WORD>
```

# group

## group <WORD>

**Description:** Specify server groups

**Syntax:**

|        |                                  |
|--------|----------------------------------|
| <WORD> | Server group name (Max Size 127) |
|--------|----------------------------------|

**Command Mode:** aaa authentication login console : Configure console methods

**Command Path:**

```
# configure [['terminal', 't']]
(config)# aaa authentication login console
(config-console)# group <WORD>
```

## group <WORD>

**Description:** Specify server groups

**Syntax:**

|        |                                  |
|--------|----------------------------------|
| <WORD> | Server group name (Max Size 127) |
|--------|----------------------------------|

**Command Mode:** aaa authentication login default : Configure default methods

**Command Path:**

```
# configure [['terminal', 't']]
(config)# aaa authentication login default
(config-default)# group <WORD>
```

## group <WORD>

**Description:** Set provider group for login domain

**Syntax:**

|        |                                  |
|--------|----------------------------------|
| <WORD> | Server group name (Max Size 127) |
|--------|----------------------------------|

**Command Mode:** aaa authentication login domain : Configure domain methods

**Command Path:**

```
# configure [['terminal', 't']]
(config)# aaa authentication login domain <WORD>
(config-domain)# group <WORD>
```

# groupdn

**groupdn** <WORD>

**Description:** The LDAP group DN for user lookup in the LDAP directory tree

**Syntax:**

|        |   |
|--------|---|
| <WORD> | user lookup in LDAP directory tree (Max Size 127) |
|--------|---|

**Command Mode:** ldap-group-map-rule : LDAP group map rule name.

**Command Path:**

```
# configure [['terminal', 't']]
(config)# ldap-group-map-rule <WORD>
(config-ldap-group-map-rule)# groupdn <WORD>
```





## H Commands

---

- [hello-interval](#), on page 472
- [host-mode](#), on page 473
- [host-rt-leak](#), on page 474
- [hsrp delay](#), on page 475
- [hsrp enable-bfd](#), on page 477
- [hsrp group](#), on page 478
- [hsrp use-bia](#), on page 480
- [hsrp version](#), on page 481
- [http](#), on page 483
- [https](#), on page 484

# hello-interval

**hello-interval** <NUMBER>

**Description:** Hello interval

**Syntax:**

|           |   |
|-----------|---|
| <1-65535> | Interval in seconds. Number range from=1 to=65535 |
|-----------|---|

**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)# hello-interval <NUMBER>
```

**hello-interval** <NUMBER>

**Description:** Hello interval

**Syntax:**

|           |   |
|-----------|---|
| <1-65535> | Interval in seconds. Number range from=1 to=65535 |
|-----------|---|

**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)# hello-interval <NUMBER>
```

# host-mode

**host-mode <arg>**

**Description:** Set host mode

**Syntax:**

|            |           |
|------------|-----------|
| <i>arg</i> | Host mode |
|------------|-----------|

**Command Mode:** switchport port-authentication : Port authentication configuration

**Command Path:**

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

# host-rt-leak

## host-rt-leak enable

**Description:** Configure BGP Host Type2 Routes

**Syntax:**

|        |  |
|--------|--|
| enable | Enabling the host routes type 2 Policy |
|--------|--|

**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)# host-rt-leak enable
```

## host-rt-leak enable

**Description:** Configure BGP Host Type2 Routes

**Syntax:**

|        |  |
|--------|--|
| enable | Enabling the host routes type 2 Policy |
|--------|--|

**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)# host-rt-leak enable
```

# hsrp delay

## hsrp delay minimum|reload <NUMBER>

**Description:** HSRP initialization delay

**Syntax:**

|           |  |
|-----------|--|
| minimum   | Minimum delay                                  |
| reload    | Delay after reload                             |
| <0-10000> | Delay in seconds. Number range from=0 to=10000 |

**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)# hsrp delay minimum|reload <NUMBER>
```

## hsrp delay minimum|reload <NUMBER>

**Description:** HSRP initialization delay

**Syntax:**

|           |  |
|-----------|--|
| minimum   | Minimum delay                                  |
| reload    | Delay after reload                             |
| <0-10000> | Delay in seconds. Number range from=0 to=10000 |

**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)# hsrp delay minimum|reload <NUMBER>
```

## hsrp delay minimum|reload <NUMBER>

**Description:** HSRP initialization delay

**Syntax:**

|         |                    |
|---------|--------------------|
| minimum | Minimum delay      |
| reload  | Delay after reload |

|           |  |
|-----------|--|
| <0-10000> | Delay in seconds. Number range from=0 to=10000 |
|-----------|--|

**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)# hsrp delay minimum|reload <NUMBER>
```

### hsrp delay minimum|reload <NUMBER>

**Description:** HSRP initialization delay

**Syntax:**

|           |  |
|-----------|--|
| minimum   | Minimum delay                                  |
| reload    | Delay after reload                             |
| <0-10000> | Delay in seconds. Number range from=0 to=10000 |

**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)# hsrp delay minimum|reload <NUMBER>
```

# hsrp enable-bfd

## hsrp enable-bfd

**Description:** Enable Bidirectional Forwarding Detection(BFD) protocol

**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)# hsrp enable-bfd
```

## hsrp enable-bfd

**Description:** Enable Bidirectional Forwarding Detection(BFD) protocol

**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)# hsrp enable-bfd
```

## hsrp enable-bfd

**Description:** Enable Bidirectional Forwarding Detection(BFD) protocol

**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)# hsrp enable-bfd
```

## hsrp enable-bfd

**Description:** Enable Bidirectional Forwarding Detection(BFD) protocol

**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)# hsrp enable-bfd
```

# hsrp group

**hsrp group <NUMBER> [['ipv4', 'ipv6']]**

**Description:** Configure HSRP Group

**Syntax:**

|          |  |
|----------|--|
| <0-4095> | Group number(0-255 for v1, 0-4095 for v2). Number range from=0 to=4095 |
| ipv4     | (Optional) Configure IP Version 4 group                                |
| ipv6     | (Optional) Configure IP Version 6 group                                |

**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)# hsrp group <NUMBER> [['ipv4', 'ipv6']]
```

**hsrp group <NUMBER> [['ipv4', 'ipv6']]**

**Description:** Configure HSRP Group

**Syntax:**

|          |  |
|----------|--|
| <0-4095> | Group number(0-255 for v1, 0-4095 for v2). Number range from=0 to=4095 |
| ipv4     | (Optional) Configure IP Version 4 group                                |
| ipv6     | (Optional) Configure IP Version 6 group                                |

**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)# hsrp group <NUMBER> [['ipv4', 'ipv6']]
```

**hsrp group <NUMBER> [['ipv4', 'ipv6']]**

**Description:** Configure HSRP Group

**Syntax:**



|          |  |
|----------|--|
| <0-4095> | Group number(0-255 for v1, 0-4095 for v2). Number range from=0 to=4095 |
| ipv4     | (Optional) Configure IP Version 4 group                                |
| ipv6     | (Optional) Configure IP Version 6 group                                |

**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)# hsrp group <NUMBER> [['ipv4', 'ipv6']]
```

**hsrp group <NUMBER> [['ipv4', 'ipv6']]**

**Description:** Configure HSRP Group

**Syntax:**

|          |  |
|----------|--|
| <0-4095> | Group number(0-255 for v1, 0-4095 for v2). Number range from=0 to=4095 |
| ipv4     | (Optional) Configure IP Version 4 group                                |
| ipv6     | (Optional) Configure IP Version 6 group                                |

**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)# hsrp group <NUMBER> [['ipv4', 'ipv6']]
```

# hsrp use-bia

## hsrp use-bia

**Description:** HSRP uses interfaces burned in address

**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)# hsrp use-bia
```

## hsrp use-bia

**Description:** HSRP uses interfaces burned in address

**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)# hsrp use-bia
```

## hsrp use-bia

**Description:** HSRP uses interfaces burned in address

**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)# hsrp use-bia
```

## hsrp use-bia

**Description:** HSRP uses interfaces burned in address

**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)# hsrp use-bia
```

# hsrp version

## hsrp version 1|2

**Description:** Configure Hsrp Version

**Syntax:**

|   |           |
|---|-----------|
| 1 | Version 1 |
| 2 | Version 2 |

**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)# hsrp version 1|2
```

## hsrp version 1|2

**Description:** Configure Hsrp Version

**Syntax:**

|   |           |
|---|-----------|
| 1 | Version 1 |
| 2 | Version 2 |

**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)# hsrp version 1|2
```

## hsrp version 1|2

**Description:** Configure Hsrp Version

**Syntax:**

|   |           |
|---|-----------|
| 1 | Version 1 |
| 2 | Version 2 |

**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)# hsrp version 1|2
```

### hsrp version 1|2

**Description:** Configure Hsrp Version

**Syntax:**

|   |           |
|---|-----------|
| 1 | Version 1 |
| 2 | Version 2 |

**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)# hsrp version 1|2
```

# http

## http

**Description:** HTTP communication policy group

**Command Mode:** comm-policy : Configure any communication policy, ssh/telnet/shellinabox/http/https

**Command Path:**

```
# configure [['terminal', 't']]
(config)# comm-policy <WORD>
(config-comm-policy)# http
```

# https

## https

**Description:** HTTPS communication policy group

**Command Mode:** comm-policy : Configure any communication policy, ssh/telnet/shellinabox/http/https

**Command Path:**

```
# configure [['terminal', 't']]
(config)# comm-policy <WORD>
(config-comm-policy)# https
```



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# idle-flow-timeout

## idle-flow-timeout <idleFlowTimeout>

**Description:** Configure Idle Flow TimeOut

**Syntax:**

|                        |  |
|------------------------|--|
| <i>idleFlowTimeout</i> | Configure Idle Flow TimeOut. Number range from=10 to=600 |
|------------------------|--|

**Command Mode:** flow exporter : Configure NetFlow Exporter Policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# vmware-domain <WORD> [delimiter <WORD>] [access-mode <access-mode>]
(config-vmware)# configure-dvs
(config-vmware-dvs)# flow exporter <WORD>
(config-vmware-dvs-flow-exporter)# idle-flow-timeout <idleFlowTimeout>
```

## idle-flow-timeout <idleFlowTimeout>

**Description:** Configure Idle Flow TimeOut

**Syntax:**

|                        |  |
|------------------------|--|
| <i>idleFlowTimeout</i> | Configure Idle Flow TimeOut. Number range from=10 to=600 |
|------------------------|--|

**Command Mode:** flow exporter : Configure NetFlow Exporter Policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# vmware-domain <WORD> [delimiter <WORD>] [access-mode <access-mode>]
(config-vmware)# configure-avs
(config-vmware-avs)# flow exporter <WORD>
(config-None)# idle-flow-timeout <idleFlowTimeout>
```

## idle-flow-timeout <idleFlowTimeout>

**Description:** Configure Idle Flow TimeOut

**Syntax:**

|                        |  |
|------------------------|--|
| <i>idleFlowTimeout</i> | Configure Idle Flow TimeOut. Number range from=10 to=600 |
|------------------------|--|

**Command Mode:** flow exporter : Configure NetFlow Exporter Policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# vmware-domain <WORD> [delimiter <WORD>] [access-mode <access-mode>]
(config-vmware)# configure-ave
(config-vmware-ave)# flow exporter <WORD>
```

```
(config-None)# idle-flow-timeout <idleFlowTimeout>
```

# immediacy-immediate

## immediacy-immediate enable

**Description:** Enable/disable immediate immediacy on trunk

**Syntax:**

|        |        |
|--------|--------|
| enable | 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)# immediacy-immediate enable
```

# import-config

**import-config** <WORD>

**Description:** Import Configuration

**Syntax:**

|             |                         |
|-------------|-------------------------|
| <i>WORD</i> | Filename(absolute path) |
|-------------|-------------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# import-config <WORD>
```



# inactivity-timer

**inactivity-timer <arg>**

**Description:** Inactivity Timer for TWAMP Server

**Syntax:**

|            |   |
|------------|---|
| <i>arg</i> | Configure Inactivity Timer for TWAMP Server. Number range from=1 to=65535 |
|------------|---|

**Command Mode:** template twamp server-policy : Configure twamp server policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template twamp server-policy <WORD>
(config-twamp-server-policy)# inactivity-timer <>
```

# inband-mgmt

## inband-mgmt epg <WORD>

**Description:** Enter Inside In-band management mode to modify inband properties or create new inband

### Syntax:

|             |   |
|-------------|---|
| epg         | inband mgmt epg label, usage inband-mgmt epg                      |
| <i>WORD</i> | epg name for inband epg, it can be existing inband epg or new one |

**Command Mode:** tenant : Tenant configuration mode

### Command Path:

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

# inband-mgmt epg

## inband-mgmt epg <WORD>

**Description:** Associate node to a Inband EPG

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Inband End Point Group Name (Max Size 64) |
|-------------|---|

**Command Mode:** interface inband-mgmt0 : Inband management interface

**Command Path:**

```
# configure [['terminal', 't']]
(config)# controller
(config-controller)# interface inband-mgmt0
(config-controller-if)# inband-mgmt epg <WORD>
```

## inband-mgmt epg <WORD>

**Description:** Associate node to a Inband EPG

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Inband End Point Group Name (Max Size 64) |
|-------------|---|

**Command Mode:** interface inband-mgmt0 : Inband management interface

**Command Path:**

```
# configure [['terminal', 't']]
(config)# switch
(config-switch)# interface inband-mgmt0
(config-switch-if)# inband-mgmt epg <WORD>
```

# inherit-from-epg

## inherit-from-epg application <WORD> epg <WORD>

**Description:** EPG settings inheritance

**Syntax:**

|             |   |
|-------------|---|
| application | Application for the EPG where to inherit settings               |
| <i>WORD</i> | Application for the EPG where to inherit settings (Max Size 64) |
| epg         | EPG where to inherit settings                                   |
| <i>WORD</i> | EPG where to inherit settings (Max Size 64)                     |

**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)# inherit-from-epg application <WORD> epg <WORD>
```

## inherit-from-epg epg <WORD>

**Description:** EPG settings inheritance

**Syntax:**

|             |   |
|-------------|---|
| epg         | EPG where to inherit settings               |
| <i>WORD</i> | EPG where to inherit settings (Max Size 64) |

**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)# inherit-from-epg epg <WORD>
```

## inherit-from-epg epg <WORD>

**Description:** EPG settings inheritance

**Syntax:**

|             |   |
|-------------|---|
| epg         | EPG where to inherit settings               |
| <i>WORD</i> | EPG where to inherit settings (Max Size 64) |

**Command Mode:** external-l2 : L2 external EPG creation/configuration

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# external-l2 epg <WORD>
(config-tenant-l2ext-epg)# inherit-from-epg epg <WORD>
```

# inherit

## inherit route-profile <WORD> <WORD>

**Description:** Inherit a policy template

**Syntax:**

|               |                            |
|---------------|----------------------------|
| route-profile | Configure route-profile    |
| WORD          | Route profile name         |
| WORD          | route control context name |

**Command Mode:** template route-profile : Configure route-profile template under tenant for BGP dampening and route redistribution

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template route-profile <WORD> tenant <WORD>
(config-leaf-template-route-profile)# inherit route-profile <WORD> <WORD>
```

## inherit route-profile <WORD> <WORD>

**Description:** Inherit a policy template

**Syntax:**

|               |                            |
|---------------|----------------------------|
| route-profile | Configure route-profile    |
| WORD          | Route profile name         |
| WORD          | route control context name |

**Command Mode:** template route-profile : Configure route-profile template under VRF/L3Out for bridge-domain export

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# vrf context tenant <WORD> vrf <WORD> [l3out <l3out>]
(config-leaf-vrf)# template route-profile <WORD> <WORD> <NUMBER>
(config-leaf-vrf-template-route-profile)# inherit route-profile <WORD> <WORD>
```

## inherit route-profile <WORD> <WORD>

**Description:** Inherit a policy template

**Syntax:**

|               |                            |
|---------------|----------------------------|
| route-profile | Configure route-profile    |
| <i>WORD</i>   | Route profile name         |
| <i>WORD</i>   | route control context name |

**Command Mode:** match bridge-domain : Match subnets of a bridge-domain

**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>]
(config-leaf-vrf-route-map-match)# inherit route-profile <WORD> <WORD>
```

**inherit route-profile <WORD> <WORD>**

**Description:** Inherit a policy template

**Syntax:**

|               |                            |
|---------------|----------------------------|
| route-profile | Configure route-profile    |
| <i>WORD</i>   | Route profile name         |
| <i>WORD</i>   | route control context name |

**Command Mode:** match prefix-list : Match entries of a prefix-list

**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]
(config-leaf-vrf-route-map-match)# inherit route-profile <WORD> <WORD>
```

**inherit route-profile <WORD> <WORD>**

**Description:** Inherit a policy template

**Syntax:**

|               |                            |
|---------------|----------------------------|
| route-profile | Configure route-profile    |
| <i>WORD</i>   | Route profile name         |
| <i>WORD</i>   | route control context name |

**Command Mode:** match route group : Route group

**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]
(config-leaf-vrf-route-map-match)# inherit route-profile <WORD> <WORD>
```

### inherit route tag <WORD>

**Description:** Inherit a policy template

#### Syntax:

|             |                                    |
|-------------|------------------------------------|
| route       | Policy template for routes         |
| tag         | Route tag policy template          |
| <i>WORD</i> | Policy template name (Max Size 64) |

**Command Mode:** vrf : Configure VRF parameters

#### Command Path:

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

### inherit group-policy <WORD>

**Description:** Inherit HSRP Group template policy

#### Syntax:

|              |   |
|--------------|---|
| group-policy | Associate the Group with an HSRP Group policy |
| <i>WORD</i>  | Policy name                                   |

**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)# inherit group-policy <WORD>
```

### inherit group-policy <WORD>

**Description:** Inherit HSRP Group template policy

#### Syntax:

|              |   |
|--------------|---|
| group-policy | Associate the Group with an HSRP Group policy |
|--------------|---|



|             |             |
|-------------|-------------|
| <i>WORD</i> | Policy name |
|-------------|-------------|

**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)# inherit group-policy <WORD>
```

**inherit eigrp vrf-policy <WORD>**

**Description:** Inherit EIGRP VRF Policy under this VRF

**Syntax:**

|             |                          |
|-------------|--------------------------|
| eigrp       | Inherit EIGRP VRF Policy |
| vrf-policy  | Inherit EIGRP VRF Policy |
| <i>WORD</i> | Policy name              |

**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)# inherit eigrp vrf-policy <WORD>
```

**inherit route-profile <WORD> <WORD>**

**Description:** Inherit a policy template

**Syntax:**

|               |                            |
|---------------|----------------------------|
| route-profile | Configure route-profile    |
| <i>WORD</i>   | Route profile name         |
| <i>WORD</i>   | route control context name |

**Command Mode:** template route-profile : Configure route-profile template under tenant for BGP dampening and route redistribution

**Command Path:**

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

```
(config-leaf-template-route-profile)# inherit route-profile <WORD> <WORD>
```

### inherit route-profile <WORD> <WORD>

**Description:** Inherit a policy template

**Syntax:**

|               |                            |
|---------------|----------------------------|
| route-profile | Configure route-profile    |
| <i>WORD</i>   | Route profile name         |
| <i>WORD</i>   | route control context name |

**Command Mode:** template route-profile : Configure route-profile template under VRF/L3Out for bridge-domain export

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# vrf context tenant <WORD> vrf <WORD> [l3out <l3out>]
(config-leaf-vrf)# template route-profile <WORD> <WORD> <NUMBER>
(config-leaf-vrf-template-route-profile)# inherit route-profile <WORD> <WORD>
```

### inherit route-profile <WORD> <WORD>

**Description:** Inherit a policy template

**Syntax:**

|               |                            |
|---------------|----------------------------|
| route-profile | Configure route-profile    |
| <i>WORD</i>   | Route profile name         |
| <i>WORD</i>   | route control context name |

**Command Mode:** match bridge-domain : Match subnets of a bridge-domain

**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>]
(config-leaf-vrf-route-map-match)# inherit route-profile <WORD> <WORD>
```

### inherit route-profile <WORD> <WORD>

**Description:** Inherit a policy template

**Syntax:**

|               |                         |
|---------------|-------------------------|
| route-profile | Configure route-profile |
|---------------|-------------------------|

|             |                            |
|-------------|----------------------------|
| <i>WORD</i> | Route profile name         |
| <i>WORD</i> | route control context name |

**Command Mode:** match prefix-list : Match entries of a prefix-list

**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]
(config-leaf-vrf-route-map-match)# inherit route-profile <WORD> <WORD>
```

**inherit route-profile <WORD> <WORD>**

**Description:** Inherit a policy template

**Syntax:**

|               |                            |
|---------------|----------------------------|
| route-profile | Configure route-profile    |
| <i>WORD</i>   | Route profile name         |
| <i>WORD</i>   | route control context name |

**Command Mode:** match route group : Route group

**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]
(config-leaf-vrf-route-map-match)# inherit route-profile <WORD> <WORD>
```

**inherit route tag <WORD>**

**Description:** Inherit a policy template

**Syntax:**

|             |                                    |
|-------------|------------------------------------|
| route       | Policy template for routes         |
| tag         | Route tag policy template          |
| <i>WORD</i> | Policy template name (Max Size 64) |

**Command Mode:** vrf : Configure VRF parameters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
```

```
(config-spine)# vrf context tenant <WORD> vrf <WORD> [l3out <l3out>]
(config-leaf-vrf)# inherit route tag <WORD>
```

### inherit group-policy <WORD>

**Description:** Inherit HSRP Group template policy

**Syntax:**

|              |   |
|--------------|---|
| group-policy | Associate the Group with an HSRP Group policy |
| <i>WORD</i>  | Policy name                                   |

**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)# inherit group-policy <WORD>
```

### inherit group-policy <WORD>

**Description:** Inherit HSRP Group template policy

**Syntax:**

|              |   |
|--------------|---|
| group-policy | Associate the Group with an HSRP Group policy |
| <i>WORD</i>  | Policy name                                   |

**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)# inherit group-policy <WORD>
```

### inherit eigrp vrf-policy <WORD>

**Description:** Inherit EIGRP VRF Policy under this VRF

**Syntax:**

|             |                          |
|-------------|--------------------------|
| eigrp       | Inherit EIGRP VRF Policy |
| vrf-policy  | Inherit EIGRP VRF Policy |
| <i>WORD</i> | Policy name              |

**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)# inherit eigrp vrf-policy <WORD>
```

# inherit analytics-policy

**inherit analytics-policy cluster <WORD> server <WORD>**

**Description:** Associate an analytics policy

**Syntax:**

|             |                           |
|-------------|---------------------------|
| cluster     | Analytics Cluster         |
| <i>WORD</i> | Name of analytics cluster |
| server      | Analytics Server          |
| <i>WORD</i> | Name of analytics policy  |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# fabric-internal
(config-fabric-internal)# template leaf-policy-group <WORD>
(config-leaf-policy-group)# inherit analytics-policy cluster <WORD> server <WORD>
```

**inherit analytics-policy cluster <WORD> server <WORD>**

**Description:** Associate an analytics policy

**Syntax:**

|             |                           |
|-------------|---------------------------|
| cluster     | Analytics Cluster         |
| <i>WORD</i> | Name of analytics cluster |
| server      | Analytics Server          |
| <i>WORD</i> | Name of analytics policy  |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# fabric-internal
(config-fabric-internal)# template spine-policy-group <WORD>
(config-spine-policy-group)# inherit analytics-policy cluster <WORD> server <WORD>
```

# inherit bfd

**inherit bfd ip|ipv6 <WORD>**

**Description:** BFD Policy

**Syntax:**

|             |              |
|-------------|--------------|
| ip          | IPv4 Address |
| ipv6        | IPv6 Address |
| <i>WORD</i> | BFD Policy   |

**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)# inherit bfd ip|ipv6 <WORD>
```

**inherit bfd ip|ipv6 <WORD>**

**Description:** BFD Policy

**Syntax:**

|             |              |
|-------------|--------------|
| ip          | IPv4 Address |
| ipv6        | IPv6 Address |
| <i>WORD</i> | BFD Policy   |

**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)# inherit bfd ip|ipv6 <WORD>
```

# inherit bgp

## inherit bgp timer <WORD>

**Description:** Inherit VRF specific BGP Timer Policy

**Syntax:**

|             |  |
|-------------|--|
| timer       | Inherit BGP Timer Policy               |
| <i>WORD</i> | BGP Template Policy Name (Max Size 64) |

**Command Mode:** vrf : Virtual Router Context

**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)# inherit bgp timer <WORD>
```

## inherit bgp timer <WORD>

**Description:** Inherit VRF specific BGP Timer Policy

**Syntax:**

|             |  |
|-------------|--|
| timer       | Inherit BGP Timer Policy               |
| <i>WORD</i> | BGP Template Policy Name (Max Size 64) |

**Command Mode:** vrf : Virtual Router Context

**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)# inherit bgp timer <WORD>
```



# inherit bgp address-family

**inherit bgp address-family <WORD>**

**Description:** Inherit BGP Address Family Policy

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | BGP Address Family Policy Name (Max Size 64) |
|-------------|--|

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

**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)# address-family ipv4|ipv6 unicast
(config-leaf-bgp-vrf-af)# inherit bgp address-family <WORD>
```

**inherit bgp address-family <WORD>**

**Description:** Inherit BGP Address Family Policy

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | BGP Address Family Policy Name (Max Size 64) |
|-------------|--|

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

**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)# address-family ipv4|ipv6 unicast
(config-leaf-bgp-vrf-af)# inherit bgp address-family <WORD>
```

# inherit bgp dampening

**inherit bgp dampening <WORD>**

**Description:** Inherit Route Profile with BGP Dampening Policy

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Route Profile with BGP Dampening Policy Name (Max Size 64) |
|-------------|--|

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

**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)# address-family ipv4|ipv6 unicast
(config-leaf-bgp-vrf-af)# inherit bgp dampening <WORD>
```

**inherit bgp dampening <WORD>**

**Description:** Inherit Route Profile with BGP Dampening Policy

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Route Profile with BGP Dampening Policy Name (Max Size 64) |
|-------------|--|

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

**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)# address-family ipv4|ipv6 unicast
(config-leaf-bgp-vrf-af)# inherit bgp dampening <WORD>
```

# inherit dwdm

## inherit dwdm interface-policy <WORD> <NUMBER>

**Description:** DWDM interface policy

**Syntax:**

|                  |  |
|------------------|--|
| interface-policy | Inherit DWDM interface-policy                |
| WORD             | interface policy name (Max Size 64)          |
| <1-96>           | dwdmChannelNumber. Number range from=1 to=96 |

**Command Mode:** template fabric-interface-policy-group : Configure Leaf Fabric Interface Policy Group Parameters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template fabric-interface-policy-group <WORD>
(leaf-fab-pol-grp)# inherit dwdm interface-policy <WORD> <NUMBER>
```

## inherit dwdm interface-policy <WORD> <NUMBER>

**Description:** DWDM interface policy

**Syntax:**

|                  |  |
|------------------|--|
| interface-policy | Inherit DWDM interface-policy                |
| WORD             | interface policy name (Max Size 64)          |
| <1-96>           | dwdmChannelNumber. Number range from=1 to=96 |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template policy-group <WORD>
(config-pol-grp-if)# inherit dwdm interface-policy <WORD> <NUMBER>
```

## inherit dwdm interface-policy <WORD> <NUMBER>

**Description:** DWDM interface policy

**Syntax:**

|                  |                                     |
|------------------|-------------------------------------|
| interface-policy | Inherit DWDM interface-policy       |
| WORD             | interface policy name (Max Size 64) |

|        |  |
|--------|--|
| <1-96> | dwdmChannelNumber. Number range from=1 to=96 |
|--------|--|

**Command Mode:** template spine-fabric-interface-policy-group : Configure Spine Fabric Interface Policy Group Parameters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template spine-fabric-interface-policy-group <WORD>
(spine-fab-pol-grp)# inherit dwdm interface-policy <WORD> <NUMBER>
```

**inherit dwdm interface-policy <WORD>**

**Description:** Inherit DWDM interface policy

**Syntax:**

|                  |   |
|------------------|---|
| interface-policy | Associate the interface with an new DWDM interface policy |
| <i>WORD</i>      | interface policy name (Max Size 64)                       |

**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)# inherit dwdm interface-policy <WORD>
```

**inherit dwdm interface-policy <WORD> <NUMBER>**

**Description:** DWDM interface policy

**Syntax:**

|                  |  |
|------------------|--|
| interface-policy | Inherit DWDM interface-policy                |
| <i>WORD</i>      | interface policy name (Max Size 64)          |
| <1-96>           | dwdmChannelNumber. Number range from=1 to=96 |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# fabric-interface ethernet
(config-leaf-if)# inherit dwdm interface-policy <WORD> <NUMBER>
```

**inherit dwdm interface-policy <WORD>**

**Description:** Inherit DWDM interface policy

**Syntax:**

|                  |   |
|------------------|---|
| interface-policy | Associate the interface with an new DWDM interface policy |
| <i>WORD</i>      | interface policy name (Max Size 64)                       |

**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)# inherit dwdm interface-policy <WORD>
```

**inherit dwdm interface-policy <WORD> <NUMBER>**

**Description:** DWDM interface policy

**Syntax:**

|                  |  |
|------------------|--|
| interface-policy | Inherit DWDM interface-policy                |
| <i>WORD</i>      | interface policy name (Max Size 64)          |
| <1-96>           | dwdmChannelNumber. Number range from=1 to=96 |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# fabric-interface ethernet
(config-leaf-if)# inherit dwdm interface-policy <WORD> <NUMBER>
```

# inherit eigrp

## inherit eigrp ip|ipv6 interface-policy <WORD>

**Description:** Inherit EIGRP interface template policy

**Syntax:**

|                  |  |
|------------------|--|
| ip               | Address Family IPv4                                    |
| ipv6             | Address Family IPv6                                    |
| interface-policy | Associate the interface with an EIGRP interface policy |
| <i>WORD</i>      | Policy name  |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# inherit eigrp ip|ipv6 interface-policy <WORD>
```

## inherit eigrp ip|ipv6 interface-policy <WORD>

**Description:** Inherit EIGRP interface template policy

**Syntax:**

|                  |  |
|------------------|--|
| ip               | Address Family IPv4                                    |
| ipv6             | Address Family IPv6                                    |
| interface-policy | Associate the interface with an EIGRP interface policy |
| <i>WORD</i>      | Policy name  |

**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)# inherit eigrp ip|ipv6 interface-policy <WORD>
```

## inherit eigrp ip|ipv6 interface-policy <WORD>

**Description:** Inherit EIGRP interface template policy

**Syntax:**

|                  |  |
|------------------|--|
| ip               | Address Family IPv4                                    |
| ipv6             | Address Family IPv6                                    |
| interface-policy | Associate the interface with an EIGRP interface policy |
| <i>WORD</i>      | Policy name  |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# inherit eigrp ip|ipv6 interface-policy <WORD>
```

**inherit eigrp ip|ipv6 interface-policy <WORD>**

**Description:** Inherit EIGRP interface template policy

**Syntax:**

|                  |  |
|------------------|--|
| ip               | Address Family IPv4                                    |
| ipv6             | Address Family IPv6                                    |
| interface-policy | Associate the interface with an EIGRP interface policy |
| <i>WORD</i>      | Policy name  |

**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)# inherit eigrp ip|ipv6 interface-policy <WORD>
```

# inherit fc-fabric-policy

**inherit fc-fabric-policy** <WORD>

**Description:** FC Fabric Policy

**Syntax:**

|             |                  |
|-------------|------------------|
| <i>WORD</i> | FC Fabric Policy |
|-------------|------------------|

**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)# inherit fc-fabric-policy <WORD>
```



# inherit fc-leaf-policy

**inherit fc-leaf-policy** <WORD>

**Description:** FC Leaf Policy

**Syntax:**

|             |                |
|-------------|----------------|
| <i>WORD</i> | FC Leaf Policy |
|-------------|----------------|

**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)# inherit fc-leaf-policy <WORD>
```

# inherit hsrp

## inherit hsrp interface-policy <WORD>

**Description:** Inherit HSRP interface template policy

**Syntax:**

|                  |   |
|------------------|---|
| interface-policy | Associate the interface with an HSRP interface policy |
| <i>WORD</i>      | Policy name   |

**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)# inherit hsrp interface-policy <WORD>
```

## inherit hsrp interface-policy <WORD>

**Description:** Inherit HSRP interface template policy

**Syntax:**

|                  |   |
|------------------|---|
| interface-policy | Associate the interface with an HSRP interface policy |
| <i>WORD</i>      | Policy name   |

**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)# inherit hsrp interface-policy <WORD>
```

# inherit ipsla

**inherit ipsla** <WORD>

**Description:** Configure IP SLA Monitoring Policy with PBR

**Syntax:**

|             |                         |
|-------------|-------------------------|
| <i>WORD</i> | IPSLA Monitoring Policy |
|-------------|-------------------------|

**Command Mode:** svcredirect-pol : Configure L4L7 service redirection policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# svcredirect-pol <WORD>
(svcredirect-pol)# inherit ipsla <WORD>
```

# inherit ipv4

## inherit ipv4 ospf vrf-policy <WORD>

**Description:** Inherit OSPF Template Policy under this VRF

**Syntax:**

|             |   |
|-------------|---|
| ospf        | Inherit OSPF Policy                     |
| vrf-policy  | Inherit OSPF vrf-policy                 |
| <i>WORD</i> | OSPF Template Policy name (Max Size 64) |

**Command Mode:** vrf : Associate Router OSPF Policy with Tenant/VRF

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# router ospf default|multipod-internal
(config-leaf-ospf)# vrf member tenant <WORD> vrf <WORD>
(config-leaf-ospf-vrf)# inherit ipv4 ospf vrf-policy <WORD>
```

## inherit ipv4 ospf vrf-policy <WORD>

**Description:** Inherit OSPF Template Policy under this VRF

**Syntax:**

|             |   |
|-------------|---|
| ospf        | Inherit OSPF Policy                     |
| vrf-policy  | Inherit OSPF vrf-policy                 |
| <i>WORD</i> | OSPF Template Policy name (Max Size 64) |

**Command Mode:** vrf : Associate Router OSPF Policy with Tenant/VRF

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# router ospf default|multipod-internal
(config-leaf-ospf)# vrf member tenant <WORD> vrf <WORD>
(config-leaf-ospf-vrf)# inherit ipv4 ospf vrf-policy <WORD>
```

# inherit ipv6-nd

## inherit ipv6-nd prefix <WORD> <WORD>

**Description:** Inherit IPv6 Neighbor Discovery Prefix template policy

**Syntax:**

|        |  |
|--------|--|
| prefix | Associate a ND Prefix policy with an IPv6 Prefix |
| WORD   | WORD   |
| WORD   | ND Prefix Policy name                            |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# inherit ipv6-nd prefix <WORD> <WORD>
```

## inherit ipv6-nd prefix <WORD> <WORD>

**Description:** Inherit IPv6 Neighbor Discovery Prefix template policy

**Syntax:**

|        |  |
|--------|--|
| prefix | Associate a ND Prefix policy with an IPv6 Prefix |
| WORD   | WORD   |
| WORD   | ND Prefix Policy name                            |

**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)# inherit ipv6-nd prefix <WORD> <WORD>
```

## inherit ipv6-nd prefix <WORD> <WORD>

**Description:** Inherit IPv6 Neighbor Discovery Prefix template policy

**Syntax:**

|        |  |
|--------|--|
| prefix | Associate a ND Prefix policy with an IPv6 Prefix |
| WORD   | WORD   |

|             |                       |
|-------------|-----------------------|
| <i>WORD</i> | ND Prefix Policy name |
|-------------|-----------------------|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# inherit ipv6-nd prefix <WORD> <WORD>
```

**inherit ipv6-nd prefix <WORD> <WORD>**

**Description:** Inherit IPv6 Neighbor Discovery Prefix template policy

**Syntax:**

|             |  |
|-------------|--|
| prefix      | Associate a ND Prefix policy with an IPv6 Prefix |
| <i>WORD</i> | WORD   |
| <i>WORD</i> | ND Prefix Policy name                            |

**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)# inherit ipv6-nd prefix <WORD> <WORD>
```

# inherit ipv6

## inherit ipv6 nd <WORD>

**Description:** Inherit IPv6 Neighbor Discovery template policy

**Syntax:**

|      |  |
|------|--|
| nd   | Associate the interface with an IPv6 Neighbor Discovery policy |
| WORD | Policy name  |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# inherit ipv6 nd <WORD>
```

## inherit ipv6 nd <WORD>

**Description:** Inherit IPv6 Neighbor Discovery template policy

**Syntax:**

|      |  |
|------|--|
| nd   | Associate the interface with an IPv6 Neighbor Discovery policy |
| WORD | Policy name  |

**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)# inherit ipv6 nd <WORD>
```

## inherit ipv6 ospf vrf-policy <WORD>

**Description:** Inherit OSPF Template Policy under this VRF

**Syntax:**

|            |   |
|------------|---|
| ospf       | Inherit OSPF Policy                     |
| vrf-policy | Inherit OSPF vrf-policy                 |
| WORD       | OSPF Template Policy name (Max Size 64) |

**Command Mode:** vrf : Associate Router OSPF Policy with Tenant/VRF

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# router ospf default|multipod-internal
(config-leaf-ospf)# vrf member tenant <WORD> vrf <WORD>
(config-leaf-ospf-vrf)# inherit ipv6 ospf vrf-policy <WORD>
```

**inherit ipv6 nd <WORD>**

**Description:** Inherit IPv6 Neighbor Discovery template policy

**Syntax:**

|             |  |
|-------------|--|
| nd          | Associate the interface with an IPv6 Neighbor Discovery policy |
| <i>WORD</i> | Policy name  |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# inherit ipv6 nd <WORD>
```

**inherit ipv6 nd <WORD>**

**Description:** Inherit IPv6 Neighbor Discovery template policy

**Syntax:**

|             |  |
|-------------|--|
| nd          | Associate the interface with an IPv6 Neighbor Discovery policy |
| <i>WORD</i> | Policy name  |

**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)# inherit ipv6 nd <WORD>
```

**inherit ipv6 ospf vrf-policy <WORD>**

**Description:** Inherit OSPF Template Policy under this VRF

**Syntax:**

|            |                         |
|------------|-------------------------|
| ospf       | Inherit OSPF Policy     |
| vrf-policy | Inherit OSPF vrf-policy |



|             |   |
|-------------|---|
| <i>WORD</i> | OSPF Template Policy name (Max Size 64) |
|-------------|---|

**Command Mode:** vrf : Associate Router OSPF Policy with Tenant/VRF

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# router ospf default|multipod-internal
(config-leaf-ospf)# vrf member tenant <WORD> vrf <WORD>
(config-leaf-ospf-vrf)# inherit ipv6 ospf vrf-policy <WORD>
```

# inherit isis-fabric

**inherit isis-fabric** <WORD>

**Description:** InterSystem-InterSystem Protocol (IS-IS)

**Syntax:**

|             |                                     |
|-------------|-------------------------------------|
| <i>WORD</i> | IS-IS Fabric template (Max Size 64) |
|-------------|-------------------------------------|

**Command Mode:** template pod-group : POD Group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template pod-group <WORD>
(config-pod-group)# inherit isis-fabric <WORD>
```

# inherit macsec-fabric

**inherit macsec-fabric <WORD>**

**Description:** MAC security fabric interface policy name

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | MAC security fabric interface policy name (Max Size 64) |
|-------------|---|

**Command Mode:** template pod-group : POD Group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template pod-group <WORD>
(config-pod-group)# inherit macsec-fabric <WORD>
```

# inherit macsec

## inherit macsec interface-policy <WORD>

**Description:** MAC security interface policy

**Syntax:**

|                  |                                       |
|------------------|---------------------------------------|
| interface-policy | Inherit MAC Security interface-policy |
| <i>WORD</i>      | interface policy name (Max Size 64)   |

**Command Mode:** template fabric-interface-policy-group : Configure Leaf Fabric Interface Policy Group Parameters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template fabric-interface-policy-group <WORD>
(leaf-fab-pol-grp)# inherit macsec interface-policy <WORD>
```

## inherit macsec interface-policy <WORD>

**Description:** MAC security interface policy

**Syntax:**

|                  |                                       |
|------------------|---------------------------------------|
| interface-policy | Inherit MAC Security interface-policy |
| <i>WORD</i>      | interface policy name (Max Size 64)   |

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

**Command Path:**

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

## inherit macsec interface-policy <WORD>

**Description:** MAC security interface policy

**Syntax:**

|                  |                                       |
|------------------|---------------------------------------|
| interface-policy | Inherit MAC Security interface-policy |
| <i>WORD</i>      | interface policy name (Max Size 64)   |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template port-channel <WORD>
(config-po-ch-if)# inherit macsec interface-policy <WORD>
```

**inherit macsec interface-policy <WORD>**

**Description:** MAC security interface policy

**Syntax:**

|                  |                                       |
|------------------|---------------------------------------|
| interface-policy | Inherit MAC Security interface-policy |
| <i>WORD</i>      | interface policy name (Max Size 64)   |

**Command Mode:** template spine-fabric-interface-policy-group : Configure Spine Fabric Interface Policy Group Parameters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template spine-fabric-interface-policy-group <WORD>
(spine-fab-pol-grp)# inherit macsec interface-policy <WORD>
```

**inherit macsec interface-policy <WORD>**

**Description:** MAC security interface policy

**Syntax:**

|                  |                                       |
|------------------|---------------------------------------|
| interface-policy | Inherit MAC Security interface-policy |
| <i>WORD</i>      | interface policy name (Max Size 64)   |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template spine-interface-policy-group <WORD>
(config-spine-if-pol-grp)# inherit macsec interface-policy <WORD>
```

**inherit macsec interface-policy <WORD>**

**Description:** Inherit MAC security interface policy

**Syntax:**

|                  |   |
|------------------|---|
| interface-policy | Associate the interface with an MAC security interface policy |
| <i>WORD</i>      | interface policy name (Max Size 64)                           |

**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)# inherit macsec interface-policy <WORD>
```

**inherit macsec interface-policy <WORD>**

**Description:** Inherit MAC security interface policy

**Syntax:**

|                  |   |
|------------------|---|
| interface-policy | Associate the interface with an MAC security interface policy |
| <i>WORD</i>      | interface policy name (Max Size 64)                           |

**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)# inherit macsec interface-policy <WORD>
```

**inherit macsec interface-policy <WORD>**

**Description:** MAC security interface policy

**Syntax:**

|                  |                                       |
|------------------|---------------------------------------|
| interface-policy | Inherit MAC Security interface-policy |
| <i>WORD</i>      | interface policy name (Max Size 64)   |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# fabric-interface ethernet
(config-leaf-if)# inherit macsec interface-policy <WORD>
```

**inherit macsec interface-policy <WORD>**

**Description:** Inherit MAC security interface policy

**Syntax:**

|                  |   |
|------------------|---|
| interface-policy | Associate the interface with an MAC security interface policy |
| <i>WORD</i>      | interface policy name (Max Size 64)                           |

**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)# inherit macsec interface-policy <WORD>
```

**inherit macsec interface-policy <WORD>**

**Description:** Inherit MAC security interface policy

**Syntax:**

|                  |   |
|------------------|---|
| interface-policy | Associate the interface with an MAC security interface policy |
| <i>WORD</i>      | interface policy name (Max Size 64)                           |

**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)# inherit macsec interface-policy <WORD>
```

**inherit macsec interface-policy <WORD>**

**Description:** MAC security interface policy

**Syntax:**

|                  |                                       |
|------------------|---------------------------------------|
| interface-policy | Inherit MAC Security interface-policy |
| <i>WORD</i>      | interface policy name (Max Size 64)   |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# fabric-interface ethernet
(config-leaf-if)# inherit macsec interface-policy <WORD>
```

**inherit macsec interface-policy <WORD>**

**Description:** Inherit MAC security interface policy

**Syntax:**

|                  |   |
|------------------|---|
| interface-policy | Associate the interface with an MAC security interface policy |
| <i>WORD</i>      | interface policy name (Max Size 64)                           |

**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)# inherit macsec interface-policy <WORD>
```



# inherit macsec security-policy auto-key-generation

**inherit macsec security-policy <WORD> auto-key-generation**

**Description:** Use auto key generation

**Syntax:**

|             |                                  |
|-------------|----------------------------------|
| <i>WORD</i> | macsec policy name (Max Size 64) |
|-------------|----------------------------------|

**Command Mode:** template macsec access|fabric interface-policy : Configure macsec interface policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template macsec access|fabric interface-policy <WORD>
(config-macsec-if-policy)# inherit macsec security-policy <WORD> auto-key-generation
```

# inherit macsec security-policy keychain

**inherit macsec security-policy <WORD> keychain <WORD>**

**Description:** key chain

**Syntax:**

|             |                                  |
|-------------|----------------------------------|
| <i>WORD</i> | macsec policy name (Max Size 64) |
| <i>WORD</i> | Keychain name (Max Size 64)      |

**Command Mode:** template macsec access|fabric interface-policy : Configure macsec interface policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template macsec access|fabric interface-policy <WORD>
(config-macsec-if-policy)# inherit macsec security-policy <WORD> keychain <WORD>
```

# inherit node-control-policy

**inherit node-control-policy <WORD>**

**Description:** Associate an node-control policy

**Syntax:**

|             |                             |
|-------------|-----------------------------|
| <i>WORD</i> | Name of node-control policy |
|-------------|-----------------------------|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# fabric-internal
(config-fabric-internal)# template leaf-policy-group <WORD>
(config-leaf-policy-group)# inherit node-control-policy <WORD>
```

**inherit node-control-policy <WORD>**

**Description:** Associate an node-control policy

**Syntax:**

|             |                             |
|-------------|-----------------------------|
| <i>WORD</i> | Name of node-control policy |
|-------------|-----------------------------|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# fabric-internal
(config-fabric-internal)# template spine-policy-group <WORD>
(config-spine-policy-group)# inherit node-control-policy <WORD>
```

# inherit node-only

## inherit node-only bgp timer <WORD>

**Description:** Inherit node specific BGP Timer Policy

**Syntax:**

|             |  |
|-------------|--|
| bgp         | Inherit BGP Timer Policy               |
| timer       | Inherit BGP Timer Policy               |
| <i>WORD</i> | BGP Template Policy Name (Max Size 64) |

**Command Mode:** vrf : Virtual Router Context

**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)# inherit node-only bgp timer <WORD>
```

## inherit node-only bgp timer <WORD>

**Description:** Inherit node specific BGP Timer Policy

**Syntax:**

|             |  |
|-------------|--|
| bgp         | Inherit BGP Timer Policy               |
| timer       | Inherit BGP Timer Policy               |
| <i>WORD</i> | BGP Template Policy Name (Max Size 64) |

**Command Mode:** vrf : Virtual Router Context

**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)# inherit node-only bgp timer <WORD>
```

# inherit ntp-fabric

**inherit ntp-fabric** <WORD>

**Description:** Network Time Protocol (NTP)

**Syntax:**

|             |                                   |
|-------------|-----------------------------------|
| <i>WORD</i> | NTP Fabric template (Max Size 64) |
|-------------|-----------------------------------|

**Command Mode:** template pod-group : POD Group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template pod-group <WORD>
(config-pod-group)# inherit ntp-fabric <WORD>
```

# inherit pod-group

**inherit pod-group** <WORD>

**Description:** Pod Group

**Syntax:**

|             |                              |
|-------------|------------------------------|
| <i>WORD</i> | Pod Group Name (Max Size 64) |
|-------------|------------------------------|

**Command Mode:** pods : Set of PODs

**Command Path:**

```
# configure [['terminal', 't']]
(config)# pod-profile <WORD>
(config-pod-profile)# pods <1-255>
(config-pod-profile-pods)# inherit pod-group <WORD>
```

# inherit snmp-fabric

**inherit snmp-fabric <WORD>**

**Description:** Simple Network Management Protocol (SNMP)

**Syntax:**

|             |                                    |
|-------------|------------------------------------|
| <i>WORD</i> | SNMP Fabric template (Max Size 64) |
|-------------|------------------------------------|

**Command Mode:** template pod-group : POD Group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template pod-group <WORD>
(config-pod-group)# inherit snmp-fabric <WORD>
```

# inherit twamp-responder-policy

**inherit twamp-responder-policy <WORD>**

**Description:** Associate a twamp-responder policy

**Syntax:**

|             |                                |
|-------------|--------------------------------|
| <i>WORD</i> | Name of twamp-responder policy |
|-------------|--------------------------------|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# fabric-internal
(config-fabric-internal)# template leaf-policy-group <WORD>
(config-leaf-policy-group)# inherit twamp-responder-policy <WORD>
```

**inherit twamp-responder-policy <WORD>**

**Description:** Associate a twamp-responder policy

**Syntax:**

|             |                                |
|-------------|--------------------------------|
| <i>WORD</i> | Name of twamp-responder policy |
|-------------|--------------------------------|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# fabric-internal
(config-fabric-internal)# template spine-policy-group <WORD>
(config-spine-policy-group)# inherit twamp-responder-policy <WORD>
```



# inherit twamp-server-policy

**inherit twamp-server-policy <WORD>**

**Description:** Associate a twamp-server policy

**Syntax:**

|             |                             |
|-------------|-----------------------------|
| <i>WORD</i> | Name of twamp-server policy |
|-------------|-----------------------------|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# fabric-internal
(config-fabric-internal)# template leaf-policy-group <WORD>
(config-leaf-policy-group)# inherit twamp-server-policy <WORD>
```

**inherit twamp-server-policy <WORD>**

**Description:** Associate a twamp-server policy

**Syntax:**

|             |                             |
|-------------|-----------------------------|
| <i>WORD</i> | Name of twamp-server policy |
|-------------|-----------------------------|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# fabric-internal
(config-fabric-internal)# template spine-policy-group <WORD>
(config-spine-policy-group)# inherit twamp-server-policy <WORD>
```

# inherit vsan-attribute

**inherit vsan-attribute** <WORD>

**Description:** Configure Vsan Attribute Policy

**Syntax:**

|             |                                 |
|-------------|---------------------------------|
| <i>WORD</i> | Configure Vsan Attribute Policy |
|-------------|---------------------------------|

**Command Mode:** vsan-domain : Configure vsan domain

**Command Path:**

```
# configure [['terminal', 't']]
(config)# vsan-domain <name>
(config-vsan)# inherit vsan-attribute <WORD>
```

# inst-pol

**inst-pol** <WORD> <vmm-domain> <ctrlr> <vm-template> <resource-pool> <datastore>

**Description:** Configure L4L7 service vm instantiation policy

**Syntax:**

|                      |  |
|----------------------|--|
| <i>WORD</i>          | service vm instantiation policy name (Max Size 16) |
| <i>vmm-domain</i>    | Select Domain                                      |
| <i>ctrlr</i>         | Select ctrlr                                       |
| <i>vm-template</i>   | Select vcenter under domain                        |
| <i>resource-pool</i> | Select resourcepool for instpol                    |
| <i>datastore</i>     | select datastore                                   |

**Command Mode:** tenant : Tenant configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# inst-pol <WORD> <vmm-domain> <ctrlr> <vm-template> <resource-pool>
<datastore>
```

# instance

**instance** <NUMBER> vlan <RANGE>

**Description:** Maps VLANs to an MST instance

**Syntax:**

|          |  |
|----------|--|
| <1-4094> | MST instance ID. Number range from=1 to=4094 |
| vlan     | Virtual LAN                                  |
| RANGE    | VLAN range. Ex.: 10-3000                     |

**Command Mode:** region : STP MST region configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spanning-tree mst configuration
(config-stp)# region <WORD>
(config-stp-region)# instance <NUMBER> vlan <RANGE>
```

# interface

## interface bridge-domain <WORD>

**Description:** Configuration for interface bridge-domain

**Syntax:**

|               |   |
|---------------|---|
| bridge-domain | Name of the bridge-domain               |
| WORD          | Name of the bridge-domain (Max Size 64) |

**Command Mode:** tenant : Tenant configuration mode

**Command Path:**

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

## interface ethernet

**Description:** Provide a Range of Interfaces

**Syntax:**

|          |                              |
|----------|------------------------------|
| ethernet | Configure Physical Interface |
| arg      | Provide range of Interfaces  |

**Command Mode:** spine-interface-group : Configure Spine Interface Group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine-interface-profile <WORD>
(config-spine-if-profile)# spine-interface-group <WORD>
(config-spine-if-group)# interface ethernet
```

## interface ethernet

**Description:** Configure Ports on the Fex Interface Group

**Syntax:**

|          |                              |
|----------|------------------------------|
| ethernet | Configure Physical Interface |
| arg      | Provide range of Interfaces  |

**Command Mode:** fex-interface-group : Configure Fex Interface Group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# fex-profile <WORD>
(config-fex-profile)# fex-interface-group <WORD>
(config-fex-if-group)# interface ethernet
```

### interface ethernet

**Description:** Provide a Range of Interfaces

**Syntax:**

|            |                              |
|------------|------------------------------|
| ethernet   | Configure Physical Interface |
| <i>arg</i> | Provide range of Interfaces  |

**Command Mode:** leaf-interface-group : Configure Leaf Interface Group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# fabric-internal
(config-fabric-internal)# leaf-interface-profile <WORD>
(config-leaf-if-profile)# leaf-interface-group <WORD>
(config-leaf-if-group)# interface ethernet
```

### interface ethernet

**Description:** Provide a Range of Interfaces

**Syntax:**

|            |                              |
|------------|------------------------------|
| ethernet   | Configure Physical Interface |
| <i>arg</i> | Provide range of Interfaces  |

**Command Mode:** spine-interface-group : Configure Spine Interface Group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# fabric-internal
(config-fabric-internal)# spine-interface-profile <WORD>
(config-spine-if-profile)# spine-interface-group <WORD>
(config-spine-if-group)# interface ethernet
```

### interface vpc <WORD> [fex <fex>]

**Description:** Provide VPC Name

**Syntax:**

|             |                        |
|-------------|------------------------|
| vpc         | VPC Interface          |
| <i>WORD</i> | VPC Name (Max Size 64) |

|            |   |
|------------|---|
| <i>fex</i> | (Optional) Fex Id. Number range from=101 to=199 |
|------------|---|

**Command Mode:** vpc context : Enter vpc context

**Command Path:**

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

# interface ethernet

## interface ethernet <ethernet> leaf <leaf-id>

**Description:** Configure Physical Ethernet Port as a Cluster Member Interface

**Syntax:**

|            |   |
|------------|---|
| <ethernet> | List of ethernet itfs   |
| leaf       | Leaf ID that connects to cluster ethernet interface on (physical) device. |
| <leaf-id>  | Leaf ID that connects to cluster ethernet interface on (physical) device. |

**Command Mode:** member : Configure Cluster Interface Member

**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>
(config-member)# interface ethernet <ethernet> leaf <leaf-id>
```

## interface ethernet

**Description:** Provide a Range of Interfaces

**Syntax:**

|     |                             |
|-----|-----------------------------|
| arg | Provide range of Interfaces |
|-----|-----------------------------|

**Command Mode:** leaf-interface-group : Configure Leaf Interface Group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf-interface-profile <WORD>
(config-leaf-if-profile)# leaf-interface-group <WORD>
(config-leaf-if-group)# interface ethernet
```

## interface ethernet <ifRange>

**Description:** Ethernet IEEE 802.3z

**Syntax:**

|           |                 |
|-----------|-----------------|
| <ifRange> | interface Range |
|-----------|-----------------|

**Command Mode:** leaf : Configure Leaf Node



**Command Path:**

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

**interface ethernet <ifRange>****Description:** Ethernet IEEE 802.3z**Syntax:**

|                        |                 |
|------------------------|-----------------|
| <i>&lt;ifRange&gt;</i> | interface Range |
|------------------------|-----------------|

**Command Mode:** spine : Configure Spine Node**Command Path:**

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

# interface fc-port-channel

## interface fc-port-channel <WORD>

**Description:** FC Port Channel

**Syntax:**

|             |                                 |
|-------------|---------------------------------|
| <i>WORD</i> | Port-Channel Name (Max Size 64) |
|-------------|---------------------------------|

**Command Mode:** leaf : Configure Leaf Node

**Command Path:**

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

## interface fc-port-channel <WORD>

**Description:** FC Port Channel

**Syntax:**

|             |                                 |
|-------------|---------------------------------|
| <i>WORD</i> | Port-Channel Name (Max Size 64) |
|-------------|---------------------------------|

**Command Mode:** spine : Configure Spine Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface fc-port-channel <WORD>
```

# interface fc

## interface fc

**Description:** Configure a native FC Interface

**Syntax:**

|            |                             |
|------------|-----------------------------|
| <i>arg</i> | Provide range of Interfaces |
|------------|-----------------------------|

**Command Mode:** leaf-interface-group : Configure Leaf Interface Group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf-interface-profile <WORD>
(config-leaf-if-profile)# leaf-interface-group <WORD>
(config-leaf-if-group)# interface fc
```

## interface fc <ifRange>

**Description:** FC Interface

**Syntax:**

|           |                 |
|-----------|-----------------|
| <ifRange> | interface Range |
|-----------|-----------------|

**Command Mode:** leaf : Configure Leaf Node

**Command Path:**

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

## interface fc <ifRange>

**Description:** FC Interface

**Syntax:**

|           |                 |
|-----------|-----------------|
| <ifRange> | interface Range |
|-----------|-----------------|

**Command Mode:** spine : Configure Spine Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface fc <ifRange>
```

# interface inband-mgmt0

## interface inband-mgmt0

**Description:** Inband management interface

**Command Mode:** controller : Configure Controller Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# controller
(config-controller)# interface inband-mgmt0
```

## interface inband-mgmt0

**Description:** Inband management interface

**Command Mode:** switch : Configure Leaf Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# switch
(config-switch)# interface inband-mgmt0
```

# interface mgmt0

## interface mgmt0

**Description:** Out of band management interface

**Command Mode:** controller : Configure Controller Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# controller
(config-controller)# interface mgmt0
```

## interface mgmt0

**Description:** Out of band management interface

**Command Mode:** switch : Configure Leaf Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# switch
(config-switch)# interface mgmt0
```

# interface port-channel

**interface port-channel <port-channel-name> leaf <NUMBER> [fex <fex-id>]**

**Description:** Configure Port Channel as a Cluster Member Interface

**Syntax:**

|                                  |  |
|----------------------------------|--|
| <i>&lt;port-channel-name&gt;</i> | Name of the port-channel   |
| leaf                             | Leaf Id for the port-channel   |
| <i>NUMBER</i>                    | Leaf Id for the port channel.. Number range from=0 to=9223372036854775807            |
| <i>&lt;fex-id&gt;</i>            | (Optional) Fex ID that connects to cluster interface interface on (physical) device. |

**Command Mode:** member : Configure Cluster Interface Member

**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>
(config-member)# interface port-channel <port-channel-name> leaf <NUMBER> [fex <fex-id>]
```

**interface port-channel <WORD> [fex <fex>]**

**Description:** Port Channel interface

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Port-Channel Name (Max Size 64)                 |
| <i>fex</i>  | (Optional) Fex Id. Number range from=101 to=199 |

**Command Mode:** leaf : Configure Leaf Node

**Command Path:**

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

**interface port-channel <WORD> [fex <fex>]**

**Description:** Port Channel interface

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Port-Channel Name (Max Size 64)                 |
| <i>fex</i>  | (Optional) Fex Id. Number range from=101 to=199 |

**Command Mode:** spine : Configure Spine Node

**Command Path:**

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

# interface vfc-po

**interface vfc-po <WORD> [fex <fex>]**

**Description:** VFC Port Channel interface

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Port-Channel Name (Max Size 64)                 |
| <i>fex</i>  | (Optional) Fex Id. Number range from=101 to=199 |

**Command Mode:** leaf : Configure Leaf Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vfc-po <WORD> [fex <fex>]
```

**interface vfc-po <WORD> [fex <fex>]**

**Description:** VFC Port Channel interface

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Port-Channel Name (Max Size 64)                 |
| <i>fex</i>  | (Optional) Fex Id. Number range from=101 to=199 |

**Command Mode:** spine : Configure Spine Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vfc-po <WORD> [fex <fex>]
```



# interface vfc

## interface vfc <ifRange>

**Description:** Virtual Fiber Channel interface

**Syntax:**

|           |                 |
|-----------|-----------------|
| <ifRange> | interface Range |
|-----------|-----------------|

**Command Mode:** leaf : Configure Leaf Node

**Command Path:**

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

## interface vfc <ifRange>

**Description:** Virtual Fiber Channel interface

**Syntax:**

|           |                 |
|-----------|-----------------|
| <ifRange> | interface Range |
|-----------|-----------------|

**Command Mode:** spine : Configure Spine Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vfc <ifRange>
```

# interface vlan

## interface vlan <1-4094>

**Description:** Vlan interface

**Syntax:**

|          |                       |
|----------|-----------------------|
| <1-4094> | Vlan interface number |
|----------|-----------------------|

**Command Mode:** leaf : Configure Leaf Node

**Command Path:**

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

## interface vlan <1-4094>

**Description:** Vlan interface

**Syntax:**

|          |                       |
|----------|-----------------------|
| <1-4094> | Vlan interface number |
|----------|-----------------------|

**Command Mode:** spine : Configure Spine Node

**Command Path:**

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

# interface vpc

**interface vpc <vpc-name> leaf <NUMBER> <NUMBER> [fex fex <Ids>]**

**Description:** Configure monitor for VPC interfaces

**Syntax:**

|            |  |
|------------|--|
| <vpc-name> | VPC port-channel group name  |
| leaf       | leaf   |
| NUMBER     | First leaf member of the Pair. Number range from=0 to=9223372036854775807  |
| NUMBER     | Second leaf member of the Pair. Number range from=0 to=9223372036854775807 |
| fex <Ids>  | (Optional) paired fex Ids  |

**Command Mode:** member : Configure Cluster Interface Member

**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>
(config-member)# interface vpc <vpc-name> leaf <NUMBER> <NUMBER> [fex fex <Ids>]
```

# interpod

## **interpod data hardware-proxy <A.B.C.D>**

**Description:** Interpod anycast hardware-proxy ip

**Syntax:**

|                |                                    |
|----------------|------------------------------------|
| data           | Interpod anycast hardware-proxy ip |
| hardware-proxy | Interpod anycast hardware-proxy ip |
| <i>A.B.C.D</i> | IPV4 address in format x.x.x.x     |

**Command Mode:** pod : Pod Profile

**Command Path:**

```
# configure [['terminal', 't']]
(config)# fabric-external <NUMBER>
(config-fabric-external)# pod <NUMBER>
(config-fabric-external-pod)# interpod data hardware-proxy <A.B.C.D>
```

# ip-filter-action

## ip-filter-action deny|permit

**Description:** IP filtering action for VRF filtering

**Syntax:**

|        |                  |
|--------|------------------|
| deny   | Deny IP traffic  |
| permit | Allow IP traffic |

**Command Mode:** flow-exporter : Configure external analytics reachability information

**Command Path:**

```
# configure [['terminal', 't']]
(config)# analytics cluster <WORD>
(config-analytics)# flow-exporter <WORD>
(config-analytics-cluster-exporter)# ip-filter-action deny|permit
```

# ip-inspection-admin-status

## **ip-inspection-admin-status enabled-both|disabled**

**Description:** Config IP inspection administrative status in first hop security bridge domain policy

**Syntax:**

|              |   |
|--------------|---|
| enabled-both | Enable IP inspection for both IPv4 and IPv6 |
| disabled     | Disable IP inspection                       |

**Command Mode:** security-policy : Configuration for security policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# first-hop-security
(config-tenant-fhs)# security-policy <WORD>
(config-tenant-fhs-secpol)# ip-inspection-admin-status enabled-both|disabled
```

# ip

## ip learning

**Description:** Instruct the destination leaf to learn source ip of the packet

**Syntax:**

|          |             |
|----------|-------------|
| learning | ip learning |
|----------|-------------|

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

**Command Path:**

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

## ip route <A.B.C.D/LEN> <ipAddress|null> <ZeroorPref> <BfdorPref>

**Description:** Configure IP features

**Syntax:**

|                           |   |
|---------------------------|---|
| route                     | Route information                                     |
| <i>A.B.C.D/LEN</i>        | IP prefix and network mask length in format x.x.x.x/m |
| <i>ipAddress null</i>     |   |
| <i>&lt;ZeroorPref&gt;</i> |   |
| <i>&lt;BfdorPref&gt;</i>  |   |

**Command Mode:** vrf : Configure VRF parameters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# vrf context tenant <WORD> vrf <WORD> [l3out <l3out>]
(config-leaf-vrf)# ip route <A.B.C.D/LEN> <ipAddress|null> <ZeroorPref> <BfdorPref>
```

## ip <arg> [secondary]

**Description:** Enable HSRP IP and set the virtual IP address

**Syntax:**

|            |   |
|------------|---|
| <i>arg</i> |   |
| secondary  | (Optional) Configure IP Address as Secondary IP |

**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)# ip <> [secondary]
```

**ip <arg> [secondary]**

**Description:** Enable HSRP IP and set the virtual IP address

**Syntax:**

|            |   |
|------------|---|
| <i>arg</i> |   |
| secondary  | (Optional) Configure IP Address as Secondary IP |

**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)# ip <> [secondary]
```

**ip route <A.B.C.D/LEN> <ipAddress|null> <ZeroorPref> <BfdorPref>**

**Description:** Configure IP features

**Syntax:**

|                           |   |
|---------------------------|---|
| route                     | Route information                                     |
| <i>A.B.C.D/LEN</i>        | IP prefix and network mask length in format x.x.x.x/m |
| <i>ipAddress null</i>     |   |
| <i>&lt;ZeroorPref&gt;</i> |   |
| <i>&lt;BfdorPref&gt;</i>  |   |

**Command Mode:** vrf : Configure VRF parameters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# vrf context tenant <WORD> vrf <WORD> [l3out <l3out>]
(config-leaf-vrf)# ip route <A.B.C.D/LEN> <ipAddress|null> <ZeroorPref> <BfdorPref>
```



**ip <arg> [secondary]**

**Description:** Enable HSRP IP and set the virtual IP address

**Syntax:**

|            |   |
|------------|---|
| <i>arg</i> |   |
| secondary  | (Optional) Configure IP Address as Secondary IP |

**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)# ip <> [secondary]
```

**ip <arg> [secondary]**

**Description:** Enable HSRP IP and set the virtual IP address

**Syntax:**

|            |   |
|------------|---|
| <i>arg</i> |   |
| secondary  | (Optional) Configure IP Address as Secondary IP |

**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)# ip <> [secondary]
```

**ip prefix-list <name> [permit <A.B.C.D/LEN>]**

**Description:** Import Prefix list

**Syntax:**

|                    |   |
|--------------------|---|
| prefix-list        | Prefix List                                   |
| <i>name</i>        | Prefix list name                              |
| <i>A.B.C.D/LEN</i> | (Optional) IPV4 address in format x.x.x.x/LEN |

**Command Mode:** route-map : Import subnet from IPN

**Command Path:**

```
# configure [['terminal', 't']]
(config)# fabric-external <NUMBER>
(config-fabric-external)# route-map interpod-import
(config-fabric-external-route-map)# ip prefix-list <name> [permit <A.B.C.D/LEN>]
```

# ip address-range

**ip address-range <A.B.C.D/LEN> gateway <A.B.C.D>**

**Description:** Configure IP and gateway features

**Syntax:**

|                    |  |
|--------------------|--|
| <i>A.B.C.D/LEN</i> | IP Address and network mask length in format x.x.x.x/m |
| gateway            | Configure gateway address on interface                 |
| <i>A.B.C.D</i>     | Gateway address in format x.x.x.x                      |

**Command Mode:** interface mgmt0 : Out of band management interface

**Command Path:**

```
# configure [['terminal', 't']]
(config)# controller
(config-controller)# interface mgmt0
(config-controller-if)# ip address-range <A.B.C.D/LEN> gateway <A.B.C.D>
```

**ip address-range <A.B.C.D/LEN> gateway <A.B.C.D>**

**Description:** Configure IP and gateway features

**Syntax:**

|                    |  |
|--------------------|--|
| <i>A.B.C.D/LEN</i> | IP address and network mask length in format x.x.x.x/m |
| gateway            | Configure gateway address on interface                 |
| <i>A.B.C.D</i>     | Gateway address in format x.x.x.x                      |

**Command Mode:** interface inband-mgmt0 : Inband management interface

**Command Path:**

```
# configure [['terminal', 't']]
(config)# controller
(config-controller)# interface inband-mgmt0
(config-controller-if)# ip address-range <A.B.C.D/LEN> gateway <A.B.C.D>
```

**ip address-range <A.B.C.D/LEN> gateway <A.B.C.D>**

**Description:** Configure IP and gateway features

**Syntax:**

|                    |  |
|--------------------|--|
| <i>A.B.C.D/LEN</i> | IP Address and network mask length in format x.x.x.x/m |
| gateway            | Configure gateway address on interface                 |

|                |                                   |
|----------------|-----------------------------------|
| <i>A.B.C.D</i> | Gateway address in format x.x.x.x |
|----------------|-----------------------------------|

**Command Mode:** interface mgmt0 : Out of band management interface

**Command Path:**

```
# configure [['terminal', 't']]
(config)# switch
(config-switch)# interface mgmt0
(config-switch-if)# ip address-range <A.B.C.D/LEN> gateway <A.B.C.D>
```

**ip address-range <A.B.C.D> gateway <A.B.C.D>**

**Description:** Configure IP and gateway features

**Syntax:**

|                |  |
|----------------|--|
| <i>A.B.C.D</i> | IP address and network mask length in format x.x.x.x/m |
| gateway        | Configure gateway address on interface                 |
| <i>A.B.C.D</i> | Gateway address in format x.x.x.x                      |

**Command Mode:** interface inband-mgmt0 : Inband management interface

**Command Path:**

```
# configure [['terminal', 't']]
(config)# switch
(config-switch)# interface inband-mgmt0
(config-switch-if)# ip address-range <A.B.C.D> gateway <A.B.C.D>
```

# ip address

**ip address <A.B.C.D/LEN> [scope <scope>] [secondary] [multi-site] [snooping-querier]**

**Description:** Define an IPv4 subnet to be exported by the BD

**Syntax:**

|                         |  |
|-------------------------|--|
| <i>A.B.C.D/LEN</i>      | IP prefix and network mask length in format x.x.x.x/m                                    |
| <i>scope</i>            | (Optional) Scope of the address among ['public', 'private']                              |
| <i>secondary</i>        | (Optional) Set the address as secondary address  |
| <i>multi-site</i>       | (Optional) Set the address as multi-site address   |
| <i>snooping-querier</i> | (Optional) Tell the address to be used by IGMP Snooping querier functionality if enabled |

**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)# ip address <A.B.C.D/LEN> [scope <scope>] [secondary] [multi-site]
[snooping-querier]
```

**ip address <A.B.C.D/LEN> [secondary]**

**Description:** Configure IP address on interface

**Syntax:**

|                    |   |
|--------------------|---|
| <i>A.B.C.D/LEN</i> | IP prefix and network mask length in format x.x.x.x/m     |
| <i>secondary</i>   | (Optional) Configure additional IP addresses on interface |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# ip address <A.B.C.D/LEN> [secondary]
```

**ip address <A.B.C.D/LEN> [secondary]**

**Description:** Configure IP address on interface

**Syntax:**

|                    |   |
|--------------------|---|
| <i>A.B.C.D/LEN</i> | IP prefix and network mask length in format x.x.x.x/m |
| secondary          | (Optional) Configure IP Address as Secondary IP       |

**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)# ip address <A.B.C.D/LEN> [secondary]
```

**ip address <A.B.C.D/LEN> [secondary]**

**Description:** Configure IP address on interface

**Syntax:**

|                    |   |
|--------------------|---|
| <i>A.B.C.D/LEN</i> | IP prefix and network mask length in format x.x.x.x/m |
| secondary          | (Optional) Configure IP Address as Secondary IP       |

**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)# ip address <A.B.C.D/LEN> [secondary]
```

**ip address <A.B.C.D/LEN> [secondary]**

**Description:** Configure IP address on interface

**Syntax:**

|                    |   |
|--------------------|---|
| <i>A.B.C.D/LEN</i> | IP prefix and network mask length in format x.x.x.x/m     |
| secondary          | (Optional) Configure additional IP addresses on interface |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# ip address <A.B.C.D/LEN> [secondary]
```

**ip address <A.B.C.D/LEN> [secondary]**

**Description:** Configure IP address on interface

**Syntax:**

|                    |   |
|--------------------|---|
| <i>A.B.C.D/LEN</i> | IP prefix and network mask length in format x.x.x.x/m |
| secondary          | (Optional) Configure IP Address as Secondary IP       |

**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)# ip address <A.B.C.D/LEN> [secondary]
```

**ip address <A.B.C.D/LEN> [secondary]**

**Description:** Configure IP address on interface

**Syntax:**

|                    |   |
|--------------------|---|
| <i>A.B.C.D/LEN</i> | IP prefix and network mask length in format x.x.x.x/m |
| secondary          | (Optional) Configure IP Address as Secondary IP       |

**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)# ip address <A.B.C.D/LEN> [secondary]
```

**ip address <A.B.C.D/LEN> gateway <A.B.C.D>**

**Description:** Configure IP and gateway features

**Syntax:**

|                    |   |
|--------------------|---|
| <i>A.B.C.D/LEN</i> | IP prefix and network mask length in format x.x.x.x/m |
| gateway            | Configure gateway address on interface                |
| <i>A.B.C.D</i>     | Gateway address in format x.x.x.x                     |

**Command Mode:** interface mgmt0 : Out of band management interface

**Command Path:**

```
# configure [['terminal', 't']]
(config)# controller
(config-controller)# interface mgmt0
(config-controller-if)# ip address <A.B.C.D/LEN> gateway <A.B.C.D>
```

**ip address <A.B.C.D/LEN> gateway <A.B.C.D>**

**Description:** Configure IP and gateway features

**Syntax:**

|                    |  |
|--------------------|--|
| <i>A.B.C.D/LEN</i> | IP address and network mask length in format x.x.x.x/m |
| gateway            | Configure gateway address on interface                 |
| <i>A.B.C.D</i>     | Gateway address in format x.x.x.x                      |

**Command Mode:** interface inband-mgmt0 : Inband management interface

**Command Path:**

```
# configure [['terminal', 't']]
(config)# controller
(config-controller)# interface inband-mgmt0
(config-controller-if)# ip address <A.B.C.D/LEN> gateway <A.B.C.D>
```

**ip address <A.B.C.D/LEN> gateway <A.B.C.D>**

**Description:** Configure IP and gateway features

**Syntax:**

|                    |   |
|--------------------|---|
| <i>A.B.C.D/LEN</i> | IP prefix and network mask length in format x.x.x.x/m |
| gateway            | Configure gateway address on interface                |
| <i>A.B.C.D</i>     | Gateway address in format x.x.x.x                     |

**Command Mode:** interface mgmt0 : Out of band management interface

**Command Path:**

```
# configure [['terminal', 't']]
(config)# switch
(config-switch)# interface mgmt0
(config-switch-if)# ip address <A.B.C.D/LEN> gateway <A.B.C.D>
```

**ip address <A.B.C.D/LEN> gateway <A.B.C.D>**

**Description:** Configure IP and gateway features

**Syntax:**

|                    |  |
|--------------------|--|
| <i>A.B.C.D/LEN</i> | IP address and network mask length in format x.x.x.x/m |
| gateway            | Configure gateway address on interface                 |
| <i>A.B.C.D</i>     | Gateway address in format x.x.x.x                      |

**Command Mode:** interface inband-mgmt0 : Inband management interface



**Command Path:**

```
# configure [['terminal', 't']]
(config)# switch
(config-switch)# interface inband-mgmt0
(config-switch-if)# ip address <A.B.C.D/LEN> gateway <A.B.C.D>
```

# ip address tenant application

**ip address <A.B.C.D> tenant <WORD> application <WORD> epg <WORD>**

**Description:** Add a new server relay address under an AEPg

**Syntax:**

|                |  |
|----------------|--|
| <i>A.B.C.D</i> | IP address in format i.i.i.i                         |
| tenant         | Tenant hosting the DHCP server                       |
| <i>WORD</i>    | Tenant hosting the EPG (Max Size 63)                 |
| <i>WORD</i>    | Application hosting the EPG (Max Size 64)            |
| epg            | AEPg behind which the DHCP server sits               |
| <i>WORD</i>    | AEPg behind which the DHCP server sits (Max Size 64) |

**Command Mode:** template dhcp relay : Create a DHCP Relay policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template dhcp relay policy <WORD>
(config-template-dhcp-relay)# ip address <A.B.C.D> tenant <WORD> application <WORD> epg
<WORD>
```

**ip address <A.B.C.D> tenant <WORD> application <WORD> epg <WORD>**

**Description:** Add a new server relay address under an AEPg

**Syntax:**

|                |  |
|----------------|--|
| <i>A.B.C.D</i> | IP address in format i.i.i.i                         |
| tenant         | Tenant hosting the DHCP server                       |
| <i>WORD</i>    | Tenant hosting the EPG (Max Size 63)                 |
| <i>WORD</i>    | Application hosting the EPG (Max Size 64)            |
| epg            | AEPg behind which the DHCP server sits               |
| <i>WORD</i>    | AEPg behind which the DHCP server sits (Max Size 64) |

**Command Mode:** template dhcp relay : Create a DHCP Relay policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template dhcp relay policy <WORD>
```

```
(config-tenant-template-dhcp-relay)# ip address <A.B.C.D> tenant <WORD> application <WORD>  
epg <WORD>
```

# ip address tenant external-l2

**ip address <A.B.C.D> tenant <WORD> external-l2 epg <WORD>**

**Description:** Add a new server relay address under a L2 External EPG

**Syntax:**

|                |   |
|----------------|---|
| <i>A.B.C.D</i> | IP address in format i.i.i.i                                    |
| tenant         | Tenant hosting the DHCP server                                  |
| <i>WORD</i>    | Tenant hosting the EPG (Max Size 63)                            |
| epg            | epg keyword   |
| <i>WORD</i>    | l2 external EPG behind which the DHCP server sits (Max Size 64) |

**Command Mode:** template dhcp relay : Create a DHCP Relay policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template dhcp relay policy <WORD>
(config-template-dhcp-relay)# ip address <A.B.C.D> tenant <WORD> external-l2 epg <WORD>
```

**ip address <A.B.C.D> tenant <WORD> external-l2 epg <WORD>**

**Description:** Add a new server relay address under a L2 External EPG

**Syntax:**

|                |   |
|----------------|---|
| <i>A.B.C.D</i> | IP address in format i.i.i.i                                    |
| tenant         | Tenant hosting the DHCP server                                  |
| <i>WORD</i>    | Tenant hosting the EPG (Max Size 63)                            |
| epg            | epg keyword   |
| <i>WORD</i>    | l2 external EPG behind which the DHCP server sits (Max Size 64) |

**Command Mode:** template dhcp relay : Create a DHCP Relay policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template dhcp relay policy <WORD>
(config-tenant-template-dhcp-relay)# ip address <A.B.C.D> tenant <WORD> external-l2 epg <WORD>
```

# ip address tenant external-l3

**ip address <A.B.C.D> tenant <WORD> external-l3 epg <WORD>**

**Description:** Add a new server relay address under a L3 External EPG

**Syntax:**

|                |   |
|----------------|---|
| <i>A.B.C.D</i> | IP address in format i.i.i.i                                    |
| tenant         | Tenant hosting the DHCP server                                  |
| <i>WORD</i>    | Tenant hosting the EPG (Max Size 63)                            |
| epg            | EPG keyword   |
| <i>WORD</i>    | l3 external EPG behind which the DHCP server sits (Max Size 64) |

**Command Mode:** template dhcp relay : Create a DHCP Relay policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template dhcp relay policy <WORD>
(config-template-dhcp-relay)# ip address <A.B.C.D> tenant <WORD> external-l3 epg <WORD>
```

**ip address <A.B.C.D> tenant <WORD> external-l3 epg <WORD>**

**Description:** Add a new server relay address under a L3 External EPG

**Syntax:**

|                |   |
|----------------|---|
| <i>A.B.C.D</i> | IP address in format i.i.i.i                                    |
| tenant         | Tenant hosting the DHCP server                                  |
| <i>WORD</i>    | Tenant hosting the EPG (Max Size 63)                            |
| epg            | EPG keyword   |
| <i>WORD</i>    | l3 external EPG behind which the DHCP server sits (Max Size 64) |

**Command Mode:** template dhcp relay : Create a DHCP Relay policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template dhcp relay policy <WORD>
(config-tenant-template-dhcp-relay)# ip address <A.B.C.D> tenant <WORD> external-l3 epg <WORD>
```

# ip bandwidth

## ip bandwidth eigrp default <NUMBER>

**Description:** Set EIGRP bandwidth

**Syntax:**

|                |  |
|----------------|--|
| eigrp          | EIGRP  |
| default        | EIGRP default instance                               |
| <0-2560000000> | bandwidth in kbps. Number range from=0 to=2560000000 |

**Command Mode:** template eigrp interface-policy : Configure EIGRP Interface policy templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template eigrp interface-policy <WORD> tenant <WORD>
(config-template-eigrp-if-pol)# ip bandwidth eigrp default <NUMBER>
```

## ip bandwidth eigrp default <NUMBER>

**Description:** Set EIGRP bandwidth

**Syntax:**

|                |  |
|----------------|--|
| eigrp          | EIGRP  |
| default        | EIGRP default instance                               |
| <0-2560000000> | bandwidth in kbps. Number range from=0 to=2560000000 |

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

**Command Path:**

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

## ip bandwidth eigrp default <NUMBER>

**Description:** Set EIGRP bandwidth

**Syntax:**

|         |                        |
|---------|------------------------|
| eigrp   | EIGRP                  |
| default | EIGRP default instance |

|                |  |
|----------------|--|
| <0-2560000000> | bandwidth in kbps. Number range from=0 to=2560000000 |
|----------------|--|

**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)# ip bandwidth eigrp default <NUMBER>
```

**ip bandwidth eigrp default <NUMBER>**

**Description:** Set EIGRP bandwidth

**Syntax:**

|                |  |
|----------------|--|
| eigrp          | EIGRP  |
| default        | EIGRP default instance                               |
| <0-2560000000> | bandwidth in kbps. Number range from=0 to=2560000000 |

**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)# ip bandwidth eigrp default <NUMBER>
```

**ip bandwidth eigrp default <NUMBER>**

**Description:** Set EIGRP bandwidth

**Syntax:**

|                |  |
|----------------|--|
| eigrp          | EIGRP  |
| default        | EIGRP default instance                               |
| <0-2560000000> | bandwidth in kbps. Number range from=0 to=2560000000 |

**Command Mode:** template eigrp interface-policy : Configure EIGRP Interface policy templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# template eigrp interface-policy <WORD> tenant <WORD>
(config-template-eigrp-if-pol)# ip bandwidth eigrp default <NUMBER>
```

**ip bandwidth eigrp default <NUMBER>****Description:** Set EIGRP bandwidth**Syntax:**

|                |  |
|----------------|--|
| eigrp          | EIGRP  |
| default        | EIGRP default instance                               |
| <0-2560000000> | bandwidth in kbps. Number range from=0 to=2560000000 |

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

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

**ip bandwidth eigrp default <NUMBER>****Description:** Set EIGRP bandwidth**Syntax:**

|                |  |
|----------------|--|
| eigrp          | EIGRP  |
| default        | EIGRP default instance                               |
| <0-2560000000> | bandwidth in kbps. Number range from=0 to=2560000000 |

**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)# ip bandwidth eigrp default <NUMBER>
```

**ip bandwidth eigrp default <NUMBER>****Description:** Set EIGRP bandwidth**Syntax:**

|                |  |
|----------------|--|
| eigrp          | EIGRP  |
| default        | EIGRP default instance                               |
| <0-2560000000> | bandwidth in kbps. Number range from=0 to=2560000000 |

**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)# ip bandwidth eigrp default <NUMBER>
```

# ip bfd

## ip bfd enable

**Description:** Enable Bidirectional Forwarding Detection

**Syntax:**

|        |            |
|--------|------------|
| enable | Enable BFD |
|--------|------------|

**Command Mode:** template eigrp interface-policy : Configure EIGRP Interface policy templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template eigrp interface-policy <WORD> tenant <WORD>
(config-template-eigrp-if-pol)# ip bfd enable
```

## ip bfd eigrp enable

**Description:** Enable EIGRP Bidirectional Forwarding Detection

**Syntax:**

|        |            |
|--------|------------|
| eigrp  | EIGRP      |
| enable | Enable BFD |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# ip bfd eigrp enable
```

## ip bfd eigrp enable

**Description:** Enable EIGRP Bidirectional Forwarding Detection

**Syntax:**

|        |            |
|--------|------------|
| eigrp  | EIGRP      |
| enable | Enable BFD |

**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)# ip bfd eigrp enable
```

**ip bfd eigrp enable**

**Description:** Enable EIGRP Bidirectional Forwarding Detection

**Syntax:**

|        |            |
|--------|------------|
| eigrp  | EIGRP      |
| enable | Enable BFD |

**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)# ip bfd eigrp enable
```

**ip bfd enable**

**Description:** Enable Bidirectional Forwarding Detection

**Syntax:**

|        |            |
|--------|------------|
| enable | Enable BFD |
|--------|------------|

**Command Mode:** template eigrp interface-policy : Configure EIGRP Interface policy templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# template eigrp interface-policy <WORD> tenant <WORD>
(config-template-eigrp-if-pol)# ip bfd enable
```

**ip bfd eigrp enable**

**Description:** Enable EIGRP Bidirectional Forwarding Detection

**Syntax:**

|        |            |
|--------|------------|
| eigrp  | EIGRP      |
| enable | Enable BFD |

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

**Command Path:**

```
# configure [['terminal', 't']]
```

```
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# ip bfd eigrp enable
```

### ip bfd eigrp enable

**Description:** Enable EIGRP Bidirectional Forwarding Detection

**Syntax:**

|        |            |
|--------|------------|
| eigrp  | EIGRP      |
| enable | Enable BFD |

**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)# ip bfd eigrp enable
```

### ip bfd eigrp enable

**Description:** Enable EIGRP Bidirectional Forwarding Detection

**Syntax:**

|        |            |
|--------|------------|
| eigrp  | EIGRP      |
| enable | Enable BFD |

**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)# ip bfd eigrp enable
```

# ip dhcp relay address tenant application

**ip dhcp relay address <A.B.C.D> tenant <WORD> application <WORD> epg <WORD>**

**Description:** Add a new server relay address under an AEPg

**Syntax:**

|                |  |
|----------------|--|
| <i>A.B.C.D</i> | IP address in format i.i.i.i                         |
| tenant         | Tenant hosting the DHCP server                       |
| <i>WORD</i>    | Tenant hosting the EPG (Max Size 63)                 |
| <i>WORD</i>    | Application hosting the EPG (Max Size 64)            |
| epg            | AEPg behind which the DHCP server sits               |
| <i>WORD</i>    | AEPg behind which the DHCP server sits (Max Size 64) |

**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)# ip dhcp relay address <A.B.C.D> tenant <WORD> application <WORD>
epg <WORD>
```

**ip dhcp relay address <A.B.C.D> tenant <WORD> application <WORD> epg <WORD>**

**Description:** Application hosting the DHCP server

**Syntax:**

|                |   |
|----------------|---|
| <i>A.B.C.D</i> | IP address in format i.i.i.i                      |
| tenant         | Tenant hosting the DHCP server                    |
| <i>WORD</i>    | Tenant hosting the DHCP server (Max Size 63)      |
| <i>WORD</i>    | Application hosting the DHCP server (Max Size 64) |
| epg            | EPG hosting the DHCP server                       |
| <i>WORD</i>    | EPG hosting the DHCP server (Max Size 64)         |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
```

```
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# ip dhcp relay address <A.B.C.D> tenant <WORD> application <WORD> epg
<WORD>
```

**ip dhcp relay address <A.B.C.D> tenant <WORD> application <WORD> epg <WORD>**

**Description:** Application hosting the DHCP server

**Syntax:**

|                |   |
|----------------|---|
| <i>A.B.C.D</i> | IP address in format i.i.i.i                      |
| tenant         | Tenant hosting the DHCP server                    |
| <i>WORD</i>    | Tenant hosting the DHCP server (Max Size 63)      |
| <i>WORD</i>    | Application hosting the DHCP server (Max Size 64) |
| epg            | EPG hosting the DHCP server                       |
| <i>WORD</i>    | EPG hosting the DHCP server (Max Size 64)         |

**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)# ip dhcp relay address <A.B.C.D> tenant <WORD> application <WORD> epg
<WORD>
```

**ip dhcp relay address <A.B.C.D> tenant <WORD> application <WORD> epg <WORD>**

**Description:** Application hosting the DHCP server

**Syntax:**

|                |   |
|----------------|---|
| <i>A.B.C.D</i> | IP address in format i.i.i.i                      |
| tenant         | Tenant hosting the DHCP server                    |
| <i>WORD</i>    | Tenant hosting the DHCP server (Max Size 63)      |
| <i>WORD</i>    | Application hosting the DHCP server (Max Size 64) |
| epg            | EPG hosting the DHCP server                       |
| <i>WORD</i>    | EPG hosting the DHCP server (Max Size 64)         |

**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)# ip dhcp relay address <A.B.C.D> tenant <WORD> application <WORD> epg
<WORD>
```

**ip dhcp relay address <A.B.C.D> tenant <WORD> application <WORD> epg <WORD>**

**Description:** Application hosting the DHCP server

**Syntax:**

|                |   |
|----------------|---|
| <i>A.B.C.D</i> | IP address in format i.i.i.i                      |
| tenant         | Tenant hosting the DHCP server                    |
| <i>WORD</i>    | Tenant hosting the DHCP server (Max Size 63)      |
| <i>WORD</i>    | Application hosting the DHCP server (Max Size 64) |
| epg            | EPG hosting the DHCP server                       |
| <i>WORD</i>    | EPG hosting the DHCP server (Max Size 64)         |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# ip dhcp relay address <A.B.C.D> tenant <WORD> application <WORD> epg
<WORD>
```

**ip dhcp relay address <A.B.C.D> tenant <WORD> application <WORD> epg <WORD>**

**Description:** Application hosting the DHCP server

**Syntax:**

|                |   |
|----------------|---|
| <i>A.B.C.D</i> | IP address in format i.i.i.i                      |
| tenant         | Tenant hosting the DHCP server                    |
| <i>WORD</i>    | Tenant hosting the DHCP server (Max Size 63)      |
| <i>WORD</i>    | Application hosting the DHCP server (Max Size 64) |
| epg            | EPG hosting the DHCP server                       |
| <i>WORD</i>    | EPG hosting the DHCP server (Max Size 64)         |

**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)# ip dhcp relay address <A.B.C.D> tenant <WORD> application <WORD> epg
<WORD>
```

**ip dhcp relay address <A.B.C.D> tenant <WORD> application <WORD> epg <WORD>**

**Description:** Application hosting the DHCP server

**Syntax:**

|                |   |
|----------------|---|
| <i>A.B.C.D</i> | IP address in format i.i.i.i                      |
| tenant         | Tenant hosting the DHCP server                    |
| <i>WORD</i>    | Tenant hosting the DHCP server (Max Size 63)      |
| <i>WORD</i>    | Application hosting the DHCP server (Max Size 64) |
| epg            | EPG hosting the DHCP server                       |
| <i>WORD</i>    | EPG hosting the DHCP server (Max Size 64)         |

**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)# ip dhcp relay address <A.B.C.D> tenant <WORD> application <WORD> epg
<WORD>
```



## ip dhcp relay address tenant external-l2

**ip dhcp relay address** <A.B.C.D> tenant <WORD> external-l2 epg <WORD>

**Description:** Add a new server relay address under a L2 External EPG

**Syntax:**

|                |   |
|----------------|---|
| <i>A.B.C.D</i> | IP address in format i.i.i.i                                    |
| tenant         | Tenant hosting the DHCP server                                  |
| <i>WORD</i>    | Tenant hosting the EPG (Max Size 63)                            |
| epg            | epg keyword   |
| <i>WORD</i>    | l2 external EPG behind which the DHCP server sits (Max Size 64) |

**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)# ip dhcp relay address <A.B.C.D> tenant <WORD> external-l2 epg
<WORD>
```

## ip dhcp relay address tenant external-l3

**ip dhcp relay address** <A.B.C.D> tenant <WORD> external-l3 epg <WORD>

**Description:** Add a new server relay address under a L3 External EPG

**Syntax:**

|                |   |
|----------------|---|
| <i>A.B.C.D</i> | IP address in format i.i.i.i                                    |
| tenant         | Tenant hosting the DHCP server                                  |
| <i>WORD</i>    | Tenant hosting the EPG (Max Size 63)                            |
| epg            | EPG keyword   |
| <i>WORD</i>    | l3 external EPG behind which the DHCP server sits (Max Size 64) |

**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)# ip dhcp relay address <A.B.C.D> tenant <WORD> external-l3 epg
<WORD>
```

# ip distribute-list eigrp

## ip distribute-list eigrp default route-map <WORD> out

**Description:** Configure distribute-list EIGRP route-map

**Syntax:**

|             |                              |
|-------------|------------------------------|
| default     | EIGRP default instance       |
| route-map   | route map                    |
| <i>WORD</i> | Route-map name (Max Size 64) |
| out         | out                          |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# ip distribute-list eigrp default route-map <WORD> out
```

## ip distribute-list eigrp default route-map <WORD> out

**Description:** Configure distribute-list EIGRP Policies

**Syntax:**

|             |                              |
|-------------|------------------------------|
| default     | EIGRP default instance       |
| route-map   | route map                    |
| <i>WORD</i> | Route-map name (Max Size 64) |
| out         | out                          |

**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)# ip distribute-list eigrp default route-map <WORD> out
```

## ip distribute-list eigrp default route-map <WORD> out

**Description:** Configure distribute-list EIGRP Policies

**Syntax:**

|             |                              |
|-------------|------------------------------|
| default     | EIGRP default instance       |
| route-map   | route map                    |
| <i>WORD</i> | Route-map name (Max Size 64) |
| out         | out                          |

**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)# ip distribute-list eigrp default route-map <WORD> out
```

**ip distribute-list eigrp default route-map <WORD> out**

**Description:** Configure distribute-list EIGRP route-map

**Syntax:**

|             |                              |
|-------------|------------------------------|
| default     | EIGRP default instance       |
| route-map   | route map                    |
| <i>WORD</i> | Route-map name (Max Size 64) |
| out         | out                          |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# ip distribute-list eigrp default route-map <WORD> out
```

**ip distribute-list eigrp default route-map <WORD> out**

**Description:** Configure distribute-list EIGRP Policies

**Syntax:**

|             |                              |
|-------------|------------------------------|
| default     | EIGRP default instance       |
| route-map   | route map                    |
| <i>WORD</i> | Route-map name (Max Size 64) |
| out         | out                          |

**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)# ip distribute-list eigrp default route-map <WORD> out
```

**ip distribute-list eigrp default route-map <WORD> out****Description:** Configure distribute-list EIGRP Policies**Syntax:**

|             |                              |
|-------------|------------------------------|
| default     | EIGRP default instance       |
| route-map   | route map                    |
| <i>WORD</i> | Route-map name (Max Size 64) |
| out         | out                          |

**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)# ip distribute-list eigrp default route-map <WORD> out
```

# ip dscp

## ip dscp <dscp>

**Description:** dscp

**Syntax:**

|             |                    |
|-------------|--------------------|
| <i>dscp</i> | DSCP code or value |
|-------------|--------------------|

**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)# ip dscp <dscp>
```

## ip dscp <dscp>

**Description:** dscp

**Syntax:**

|             |                    |
|-------------|--------------------|
| <i>dscp</i> | DSCP code or value |
|-------------|--------------------|

**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)# ip dscp <dscp>
```

## ip dscp <dscp>

**Description:** dscp

**Syntax:**

|             |                    |
|-------------|--------------------|
| <i>dscp</i> | DSCP code or value |
|-------------|--------------------|

**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)# ip dscp <dscp>
```

**ip dscp <dscp>****Description:** Configure DSCP**Syntax:**

|                     |                     |
|---------------------|---------------------|
| <i>&lt;dscp&gt;</i> | <i>&lt;dscp&gt;</i> |
|---------------------|---------------------|

**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)# ip dscp <dscp>
```

# ip flow

## ip flow monitor <WORD>

**Description:** Configure Netflow on the Port-Channel

**Syntax:**

|             |   |
|-------------|---|
| monitor     | Configure Netflow on the Port-Channel     |
| <i>WORD</i> | Netflow Monitor Policy Name (Max Size 64) |

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

**Command Path:**

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

## ip flow monitor <WORD>

**Description:** Configure Netflow on the Interface

**Syntax:**

|             |   |
|-------------|---|
| monitor     | Configure Netflow on the Interface        |
| <i>WORD</i> | Netflow Monitor Policy Name (Max Size 64) |

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

**Command Path:**

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

## ip flow monitor <WORD>

**Description:** Configure Netflow on the Interface

**Syntax:**

|             |   |
|-------------|---|
| monitor     | Configure Netflow on the Interface        |
| <i>WORD</i> | Netflow Monitor Policy Name (Max Size 64) |

**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)# ip flow monitor <WORD>
```

**ip flow monitor <WORD>**

**Description:** Configure Netflow on the Interface

**Syntax:**

|             |   |
|-------------|---|
| monitor     | Configure Netflow on the Interface        |
| <i>WORD</i> | Netflow Monitor Policy Name (Max Size 64) |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# ip flow monitor <WORD>
```

**ip flow monitor <arg>**

**Description:** Configure Netflow on the Interface

**Syntax:**

|            |   |
|------------|---|
| monitor    | Configure Netflow on the Interface        |
| <i>arg</i> | Netflow Monitor Policy Name (Max Size 64) |

**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)# ip flow monitor <>
```

**ip flow monitor <WORD>**

**Description:** Configure Netflow on the Interface

**Syntax:**

|             |   |
|-------------|---|
| monitor     | Configure Netflow on the Interface        |
| <i>WORD</i> | Netflow Monitor Policy Name (Max Size 64) |

**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)# ip flow monitor <WORD>
```

**ip flow monitor <WORD>**

**Description:** Configure Netflow on the Interface

**Syntax:**

|             |   |
|-------------|---|
| monitor     | Configure Netflow on the Interface        |
| <i>WORD</i> | Netflow Monitor Policy Name (Max Size 64) |

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

**Command Path:**

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

**ip flow monitor <arg>**

**Description:** Configure Netflow on the Interface

**Syntax:**

|            |   |
|------------|---|
| monitor    | Configure Netflow on the Interface        |
| <i>arg</i> | Netflow Monitor Policy Name (Max Size 64) |

**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)# ip flow monitor <>
```

**ip flow monitor <WORD>**

**Description:** Configure Netflow on the Interface

**Syntax:**

|             |   |
|-------------|---|
| monitor     | Configure Netflow on the Interface        |
| <i>WORD</i> | Netflow Monitor Policy Name (Max Size 64) |

**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)# ip flow monitor <WORD>
```

**ip flow monitor <WORD>**

**Description:** Configure Netflow on the VPC

**Syntax:**

|             |   |
|-------------|---|
| monitor     | Configure Netflow on the VPC              |
| <i>WORD</i> | Netflow Monitor Policy Name (Max Size 64) |

**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)# ip flow monitor <WORD>
```

# ip hello-interval

## ip hello-interval eigrp default <NUMBER>

**Description:** Set EIGRP Hello interval time

**Syntax:**

|           |  |
|-----------|--|
| eigrp     | EIGRP  |
| default   | EIGRP default instance                                       |
| <1-65535> | Hello interval time in seconds. Number range from=1 to=65535 |

**Command Mode:** template eigrp interface-policy : Configure EIGRP Interface policy templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template eigrp interface-policy <WORD> tenant <WORD>
(config-template-eigrp-if-pol)# ip hello-interval eigrp default <NUMBER>
```

## ip hello-interval eigrp default <NUMBER>

**Description:** Set EIGRP Hello interval time

**Syntax:**

|           |  |
|-----------|--|
| eigrp     | EIGRP  |
| default   | EIGRP default instance                                       |
| <1-65535> | Hello interval time in seconds. Number range from=1 to=65535 |

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

**Command Path:**

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

## ip hello-interval eigrp default <NUMBER>

**Description:** Set EIGRP Hello interval time

**Syntax:**

|         |                        |
|---------|------------------------|
| eigrp   | EIGRP                  |
| default | EIGRP default instance |

|           |  |
|-----------|--|
| <1-65535> | Hello interval time in seconds. Number range from=1 to=65535 |
|-----------|--|

**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)# ip hello-interval eigrp default <NUMBER>
```

**ip hello-interval eigrp default <NUMBER>**

**Description:** Set EIGRP Hello interval time

**Syntax:**

|           |  |
|-----------|--|
| eigrp     | EIGRP  |
| default   | EIGRP default instance                                       |
| <1-65535> | Hello interval time in seconds. Number range from=1 to=65535 |

**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)# ip hello-interval eigrp default <NUMBER>
```

**ip hello-interval eigrp default <NUMBER>**

**Description:** Set EIGRP Hello interval time

**Syntax:**

|           |  |
|-----------|--|
| eigrp     | EIGRP  |
| default   | EIGRP default instance                                       |
| <1-65535> | Hello interval time in seconds. Number range from=1 to=65535 |

**Command Mode:** template eigrp interface-policy : Configure EIGRP Interface policy templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# template eigrp interface-policy <WORD> tenant <WORD>
(config-template-eigrp-if-pol)# ip hello-interval eigrp default <NUMBER>
```

**ip hello-interval eigrp default <NUMBER>****Description:** Set EIGRP Hello interval time**Syntax:**

|           |  |
|-----------|--|
| eigrp     | EIGRP  |
| default   | EIGRP default instance                                       |
| <1-65535> | Hello interval time in seconds. Number range from=1 to=65535 |

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

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

**ip hello-interval eigrp default <NUMBER>****Description:** Set EIGRP Hello interval time**Syntax:**

|           |  |
|-----------|--|
| eigrp     | EIGRP  |
| default   | EIGRP default instance                                       |
| <1-65535> | Hello interval time in seconds. Number range from=1 to=65535 |

**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)# ip hello-interval eigrp default <NUMBER>
```

**ip hello-interval eigrp default <NUMBER>****Description:** Set EIGRP Hello interval time**Syntax:**

|           |  |
|-----------|--|
| eigrp     | EIGRP  |
| default   | EIGRP default instance                                       |
| <1-65535> | Hello interval time in seconds. Number range from=1 to=65535 |

**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)# ip hello-interval eigrp default <NUMBER>
```

# ip hold-interval

## ip hold-interval eigrp default <NUMBER>

**Description:** Set EIGRP Hold interval time

**Syntax:**

|           |   |
|-----------|---|
| eigrp     | EIGRP   |
| default   | EIGRP default instance                                      |
| <1-65535> | Hold interval time in seconds. Number range from=1 to=65535 |

**Command Mode:** template eigrp interface-policy : Configure EIGRP Interface policy templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template eigrp interface-policy <WORD> tenant <WORD>
(config-template-eigrp-if-pol)# ip hold-interval eigrp default <NUMBER>
```

## ip hold-interval eigrp default <NUMBER>

**Description:** Set EIGRP Hold interval time

**Syntax:**

|           |   |
|-----------|---|
| eigrp     | EIGRP   |
| default   | EIGRP default instance                                      |
| <1-65535> | Hold interval time in seconds. Number range from=1 to=65535 |

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

**Command Path:**

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

## ip hold-interval eigrp default <NUMBER>

**Description:** Set EIGRP Hold interval time

**Syntax:**

|         |                        |
|---------|------------------------|
| eigrp   | EIGRP                  |
| default | EIGRP default instance |



|           |   |
|-----------|---|
| <1-65535> | Hold interval time in seconds. Number range from=1 to=65535 |
|-----------|---|

**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)# ip hold-interval eigrp default <NUMBER>
```

**ip hold-interval eigrp default <NUMBER>**

**Description:** Set EIGRP Hold interval time

**Syntax:**

|           |   |
|-----------|---|
| eigrp     | EIGRP   |
| default   | EIGRP default instance                                      |
| <1-65535> | Hold interval time in seconds. Number range from=1 to=65535 |

**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)# ip hold-interval eigrp default <NUMBER>
```

**ip hold-interval eigrp default <NUMBER>**

**Description:** Set EIGRP Hold interval time

**Syntax:**

|           |   |
|-----------|---|
| eigrp     | EIGRP   |
| default   | EIGRP default instance                                      |
| <1-65535> | Hold interval time in seconds. Number range from=1 to=65535 |

**Command Mode:** template eigrp interface-policy : Configure EIGRP Interface policy templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# template eigrp interface-policy <WORD> tenant <WORD>
(config-template-eigrp-if-pol)# ip hold-interval eigrp default <NUMBER>
```

**ip hold-interval eigrp default <NUMBER>****Description:** Set EIGRP Hold interval time**Syntax:**

|           |   |
|-----------|---|
| eigrp     | EIGRP   |
| default   | EIGRP default instance                                      |
| <1-65535> | Hold interval time in seconds. Number range from=1 to=65535 |

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

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

**ip hold-interval eigrp default <NUMBER>****Description:** Set EIGRP Hold interval time**Syntax:**

|           |   |
|-----------|---|
| eigrp     | EIGRP   |
| default   | EIGRP default instance                                      |
| <1-65535> | Hold interval time in seconds. Number range from=1 to=65535 |

**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)# ip hold-interval eigrp default <NUMBER>
```

**ip hold-interval eigrp default <NUMBER>****Description:** Set EIGRP Hold interval time**Syntax:**

|           |   |
|-----------|---|
| eigrp     | EIGRP   |
| default   | EIGRP default instance                                      |
| <1-65535> | Hold interval time in seconds. Number range from=1 to=65535 |

**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)# ip hold-interval eigrp default <NUMBER>
```

# ip igmp

## ip igmp

**Description:** Enable IGMP

**Command Mode:** vrf : Configuration for vrf

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# vrf context <WORD>
(config-tenant-vrf)# ip igmp
```

# ip igmp allow-v3-asm

## ip igmp allow-v3-asm

**Description:** Allow V3 ASM

**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)# ip igmp allow-v3-asm
```

## ip igmp allow-v3-asm

**Description:** Allow V3 ASM

**Syntax:**

|      |      |
|------|------|
| igmp | igmp |
|------|------|

**Command Mode:** template ip igmp interface-policy : Create an IGMP interface policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template ip igmp interface-policy <WORD>
(config-tenant-template-ip-igmp-policy)# ip igmp allow-v3-asm
```

## ip igmp allow-v3-asm

**Description:** Allow V3 ASM

**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)# ip igmp allow-v3-asm
```

## ip igmp allow-v3-asm

**Description:** Allow V3 ASM

**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)# ip igmp allow-v3-asm
```

**ip igmp allow-v3-asm****Description:** Allow V3 ASM**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)# ip igmp allow-v3-asm
```

**ip igmp allow-v3-asm****Description:** Allow V3 ASM**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)# ip igmp allow-v3-asm
```

# ip igmp fast-leave

## ip igmp fast-leave

**Description:** Enable IP IGMP fast leave processing

**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)# ip igmp fast-leave
```

## ip igmp fast-leave

**Description:** Enable IP IGMP fast leave processing

**Syntax:**

|      |      |
|------|------|
| igmp | igmp |
|------|------|

**Command Mode:** template ip igmp interface-policy : Create an IGMP interface policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template ip igmp interface-policy <WORD>
(config-tenant-template-ip-igmp-policy)# ip igmp fast-leave
```

## ip igmp fast-leave

**Description:** Enable IP IGMP fast leave processing

**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)# ip igmp fast-leave
```

## ip igmp fast-leave

**Description:** Enable IP IGMP fast leave processing

**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)# ip igmp fast-leave
```

### ip igmp fast-leave

**Description:** Enable IP IGMP fast leave processing

**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)# ip igmp fast-leave
```

### ip igmp fast-leave

**Description:** Enable IP IGMP fast leave processing

**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)# ip igmp fast-leave
```



# ip igmp group-timeout

## ip igmp group-timeout <NUMBER>

**Description:** Configures group membership timeout for IGMPv2

**Syntax:**

|           |   |
|-----------|---|
| <3-65535> | Time in seconds. Number range from=3 to=65535 |
|-----------|---|

**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)# ip igmp group-timeout <NUMBER>
```

## ip igmp group-timeout <NUMBER>

**Description:** Configures group membership timeout for IGMPv2

**Syntax:**

|           |   |
|-----------|---|
| igmp      | igmp  |
| <3-65535> | Time in seconds. Number range from=3 to=65535 |

**Command Mode:** template ip igmp interface-policy : Create an IGMP interface policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template ip igmp interface-policy <WORD>
(config-tenant-template-ip-igmp-policy)# ip igmp group-timeout <NUMBER>
```

## ip igmp group-timeout <NUMBER>

**Description:** Configures group membership timeout for IGMPv2

**Syntax:**

|           |   |
|-----------|---|
| <3-65535> | Time in seconds. Number range from=3 to=65535 |
|-----------|---|

**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)# ip igmp group-timeout <NUMBER>
```

### ip igmp group-timeout <NUMBER>

**Description:** Configures group membership timeout for IGMPv2

**Syntax:**

|           |   |
|-----------|---|
| <3-65535> | Time in seconds. Number range from=3 to=65535 |
|-----------|---|

**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)# ip igmp group-timeout <NUMBER>
```

### ip igmp group-timeout <NUMBER>

**Description:** Configures group membership timeout for IGMPv2

**Syntax:**

|           |   |
|-----------|---|
| <3-65535> | Time in seconds. Number range from=3 to=65535 |
|-----------|---|

**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)# ip igmp group-timeout <NUMBER>
```

### ip igmp group-timeout <NUMBER>

**Description:** Configures group membership timeout for IGMPv2

**Syntax:**

|           |   |
|-----------|---|
| <3-65535> | Time in seconds. Number range from=3 to=65535 |
|-----------|---|

**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)# ip igmp group-timeout <NUMBER>
```

# ip igmp inherit

## ip igmp inherit interface-policy <WORD> [tenant <WORD>]

**Description:** Associate a IGMP interface policy to this interface

**Syntax:**

|                  |   |
|------------------|---|
| interface-policy | interface-policy                          |
| WORD             | IGMP interface policy name (Max Size 64)  |
| WORD             | (Optional) Tenant where policy is defined |

**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)# ip igmp inherit interface-policy <WORD> [tenant <WORD>]
```

## ip igmp inherit interface-policy <WORD> [tenant <WORD>]

**Description:** Associate a IGMP interface policy to this interface

**Syntax:**

|                  |   |
|------------------|---|
| interface-policy | interface-policy                          |
| WORD             | IGMP interface policy name (Max Size 64)  |
| WORD             | (Optional) Tenant where policy is defined |

**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)# ip igmp inherit interface-policy <WORD> [tenant <WORD>]
```

## ip igmp inherit interface-policy <WORD> [tenant <WORD>]

**Description:** Associate a IGMP interface policy to this interface

**Syntax:**

|                  |  |
|------------------|--|
| interface-policy | interface-policy                         |
| WORD             | IGMP interface policy name (Max Size 64) |

|             |   |
|-------------|---|
| <i>WORD</i> | (Optional) Tenant where policy is defined |
|-------------|---|

**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)# ip igmp inherit interface-policy <WORD> [tenant <WORD>]
```

### ip igmp inherit interface-policy <WORD> [tenant <WORD>]

**Description:** Associate a IGMP interface policy to this interface

**Syntax:**

|                  |   |
|------------------|---|
| interface-policy | interface-policy                          |
| <i>WORD</i>      | IGMP interface policy name (Max Size 64)  |
| <i>WORD</i>      | (Optional) Tenant where policy is defined |

**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)# ip igmp inherit interface-policy <WORD> [tenant <WORD>]
```

### ip igmp inherit interface-policy <WORD> [tenant <WORD>]

**Description:** Associate a IGMP interface policy to this interface

**Syntax:**

|                  |   |
|------------------|---|
| interface-policy | interface-policy                          |
| <i>WORD</i>      | IGMP interface policy name (Max Size 64)  |
| <i>WORD</i>      | (Optional) Tenant where policy is defined |

**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)# ip igmp inherit interface-policy <WORD> [tenant <WORD>]
```

# ip igmp last-member-query-count

## ip igmp last-member-query-count <NUMBER>

**Description:** Configures number of group-specific Queries sent

**Syntax:**

|       |                                       |
|-------|---------------------------------------|
| <1-5> | Count value. Number range from=1 to=5 |
|-------|---------------------------------------|

**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)# ip igmp last-member-query-count <NUMBER>
```

## ip igmp last-member-query-count <NUMBER>

**Description:** Configures number of group-specific Queries sent

**Syntax:**

|       |                                       |
|-------|---------------------------------------|
| igmp  | igmp                                  |
| <1-5> | Count value. Number range from=1 to=5 |

**Command Mode:** template ip igmp interface-policy : Create an IGMP interface policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template ip igmp interface-policy <WORD>
(config-tenant-template-ip-igmp-policy)# ip igmp last-member-query-count <NUMBER>
```

## ip igmp last-member-query-count <NUMBER>

**Description:** Configures number of group-specific Queries sent

**Syntax:**

|       |                                       |
|-------|---------------------------------------|
| <1-5> | Count value. Number range from=1 to=5 |
|-------|---------------------------------------|

**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)# ip igmp last-member-query-count <NUMBER>
```

### ip igmp last-member-query-count <NUMBER>

**Description:** Configures number of group-specific Queries sent

**Syntax:**

|       |                                       |
|-------|---------------------------------------|
| <1-5> | Count value. Number range from=1 to=5 |
|-------|---------------------------------------|

**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)# ip igmp last-member-query-count <NUMBER>
```

### ip igmp last-member-query-count <NUMBER>

**Description:** Configures number of group-specific Queries sent

**Syntax:**

|       |                                       |
|-------|---------------------------------------|
| <1-5> | Count value. Number range from=1 to=5 |
|-------|---------------------------------------|

**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)# ip igmp last-member-query-count <NUMBER>
```

### ip igmp last-member-query-count <NUMBER>

**Description:** Configures number of group-specific Queries sent

**Syntax:**

|       |                                       |
|-------|---------------------------------------|
| <1-5> | Count value. Number range from=1 to=5 |
|-------|---------------------------------------|

**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)# ip igmp last-member-query-count <NUMBER>
```

# ip igmp last-member-query-response-time

**ip igmp last-member-query-response-time <NUMBER>**

**Description:** Configures last member query response time

**Syntax:**

|        |  |
|--------|--|
| <1-25> | Time in seconds. Number range from=1 to=25 |
|--------|--|

**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)# ip igmp last-member-query-response-time <NUMBER>
```

**ip igmp last-member-query-response-time <NUMBER>**

**Description:** Configures last member query response time

**Syntax:**

|        |  |
|--------|--|
| igmp   | igmp                                       |
| <1-25> | Time in seconds. Number range from=1 to=25 |

**Command Mode:** template ip igmp interface-policy : Create an IGMP interface policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template ip igmp interface-policy <WORD>
(config-tenant-template-ip-igmp-policy)# ip igmp last-member-query-response-time <NUMBER>
```

## ip igmp querier-timeout

### ip igmp querier-timeout <NUMBER>

**Description:** Configures querier timeout for IGMPv2

**Syntax:**

|           |   |
|-----------|---|
| <1-65535> | Time in seconds. Number range from=1 to=65535 |
|-----------|---|

**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)# ip igmp querier-timeout <NUMBER>
```

### ip igmp querier-timeout <NUMBER>

**Description:** Configures querier timeout for IGMPv2

**Syntax:**

|           |   |
|-----------|---|
| igmp      | igmp  |
| <1-65535> | Time in seconds. Number range from=1 to=65535 |

**Command Mode:** template ip igmp interface-policy : Create an IGMP interface policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template ip igmp interface-policy <WORD>
(config-tenant-template-ip-igmp-policy)# ip igmp querier-timeout <NUMBER>
```

### ip igmp querier-timeout <NUMBER>

**Description:** Configures querier timeout for IGMPv2

**Syntax:**

|           |   |
|-----------|---|
| <1-65535> | Time in seconds. Number range from=1 to=65535 |
|-----------|---|

**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)# ip igmp querier-timeout <NUMBER>
```

### ip igmp querier-timeout <NUMBER>

**Description:** Configures querier timeout for IGMPv2

**Syntax:**

|           |   |
|-----------|---|
| <1-65535> | Time in seconds. Number range from=1 to=65535 |
|-----------|---|

**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)# ip igmp querier-timeout <NUMBER>
```

### ip igmp querier-timeout <NUMBER>

**Description:** Configures querier timeout for IGMPv2

**Syntax:**

|           |   |
|-----------|---|
| <1-65535> | Time in seconds. Number range from=1 to=65535 |
|-----------|---|

**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)# ip igmp querier-timeout <NUMBER>
```

### ip igmp querier-timeout <NUMBER>

**Description:** Configures querier timeout for IGMPv2

**Syntax:**

|           |   |
|-----------|---|
| <1-65535> | Time in seconds. Number range from=1 to=65535 |
|-----------|---|

**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)# ip igmp querier-timeout <NUMBER>
```

# ip igmp query-interval

## ip igmp query-interval <NUMBER>

**Description:** Configures interval between Query transmission

**Syntax:**

|           |   |
|-----------|---|
| <1-18000> | Time in seconds. Number range from=1 to=18000 |
|-----------|---|

**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)# ip igmp query-interval <NUMBER>
```

## ip igmp query-interval <NUMBER>

**Description:** Configures interval between Query transmission

**Syntax:**

|           |   |
|-----------|---|
| igmp      | igmp  |
| <1-18000> | Time in seconds. Number range from=1 to=18000 |

**Command Mode:** template ip igmp interface-policy : Create an IGMP interface policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template ip igmp interface-policy <WORD>
(config-tenant-template-ip-igmp-policy)# ip igmp query-interval <NUMBER>
```

## ip igmp query-interval <NUMBER>

**Description:** Configures interval between Query transmission

**Syntax:**

|           |   |
|-----------|---|
| <1-18000> | Time in seconds. Number range from=1 to=18000 |
|-----------|---|

**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)# ip igmp query-interval <NUMBER>
```

### ip igmp query-interval <NUMBER>

**Description:** Configures interval between Query transmission

**Syntax:**

|           |   |
|-----------|---|
| <1-18000> | Time in seconds. Number range from=1 to=18000 |
|-----------|---|

**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)# ip igmp query-interval <NUMBER>
```

### ip igmp query-interval <NUMBER>

**Description:** Configures interval between Query transmission

**Syntax:**

|           |   |
|-----------|---|
| <1-18000> | Time in seconds. Number range from=1 to=18000 |
|-----------|---|

**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)# ip igmp query-interval <NUMBER>
```

### ip igmp query-interval <NUMBER>

**Description:** Configures interval between Query transmission

**Syntax:**

|           |   |
|-----------|---|
| <1-18000> | Time in seconds. Number range from=1 to=18000 |
|-----------|---|

**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)# ip igmp query-interval <NUMBER>
```

# ip igmp query-max-response-time

## ip igmp query-max-response-time <NUMBER>

**Description:** Configures MRT for query messages

**Syntax:**

|        |  |
|--------|--|
| <1-25> | Time in seconds. Number range from=1 to=25 |
|--------|--|

**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)# ip igmp query-max-response-time <NUMBER>
```

## ip igmp query-max-response-time <NUMBER>

**Description:** Configures MRT for query messages

**Syntax:**

|        |  |
|--------|--|
| igmp   | igmp                                       |
| <1-25> | Time in seconds. Number range from=1 to=25 |

**Command Mode:** template ip igmp interface-policy : Create an IGMP interface policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template ip igmp interface-policy <WORD>
(config-tenant-template-ip-igmp-policy)# ip igmp query-max-response-time <NUMBER>
```

## ip igmp query-max-response-time <NUMBER>

**Description:** Configures MRT for query messages

**Syntax:**

|        |  |
|--------|--|
| <1-25> | Time in seconds. Number range from=1 to=25 |
|--------|--|

**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)# ip igmp query-max-response-time <NUMBER>
```

### ip igmp query-max-response-time <NUMBER>

**Description:** Configures MRT for query messages

**Syntax:**

|        |  |
|--------|--|
| <1-25> | Time in seconds. Number range from=1 to=25 |
|--------|--|

**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)# ip igmp query-max-response-time <NUMBER>
```

### ip igmp query-max-response-time <NUMBER>

**Description:** Configures MRT for query messages

**Syntax:**

|        |  |
|--------|--|
| <1-25> | Time in seconds. Number range from=1 to=25 |
|--------|--|

**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)# ip igmp query-max-response-time <NUMBER>
```

### ip igmp query-max-response-time <NUMBER>

**Description:** Configures MRT for query messages

**Syntax:**

|        |  |
|--------|--|
| <1-25> | Time in seconds. Number range from=1 to=25 |
|--------|--|

**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)# ip igmp query-max-response-time <NUMBER>
```

# ip igmp report-link-local-groups

## ip igmp report-link-local-groups

**Description:** Send Reports for groups in 224.0.0.0/24

**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)# ip igmp report-link-local-groups
```

## ip igmp report-link-local-groups

**Description:** Send Reports for groups in 224.0.0.0/24

**Syntax:**

|      |      |
|------|------|
| igmp | igmp |
|------|------|

**Command Mode:** template ip igmp interface-policy : Create an IGMP interface policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template ip igmp interface-policy <WORD>
(config-tenant-template-ip-igmp-policy)# ip igmp report-link-local-groups
```

## ip igmp report-link-local-groups

**Description:** Send Reports for groups in 224.0.0.0/24

**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)# ip igmp report-link-local-groups
```

## ip igmp report-link-local-groups

**Description:** Send Reports for groups in 224.0.0.0/24

**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)# ip igmp report-link-local-groups
```

### **ip igmp report-link-local-groups**

**Description:** Send Reports for groups in 224.0.0.0/24

**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)# ip igmp report-link-local-groups
```

### **ip igmp report-link-local-groups**

**Description:** Send Reports for groups in 224.0.0.0/24

**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)# ip igmp report-link-local-groups
```

# ip igmp report-policy

## ip igmp report-policy <WORD>

**Description:** Configure IGMP report policy

**Syntax:**

|             |                |
|-------------|----------------|
| <i>WORD</i> | Route-map name |
|-------------|----------------|

**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)# ip igmp report-policy <WORD>
```

## ip igmp report-policy <WORD>

**Description:** Configure IGMP report policy

**Syntax:**

|             |                |
|-------------|----------------|
| igmp        | igmp           |
| <i>WORD</i> | Route-map name |

**Command Mode:** template ip igmp interface-policy : Create an IGMP interface policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template ip igmp interface-policy <WORD>
(config-tenant-template-ip-igmp-policy)# ip igmp report-policy <WORD>
```

## ip igmp report-policy <WORD>

**Description:** Configure IGMP report policy

**Syntax:**

|             |                |
|-------------|----------------|
| <i>WORD</i> | Route-map name |
|-------------|----------------|

**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)# ip igmp report-policy <WORD>
```

**ip igmp report-policy <WORD>**

**Description:** Configure IGMP report policy

**Syntax:**

|             |                |
|-------------|----------------|
| <i>WORD</i> | Route-map name |
|-------------|----------------|

**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)# ip igmp report-policy <WORD>
```

**ip igmp report-policy <WORD>**

**Description:** Configure IGMP report policy

**Syntax:**

|             |                |
|-------------|----------------|
| <i>WORD</i> | Route-map name |
|-------------|----------------|

**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)# ip igmp report-policy <WORD>
```

**ip igmp report-policy <WORD>**

**Description:** Configure IGMP report policy

**Syntax:**

|             |                |
|-------------|----------------|
| <i>WORD</i> | Route-map name |
|-------------|----------------|

**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)# ip igmp report-policy <WORD>
```

## ip igmp robustness-variable

### ip igmp robustness-variable <NUMBER>

**Description:** Configures RFC defined Robustness Variable

**Syntax:**

|       |                                       |
|-------|---------------------------------------|
| <1-7> | Count value. Number range from=1 to=7 |
|-------|---------------------------------------|

**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)# ip igmp robustness-variable <NUMBER>
```

### ip igmp robustness-variable <NUMBER>

**Description:** Configures RFC defined Robustness Variable

**Syntax:**

|       |                                       |
|-------|---------------------------------------|
| igmp  | igmp                                  |
| <1-7> | Count value. Number range from=1 to=7 |

**Command Mode:** template ip igmp interface-policy : Create an IGMP interface policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template ip igmp interface-policy <WORD>
(config-tenant-template-ip-igmp-policy)# ip igmp robustness-variable <NUMBER>
```

### ip igmp robustness-variable <NUMBER>

**Description:** Configures RFC defined Robustness Variable

**Syntax:**

|       |                                       |
|-------|---------------------------------------|
| <1-7> | Count value. Number range from=1 to=7 |
|-------|---------------------------------------|

**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)# ip igmp robustness-variable <NUMBER>
```

**ip igmp robustness-variable <NUMBER>**

**Description:** Configures RFC defined Robustness Variable

**Syntax:**

|                          |                                       |
|--------------------------|---------------------------------------|
| <code>&lt;1-7&gt;</code> | Count value. Number range from=1 to=7 |
|--------------------------|---------------------------------------|

**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)# ip igmp robustness-variable <NUMBER>
```

**ip igmp robustness-variable <NUMBER>**

**Description:** Configures RFC defined Robustness Variable

**Syntax:**

|                          |                                       |
|--------------------------|---------------------------------------|
| <code>&lt;1-7&gt;</code> | Count value. Number range from=1 to=7 |
|--------------------------|---------------------------------------|

**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)# ip igmp robustness-variable <NUMBER>
```

**ip igmp robustness-variable <NUMBER>**

**Description:** Configures RFC defined Robustness Variable

**Syntax:**

|                          |                                       |
|--------------------------|---------------------------------------|
| <code>&lt;1-7&gt;</code> | Count value. Number range from=1 to=7 |
|--------------------------|---------------------------------------|

**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)# ip igmp robustness-variable <NUMBER>
```

# ip igmp snooping

## ip igmp snooping

**Description:** IP IGMP snooping settings

**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)# ip igmp snooping
```

## ip igmp snooping

**Description:** IP IGMP snooping settings

**Command Mode:** template ip igmp snooping policy : Create an IGMP snooping policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template ip igmp snooping policy <WORD>
(config-tenant-template-ip-igmp-snooping)# ip igmp snooping
```

# ip igmp snooping access-group route-map leaf interface ethernet ethernet vlan

**ip igmp snooping access-group route-map <WORD> leaf <WORD> interface ethernet ethernet <slot>/<port> vlan <VLAN>**

**Description:** Encap VLAN

**Syntax:**

|   |   |
|---|---|
| route-map                                 | Route-Map used for filtering  |
| <i>WORD</i>                               | route-map name (Max Size 64)  |
| <i>WORD</i>                               | Leaf Number (Max Size 4000). Number range from=0 to=9223372036854775807 |
| interface                                 | Interface keyword   |
| <i>ethernet &lt;slot&gt;/&lt;port&gt;</i> | Ethernet Range  |
| <i>VLAN</i>                               | Encap VLAN  |

**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)# ip igmp snooping access-group route-map <WORD> leaf <WORD> interface
ethernet ethernet <slot>/<port> vlan <VLAN>
```

# ip igmp snooping access-group route-map leaf interface port-channel vlan

**ip igmp snooping access-group route-map <WORD> leaf <WORD> interface port-channel <WORD> [fex <NUMBER>] vlan <VLAN>**

**Description:** Encap VLAN

**Syntax:**

|           |   |
|-----------|---|
| route-map | Route-Map used for filtering  |
| WORD      | route-map name (Max Size 64)  |
| WORD      | Leaf Number (Max Size 4000). Number range from=0 to=9223372036854775807 |
| interface | Interface keyword   |
| WORD      | Port Channel Name (Max Size 64)   |
| <101-199> | (Optional) Fex Id. Number range from=101 to=199                         |
| VLAN      | Encap VLAN  |

**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)# ip igmp snooping access-group route-map <WORD> leaf <WORD> interface
port-channel <WORD> [fex <NUMBER>] vlan <VLAN>
```

# ip igmp snooping access-group route-map vpc context interface vpc vlan

**ip igmp snooping access-group route-map <WORD> vpc context <WORD> <WORD> interface vpc <WORD> [fex <fex>] vlan <VLAN>**

**Description:** Encap VLAN

**Syntax:**

|           |   |
|-----------|---|
| route-map | Route-Map used for filtering  |
| WORD      | route-map name (Max Size 64)  |
| context   | VPC Context   |
| WORD      | First VPC leaf (Max Size 4000). Number range from=0 to=9223372036854775807  |
| WORD      | Second VPC leaf (Max Size 4000). Number range from=0 to=9223372036854775807 |
| interface | VPC Interface name  |
| vpc       | VPC Interface name  |
| WORD      | VPC Name (Max Size 64)  |
| fex       | (Optional) Fex Id. Number range from=101 to=199                             |
| VLAN      | Encap VLAN  |

**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)# ip igmp snooping access-group route-map <WORD> vpc context <WORD>
<WORD> interface vpc <WORD> [fex <fex>] vlan <VLAN>
```

# ip igmp snooping fast-leave

## ip igmp snooping fast-leave

**Description:** Enable IP IGMP Snooping fast leave processing

**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)# ip igmp snooping fast-leave
```

## ip igmp snooping fast-leave

**Description:** Enable IP IGMP Snooping fast leave processing

**Command Mode:** template ip igmp snooping policy : Create an IGMP snooping policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template ip igmp snooping policy <WORD>
(config-tenant-template-ip-igmp-snooping)# ip igmp snooping fast-leave
```



# ip igmp snooping last-member-query-interval

## ip igmp snooping last-member-query-interval <NUMBER>

**Description:** Change the IP IGMP snooping last member query interval param

**Syntax:**

|        |  |
|--------|--|
| <1-25> | Last Memeber Query Interval Value. Number range from=1 to=25 |
|--------|--|

**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)# ip igmp snooping last-member-query-interval <NUMBER>
```

## ip igmp snooping last-member-query-interval <NUMBER>

**Description:** Change the IP IGMP snooping last member query interval param

**Syntax:**

|        |  |
|--------|--|
| <1-25> | Last Memeber Query Interval Value. Number range from=1 to=25 |
|--------|--|

**Command Mode:** template ip igmp snooping policy : Create an IGMP snooping policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template ip igmp snooping policy <WORD>
(config-tenant-template-ip-igmp-snooping)# ip igmp snooping last-member-query-interval
<NUMBER>
```

# ip igmp snooping policy

**ip igmp snooping policy** <WORD>

**Description:** Associate the BD with an IGMP snooping policy

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Name of the IGMP snooping policy to attach (Max Size 64) |
|-------------|--|

**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)# ip igmp snooping policy <WORD>
```

# ip igmp snooping querier

## ip igmp snooping querier

**Description:** Enable IP IGMP Snooping querier processing

**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)# ip igmp snooping querier
```

## ip igmp snooping querier

**Description:** Enable IP IGMP Snooping querier processing

**Command Mode:** template ip igmp snooping policy : Create an IGMP snooping policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template ip igmp snooping policy <WORD>
(config-tenant-template-ip-igmp-snooping)# ip igmp snooping querier
```

# ip igmp snooping query-interval

**ip igmp snooping query-interval <NUMBER>**

**Description:** Change the IP IGMP snooping query interval param

**Syntax:**

|           |  |
|-----------|--|
| <1-18000> | Query Interval Value. Number range from=1 to=18000 |
|-----------|--|

**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)# ip igmp snooping query-interval <NUMBER>
```

**ip igmp snooping query-interval <NUMBER>**

**Description:** Change the IP IGMP snooping query interval param

**Syntax:**

|           |  |
|-----------|--|
| <1-18000> | Query Interval Value. Number range from=1 to=18000 |
|-----------|--|

**Command Mode:** template ip igmp snooping policy : Create an IGMP snooping policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template ip igmp snooping policy <WORD>
(config-tenant-template-ip-igmp-snooping)# ip igmp snooping query-interval <NUMBER>
```

# ip igmp snooping query-max-response-time

**ip igmp snooping query-max-response-time <NUMBER>**

**Description:** Change the IP IGMP snooping max query response time

**Syntax:**

|        |  |
|--------|--|
| <1-25> | Query Max Response Time. Number range from=1 to=25 |
|--------|--|

**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)# ip igmp snooping query-max-response-time <NUMBER>
```

**ip igmp snooping query-max-response-time <NUMBER>**

**Description:** Change the IP IGMP snooping max query response time

**Syntax:**

|        |  |
|--------|--|
| <1-25> | Query Max Response Time. Number range from=1 to=25 |
|--------|--|

**Command Mode:** template ip igmp snooping policy : Create an IGMP snooping policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template ip igmp snooping policy <WORD>
(config-tenant-template-ip-igmp-snooping)# ip igmp snooping query-max-response-time <NUMBER>
```

# ip igmp snooping startup-query-count

## ip igmp snooping startup-query-count <NUMBER>

**Description:** Change the IP IGMP snooping number of initial queries to send

**Syntax:**

|        |  |
|--------|--|
| <1-10> | Start Query Count. Number range from=1 to=10 |
|--------|--|

**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)# ip igmp snooping startup-query-count <NUMBER>
```

## ip igmp snooping startup-query-count <NUMBER>

**Description:** Change the IP IGMP snooping number of initial queries to send

**Syntax:**

|        |  |
|--------|--|
| <1-10> | Start Query Count. Number range from=1 to=10 |
|--------|--|

**Command Mode:** template ip igmp snooping policy : Create an IGMP snooping policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template ip igmp snooping policy <WORD>
(config-tenant-template-ip-igmp-snooping)# ip igmp snooping startup-query-count <NUMBER>
```

# ip igmp snooping startup-query-interval

**ip igmp snooping startup-query-interval <NUMBER>**

**Description:** Change the IP IGMP snooping time for sending initial queries

**Syntax:**

|           |  |
|-----------|--|
| <1-18000> | Start Query Interval Value. Number range from=1 to=18000 |
|-----------|--|

**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)# ip igmp snooping startup-query-interval <NUMBER>
```

**ip igmp snooping startup-query-interval <NUMBER>**

**Description:** Change the IP IGMP snooping time for sending initial queries

**Syntax:**

|           |  |
|-----------|--|
| <1-18000> | Start Query Interval Value. Number range from=1 to=18000 |
|-----------|--|

**Command Mode:** template ip igmp snooping policy : Create an IGMP snooping policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template ip igmp snooping policy <WORD>
(config-tenant-template-ip-igmp-snooping)# ip igmp snooping startup-query-interval <NUMBER>
```

# ip igmp snooping static-group leaf interface ethernet ethernet vlan

**ip igmp snooping static-group <A.B.C.D> [source <A.B.C.D>] leaf <WORD> interface ethernet ethernet <slot>/<port> vlan <VLAN>**

**Description:** Encap VLAN

**Syntax:**

|   |   |
|---|---|
| <i>A.B.C.D</i>                            | IP Multicast address in format i.i.i.i                                  |
| <i>A.B.C.D</i>                            | (Optional) IP Unicast address in format i.i.i.i                         |
| <i>WORD</i>                               | Leaf Number (Max Size 4000). Number range from=0 to=9223372036854775807 |
| interface                                 | Interface keyword   |
| <i>ethernet &lt;slot&gt;/&lt;port&gt;</i> | Ethernet Range  |
| <i>VLAN</i>                               | Encap VLAN  |

**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)# ip igmp snooping static-group <A.B.C.D> [source <A.B.C.D>] leaf
<WORD> interface ethernet ethernet <slot>/<port> vlan <VLAN>
```



# ip igmp snooping static-group leaf interface port-channel vlan

**ip igmp snooping static-group <A.B.C.D> [source <A.B.C.D>] leaf <WORD> interface port-channel <WORD> [fex <NUMBER>] vlan <VLAN>**

**Description:** Encap VLAN

**Syntax:**

|                |   |
|----------------|---|
| <i>A.B.C.D</i> | IP Multicast address in format i.i.i.i                                  |
| <i>A.B.C.D</i> | (Optional) IP Unicast address in format i.i.i.i                         |
| <i>WORD</i>    | Leaf Number (Max Size 4000). Number range from=0 to=9223372036854775807 |
| interface      | Interface keyword   |
| <i>WORD</i>    | Port Channel Name (Max Size 64)   |
| <101-199>      | (Optional) Fex Id. Number range from=101 to=199                         |
| <i>VLAN</i>    | Encap VLAN  |

**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)# ip igmp snooping static-group <A.B.C.D> [source <A.B.C.D>] leaf
<WORD> interface port-channel <WORD> [fex <NUMBER>] vlan <VLAN>
```

# ip igmp snooping static-group vpc context interface vpc vlan

**ip igmp snooping static-group** <A.B.C.D> [source <A.B.C.D>] vpc context <WORD> <WORD> interface vpc <WORD> [fex <fex>] vlan <VLAN>

**Description:** Encap VLAN

**Syntax:**

|                |   |
|----------------|---|
| <i>A.B.C.D</i> | IP Multicast address in format i.i.i.i                                      |
| <i>A.B.C.D</i> | (Optional) IP Unicast address in format i.i.i.i                             |
| context        | VPC Context   |
| <i>WORD</i>    | First VPC leaf (Max Size 4000). Number range from=0 to=9223372036854775807  |
| <i>WORD</i>    | Second VPC leaf (Max Size 4000). Number range from=0 to=9223372036854775807 |
| interface      | VPC Interface name  |
| vpc            | VPC Interface name  |
| <i>WORD</i>    | VPC Name (Max Size 64)  |
| <i>fex</i>     | (Optional) Fex Id. Number range from=101 to=199                             |
| <i>VLAN</i>    | Encap VLAN  |

**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)# ip igmp snooping static-group <A.B.C.D> [source <A.B.C.D>] vpc
context <WORD> <WORD> interface vpc <WORD> [fex <fex>] vlan <VLAN>
```

# ip igmp ssm-translate

**ip igmp ssm-translate** <A.B.C.D/LEN> <A.B.C.D>

**Description:** Translate IGMPv1/v2 reports to (S,G) route entries

**Syntax:**

|                    |                             |
|--------------------|-----------------------------|
| <i>A.B.C.D/LEN</i> | IP Multicast group range    |
| <i>A.B.C.D</i>     | IP Multicast address source |

**Command Mode:** vrf : Configuration for vrf

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# vrf context <WORD>
(config-tenant-vrf)# ip igmp ssm-translate <A.B.C.D/LEN> <A.B.C.D>
```

## ip igmp startup-query-count

### ip igmp startup-query-count <NUMBER>

**Description:** Configures number of queries sent at startup

**Syntax:**

|        |  |
|--------|--|
| <1-10> | Time in seconds. Number range from=1 to=10 |
|--------|--|

**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)# ip igmp startup-query-count <NUMBER>
```

### ip igmp startup-query-count <NUMBER>

**Description:** Configures number of queries sent at startup

**Syntax:**

|        |  |
|--------|--|
| igmp   | igmp                                       |
| <1-10> | Time in seconds. Number range from=1 to=10 |

**Command Mode:** template ip igmp interface-policy : Create an IGMP interface policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template ip igmp interface-policy <WORD>
(config-tenant-template-ip-igmp-policy)# ip igmp startup-query-count <NUMBER>
```

### ip igmp startup-query-count <NUMBER>

**Description:** Configures number of queries sent at startup

**Syntax:**

|        |  |
|--------|--|
| <1-10> | Time in seconds. Number range from=1 to=10 |
|--------|--|

**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)# ip igmp startup-query-count <NUMBER>
```

**ip igmp startup-query-count <NUMBER>**

**Description:** Configures number of queries sent at startup

**Syntax:**

|                           |  |
|---------------------------|--|
| <code>&lt;1-10&gt;</code> | Time in seconds. Number range from=1 to=10 |
|---------------------------|--|

**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)# ip igmp startup-query-count <NUMBER>
```

**ip igmp startup-query-count <NUMBER>**

**Description:** Configures number of queries sent at startup

**Syntax:**

|                           |  |
|---------------------------|--|
| <code>&lt;1-10&gt;</code> | Time in seconds. Number range from=1 to=10 |
|---------------------------|--|

**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)# ip igmp startup-query-count <NUMBER>
```

**ip igmp startup-query-count <NUMBER>**

**Description:** Configures number of queries sent at startup

**Syntax:**

|                           |  |
|---------------------------|--|
| <code>&lt;1-10&gt;</code> | Time in seconds. Number range from=1 to=10 |
|---------------------------|--|

**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)# ip igmp startup-query-count <NUMBER>
```

# ip igmp startup-query-interval

**ip igmp startup-query-interval <NUMBER>**

**Description:** Configures query interval at startup

**Syntax:**

|           |   |
|-----------|---|
| <1-18000> | Time in seconds. Number range from=1 to=18000 |
|-----------|---|

**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)# ip igmp startup-query-interval <NUMBER>
```

**ip igmp startup-query-interval <NUMBER>**

**Description:** Configures query interval at startup

**Syntax:**

|           |   |
|-----------|---|
| igmp      | igmp  |
| <1-18000> | Time in seconds. Number range from=1 to=18000 |

**Command Mode:** template ip igmp interface-policy : Create an IGMP interface policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template ip igmp interface-policy <WORD>
(config-tenant-template-ip-igmp-policy)# ip igmp startup-query-interval <NUMBER>
```

**ip igmp startup-query-interval <NUMBER>**

**Description:** Configures query interval at startup

**Syntax:**

|           |   |
|-----------|---|
| <1-18000> | Time in seconds. Number range from=1 to=18000 |
|-----------|---|

**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)# ip igmp startup-query-interval <NUMBER>
```

**ip igmp startup-query-interval <NUMBER>**

**Description:** Configures query interval at startup

**Syntax:**

|           |   |
|-----------|---|
| <1-18000> | Time in seconds. Number range from=1 to=18000 |
|-----------|---|

**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)# ip igmp startup-query-interval <NUMBER>
```

**ip igmp startup-query-interval <NUMBER>**

**Description:** Configures query interval at startup

**Syntax:**

|           |   |
|-----------|---|
| <1-18000> | Time in seconds. Number range from=1 to=18000 |
|-----------|---|

**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)# ip igmp startup-query-interval <NUMBER>
```

**ip igmp startup-query-interval <NUMBER>**

**Description:** Configures query interval at startup

**Syntax:**

|           |   |
|-----------|---|
| <1-18000> | Time in seconds. Number range from=1 to=18000 |
|-----------|---|

**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)# ip igmp startup-query-interval <NUMBER>
```

# ip igmp state-limit

## ip igmp state-limit <NUMBER>

**Description:** Configures State limit

**Syntax:**

|                |   |
|----------------|---|
| <1-4294967295> | Maximum states allowed. Number range from=1 to=4294967295 |
|----------------|---|

**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)# ip igmp state-limit <NUMBER>
```

## ip igmp state-limit <NUMBER>

**Description:** Configures State limit

**Syntax:**

|                |   |
|----------------|---|
| igmp           | igmp  |
| <1-4294967295> | Maximum states allowed. Number range from=1 to=4294967295 |

**Command Mode:** template ip igmp interface-policy : Create an IGMP interface policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template ip igmp interface-policy <WORD>
(config-tenant-template-ip-igmp-policy)# ip igmp state-limit <NUMBER>
```

## ip igmp state-limit <NUMBER>

**Description:** Configures State limit

**Syntax:**

|                |   |
|----------------|---|
| <1-4294967295> | Maximum states allowed. Number range from=1 to=4294967295 |
|----------------|---|

**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)# ip igmp state-limit <NUMBER>
```

### ip igmp state-limit <NUMBER>

**Description:** Configures State limit

**Syntax:**

|                |   |
|----------------|---|
| <1-4294967295> | Maximum states allowed. Number range from=1 to=4294967295 |
|----------------|---|

**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)# ip igmp state-limit <NUMBER>
```

### ip igmp state-limit <NUMBER>

**Description:** Configures State limit

**Syntax:**

|                |   |
|----------------|---|
| <1-4294967295> | Maximum states allowed. Number range from=1 to=4294967295 |
|----------------|---|

**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)# ip igmp state-limit <NUMBER>
```

### ip igmp state-limit <NUMBER>

**Description:** Configures State limit

**Syntax:**

|                |   |
|----------------|---|
| <1-4294967295> | Maximum states allowed. Number range from=1 to=4294967295 |
|----------------|---|

**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)# ip igmp state-limit <NUMBER>
```

# ip igmp state-limit reserved

**ip igmp state-limit <NUMBER> reserved <WORD> <NUMBER>**

**Description:** Reserve the states using route-map

**Syntax:**

|                |   |
|----------------|---|
| <1-4294967295> | Maximum states allowed. Number range from=1 to=4294967295                               |
| WORD           | Route-map name  |
| <0-4294967295> | Maximum (*,G)/(S,G) entires allowed on the interface. Number range from=0 to=4294967295 |

**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)# ip igmp state-limit <NUMBER> reserved <WORD> <NUMBER>
```

**ip igmp state-limit <NUMBER> reserved <WORD> <NUMBER>**

**Description:** Reserve the states using route-map

**Syntax:**

|                |   |
|----------------|---|
| igmp           | igmp  |
| <1-4294967295> | Maximum states allowed. Number range from=1 to=4294967295                               |
| WORD           | Route-map name  |
| <0-4294967295> | Maximum (*,G)/(S,G) entires allowed on the interface. Number range from=0 to=4294967295 |

**Command Mode:** template ip igmp interface-policy : Create an IGMP interface policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template ip igmp interface-policy <WORD>
(config-tenant-template-ip-igmp-policy)# ip igmp state-limit <NUMBER> reserved <WORD>
<NUMBER>
```

**ip igmp state-limit <NUMBER> reserved <WORD> <NUMBER>**

**Description:** Reserve the states using route-map

**Syntax:**

|                |   |
|----------------|---|
| <1-4294967295> | Maximum states allowed. Number range from=1 to=4294967295                               |
| WORD           | Route-map name  |
| <0-4294967295> | Maximum (*,G)/(S,G) entires allowed on the interface. Number range from=0 to=4294967295 |

**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)# ip igmp state-limit <NUMBER> reserved <WORD> <NUMBER>
```

**ip igmp state-limit <NUMBER> reserved <WORD> <NUMBER>**

**Description:** Reserve the states using route-map

**Syntax:**

|                |   |
|----------------|---|
| <1-4294967295> | Maximum states allowed. Number range from=1 to=4294967295                               |
| WORD           | Route-map name  |
| <0-4294967295> | Maximum (*,G)/(S,G) entires allowed on the interface. Number range from=0 to=4294967295 |

**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)# ip igmp state-limit <NUMBER> reserved <WORD> <NUMBER>
```

**ip igmp state-limit <NUMBER> reserved <WORD> <NUMBER>**

**Description:** Reserve the states using route-map

**Syntax:**

|                |   |
|----------------|---|
| <1-4294967295> | Maximum states allowed. Number range from=1 to=4294967295                               |
| WORD           | Route-map name  |
| <0-4294967295> | Maximum (*,G)/(S,G) entires allowed on the interface. Number range from=0 to=4294967295 |

**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)# ip igmp state-limit <NUMBER> reserved <WORD> <NUMBER>
```

**ip igmp state-limit <NUMBER> reserved <WORD> <NUMBER>**

**Description:** Reserve the states using route-map

**Syntax:**

|                |   |
|----------------|---|
| <1-4294967295> | Maximum states allowed. Number range from=1 to=4294967295                               |
| <i>WORD</i>    | Route-map name  |
| <0-4294967295> | Maximum (*,G)/(S,G) entires allowed on the interface. Number range from=0 to=4294967295 |

**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)# ip igmp state-limit <NUMBER> reserved <WORD> <NUMBER>
```

# ip igmp static-oif

## ip igmp static-oif route-map <WORD>

**Description:** Configures static oif for a multicast forwarding

**Syntax:**

|           |                |
|-----------|----------------|
| route-map | route-map      |
| WORD      | Route-map name |

**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)# ip igmp static-oif route-map <WORD>
```

## ip igmp static-oif route-map <WORD>

**Description:** Configures static oif for a multicast forwarding

**Syntax:**

|           |                |
|-----------|----------------|
| igmp      | igmp           |
| route-map | route-map      |
| WORD      | Route-map name |

**Command Mode:** template ip igmp interface-policy : Create an IGMP interface policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template ip igmp interface-policy <WORD>
(config-tenant-template-ip-igmp-policy)# ip igmp static-oif route-map <WORD>
```

## ip igmp static-oif route-map <WORD>

**Description:** Configures static oif for a multicast forwarding

**Syntax:**

|           |                |
|-----------|----------------|
| route-map | route-map      |
| WORD      | Route-map name |

**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)# ip igmp static-oif route-map <WORD>
```

**ip igmp static-oif route-map <WORD>**

**Description:** Configures static oif for a multicast forwarding

**Syntax:**

|             |                |
|-------------|----------------|
| route-map   | route-map      |
| <i>WORD</i> | Route-map name |

**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)# ip igmp static-oif route-map <WORD>
```

**ip igmp static-oif route-map <WORD>**

**Description:** Configures static oif for a multicast forwarding

**Syntax:**

|             |                |
|-------------|----------------|
| route-map   | route-map      |
| <i>WORD</i> | Route-map name |

**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)# ip igmp static-oif route-map <WORD>
```

**ip igmp static-oif route-map <WORD>**

**Description:** Configures static oif for a multicast forwarding

**Syntax:**

|             |                |
|-------------|----------------|
| route-map   | route-map      |
| <i>WORD</i> | Route-map name |

**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)# ip igmp static-oif route-map <WORD>
```

# ip igmp version

## ip igmp version <arg>

**Description:** Configures IGMP version number for interface

**Syntax:**

|            |                     |
|------------|---------------------|
| <i>arg</i> | IGMP version number |
|------------|---------------------|

**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)# ip igmp version <>
```

## ip igmp version <arg>

**Description:** Configures IGMP version number for interface

**Syntax:**

|            |                     |
|------------|---------------------|
| igmp       | igmp                |
| <i>arg</i> | IGMP version number |

**Command Mode:** template ip igmp interface-policy : Create an IGMP interface policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template ip igmp interface-policy <WORD>
(config-tenant-template-ip-igmp-policy)# ip igmp version <>
```

## ip igmp version <arg>

**Description:** Configures IGMP version number for interface

**Syntax:**

|            |                     |
|------------|---------------------|
| <i>arg</i> | IGMP version number |
|------------|---------------------|

**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)# ip igmp version <>
```

**ip igmp version <arg>**

**Description:** Configures IGMP version number for interface

**Syntax:**

|            |                     |
|------------|---------------------|
| <i>arg</i> | IGMP version number |
|------------|---------------------|

**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)# ip igmp version <>
```

**ip igmp version <arg>**

**Description:** Configures IGMP version number for interface

**Syntax:**

|            |                     |
|------------|---------------------|
| <i>arg</i> | IGMP version number |
|------------|---------------------|

**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)# ip igmp version <>
```

**ip igmp version <arg>**

**Description:** Configures IGMP version number for interface

**Syntax:**

|            |                     |
|------------|---------------------|
| <i>arg</i> | IGMP version number |
|------------|---------------------|

**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)# ip igmp version <>
```

# ip multicast

## ip multicast

**Description:** Enable multicast on this bridge-domain

**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)# ip multicast
```

# ip next-hop-self

## ip next-hop-self eigrp default

**Description:** Set the next-hop-self flag

**Syntax:**

|         |                        |
|---------|------------------------|
| eigrp   | EIGRP                  |
| default | EIGRP default instance |

**Command Mode:** template eigrp interface-policy : Configure EIGRP Interface policy templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template eigrp interface-policy <WORD> tenant <WORD>
(config-template-eigrp-if-pol)# ip next-hop-self eigrp default
```

## ip next-hop-self eigrp default

**Description:** Set EIGRP next-hop-self flag

**Syntax:**

|         |                        |
|---------|------------------------|
| eigrp   | EIGRP                  |
| default | EIGRP default instance |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# ip next-hop-self eigrp default
```

## ip next-hop-self eigrp default

**Description:** Set EIGRP next-hop-self flag

**Syntax:**

|         |                        |
|---------|------------------------|
| eigrp   | EIGRP                  |
| default | EIGRP default instance |

**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)# ip next-hop-self eigrp default
```

**ip next-hop-self eigrp default**

**Description:** Set EIGRP next-hop-self flag

**Syntax:**

|         |                        |
|---------|------------------------|
| eigrp   | EIGRP                  |
| default | EIGRP default instance |

**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)# ip next-hop-self eigrp default
```

**ip next-hop-self eigrp default**

**Description:** Set the next-hop-self flag

**Syntax:**

|         |                        |
|---------|------------------------|
| eigrp   | EIGRP                  |
| default | EIGRP default instance |

**Command Mode:** template eigrp interface-policy : Configure EIGRP Interface policy templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# template eigrp interface-policy <WORD> tenant <WORD>
(config-template-eigrp-if-pol)# ip next-hop-self eigrp default
```

**ip next-hop-self eigrp default**

**Description:** Set EIGRP next-hop-self flag

**Syntax:**

|         |                        |
|---------|------------------------|
| eigrp   | EIGRP                  |
| default | EIGRP default instance |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# ip next-hop-self eigrp default
```

**ip next-hop-self eigrp default**

**Description:** Set EIGRP next-hop-self flag

**Syntax:**

|         |                        |
|---------|------------------------|
| eigrp   | EIGRP                  |
| default | EIGRP default instance |

**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)# ip next-hop-self eigrp default
```

**ip next-hop-self eigrp default**

**Description:** Set EIGRP next-hop-self flag

**Syntax:**

|         |                        |
|---------|------------------------|
| eigrp   | EIGRP                  |
| default | EIGRP default instance |

**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)# ip next-hop-self eigrp default
```

# ip ospf authentication-key

## ip ospf authentication-key <WORD>

**Description:** Set OSPF authentication key

**Syntax:**

|             |                         |
|-------------|-------------------------|
| <i>WORD</i> | OSPF authentication key |
|-------------|-------------------------|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# ip ospf authentication-key <WORD>
```

## ip ospf authentication-key <WORD>

**Description:** Set OSPF authentication key

**Syntax:**

|             |                         |
|-------------|-------------------------|
| <i>WORD</i> | OSPF authentication key |
|-------------|-------------------------|

**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)# ip ospf authentication-key <WORD>
```

## ip ospf authentication-key <WORD>

**Description:** Set OSPF authentication key

**Syntax:**

|             |                         |
|-------------|-------------------------|
| <i>WORD</i> | OSPF authentication key |
|-------------|-------------------------|

**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)# ip ospf authentication-key <WORD>
```

**ip ospf authentication-key <WORD>**

**Description:** Set OSPF authentication key

**Syntax:**

|             |                         |
|-------------|-------------------------|
| <i>WORD</i> | OSPF authentication key |
|-------------|-------------------------|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# ip ospf authentication-key <WORD>
```

**ip ospf authentication-key <WORD>**

**Description:** Set OSPF authentication key

**Syntax:**

|             |                         |
|-------------|-------------------------|
| <i>WORD</i> | OSPF authentication key |
|-------------|-------------------------|

**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)# ip ospf authentication-key <WORD>
```

**ip ospf authentication-key <WORD>**

**Description:** Set OSPF authentication key

**Syntax:**

|             |                         |
|-------------|-------------------------|
| <i>WORD</i> | OSPF authentication key |
|-------------|-------------------------|

**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)# ip ospf authentication-key <WORD>
```

# ip ospf authentication

## ip ospf authentication md5|none|simple

**Description:** Set the OSPF authentication type

**Syntax:**

|        |                       |
|--------|-----------------------|
| md5    | MD5 authentication    |
| none   | No authentication     |
| simple | Simple authentication |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# ip ospf authentication md5|none|simple
```

## ip ospf authentication md5|none|simple

**Description:** Set the OSPF authentication type

**Syntax:**

|        |                       |
|--------|-----------------------|
| md5    | MD5 authentication    |
| none   | No authentication     |
| simple | Simple authentication |

**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)# ip ospf authentication md5|none|simple
```

## ip ospf authentication md5|none|simple

**Description:** Set the OSPF authentication type

**Syntax:**

|      |                    |
|------|--------------------|
| md5  | MD5 authentication |
| none | No authentication  |



|        |                       |
|--------|-----------------------|
| simple | Simple authentication |
|--------|-----------------------|

**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)# ip ospf authentication md5|none|simple
```

**ip ospf authentication md5|none|simple**

**Description:** Set the OSPF authentication type

**Syntax:**

|        |                       |
|--------|-----------------------|
| md5    | MD5 authentication    |
| none   | No authentication     |
| simple | Simple authentication |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# ip ospf authentication md5|none|simple
```

**ip ospf authentication md5|none|simple**

**Description:** Set the OSPF authentication type

**Syntax:**

|        |                       |
|--------|-----------------------|
| md5    | MD5 authentication    |
| none   | No authentication     |
| simple | Simple authentication |

**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)# ip ospf authentication md5|none|simple
```

**ip ospf authentication md5|none|simple**

**Description:** Set the OSPF authentication type

**Syntax:**

|        |                       |
|--------|-----------------------|
| md5    | MD5 authentication    |
| none   | No authentication     |
| simple | Simple authentication |

**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)# ip ospf authentication md5|none|simple
```

# ip ospf bfd

## ip ospf bfd enable

**Description:** Enable Bidirectional Forwarding Detection

**Syntax:**

|        |            |
|--------|------------|
| enable | Enable BFD |
|--------|------------|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# ip ospf bfd enable
```

## ip ospf bfd enable

**Description:** Enable Bidirectional Forwarding Detection

**Syntax:**

|        |            |
|--------|------------|
| enable | Enable BFD |
|--------|------------|

**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)# ip ospf bfd enable
```

## ip ospf bfd enable

**Description:** Enable Bidirectional Forwarding Detection

**Syntax:**

|        |            |
|--------|------------|
| enable | Enable BFD |
|--------|------------|

**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)# ip ospf bfd enable
```

**ip ospf bfd enable****Description:** Enable Bidirectional Forwarding Detection**Syntax:**

|        |            |
|--------|------------|
| enable | Enable BFD |
|--------|------------|

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

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

**ip ospf bfd enable****Description:** Enable Bidirectional Forwarding Detection**Syntax:**

|        |            |
|--------|------------|
| enable | Enable BFD |
|--------|------------|

**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)# ip ospf bfd enable
```

**ip ospf bfd enable****Description:** Enable Bidirectional Forwarding Detection**Syntax:**

|        |            |
|--------|------------|
| enable | Enable BFD |
|--------|------------|

**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)# ip ospf bfd enable
```

# ip ospf cost

## ip ospf cost <NUMBER>

**Description:** Set OSPF cost for the interface

**Syntax:**

|           |   |
|-----------|---|
| <0-65535> | OSPF cost. Number range from=0 to=65535 |
|-----------|---|

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

**Command Path:**

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

## ip ospf cost <NUMBER>

**Description:** Set OSPF cost for the interface

**Syntax:**

|           |   |
|-----------|---|
| <0-65535> | OSPF cost. Number range from=0 to=65535 |
|-----------|---|

**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)# ip ospf cost <NUMBER>
```

## ip ospf cost <NUMBER>

**Description:** Set OSPF cost for the interface

**Syntax:**

|           |   |
|-----------|---|
| <0-65535> | OSPF cost. Number range from=0 to=65535 |
|-----------|---|

**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)# ip ospf cost <NUMBER>
```

**ip ospf cost <NUMBER>****Description:** Set OSPF cost for the interface**Syntax:**

|           |   |
|-----------|---|
| <0-65535> | OSPF cost. Number range from=0 to=65535 |
|-----------|---|

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

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

**ip ospf cost <NUMBER>****Description:** Set OSPF cost for the interface**Syntax:**

|           |   |
|-----------|---|
| <0-65535> | OSPF cost. Number range from=0 to=65535 |
|-----------|---|

**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)# ip ospf cost <NUMBER>
```

**ip ospf cost <NUMBER>****Description:** Set OSPF cost for the interface**Syntax:**

|           |   |
|-----------|---|
| <0-65535> | OSPF cost. Number range from=0 to=65535 |
|-----------|---|

**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)# ip ospf cost <NUMBER>
```

# ip ospf dead-interval

## ip ospf dead-interval <NUMBER>

**Description:** Set the interval between hello packets from a neighbor before the router declares the neighbor as down

**Syntax:**

|           |   |
|-----------|---|
| <1-65535> | Interval in seconds. Number range from=1 to=65535 |
|-----------|---|

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

**Command Path:**

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

## ip ospf dead-interval <NUMBER>

**Description:** Set the interval between hello packets from a neighbor before the router declares the neighbor as down

**Syntax:**

|           |   |
|-----------|---|
| <1-65535> | Interval in seconds. Number range from=1 to=65535 |
|-----------|---|

**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)# ip ospf dead-interval <NUMBER>
```

## ip ospf dead-interval <NUMBER>

**Description:** Set the interval between hello packets from a neighbor before the router declares the neighbor as down

**Syntax:**

|           |   |
|-----------|---|
| <1-65535> | Interval in seconds. Number range from=1 to=65535 |
|-----------|---|

**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)# ip ospf dead-interval <NUMBER>
```

**ip ospf dead-interval <NUMBER>**

**Description:** Set the interval between hello packets from a neighbor before the router declares the neighbor as down

**Syntax:**

|           |   |
|-----------|---|
| <1-65535> | Interval in seconds. Number range from=1 to=65535 |
|-----------|---|

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

**Command Path:**

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

**ip ospf dead-interval <NUMBER>**

**Description:** Set the interval between hello packets from a neighbor before the router declares the neighbor as down

**Syntax:**

|           |   |
|-----------|---|
| <1-65535> | Interval in seconds. Number range from=1 to=65535 |
|-----------|---|

**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)# ip ospf dead-interval <NUMBER>
```

**ip ospf dead-interval <NUMBER>**

**Description:** Set the interval between hello packets from a neighbor before the router declares the neighbor as down

**Syntax:**

|           |   |
|-----------|---|
| <1-65535> | Interval in seconds. Number range from=1 to=65535 |
|-----------|---|

**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)# ip ospf dead-interval <NUMBER>
```

# ip ospf hello-interval

## ip ospf hello-interval <NUMBER>

**Description:** Set interval between hello packets that OSPF sends on the interface

**Syntax:**

|           |   |
|-----------|---|
| <1-65535> | Interval in seconds. Number range from=1 to=65535 |
|-----------|---|

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

**Command Path:**

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

## ip ospf hello-interval <NUMBER>

**Description:** Set interval between hello packets that OSPF sends on the interface

**Syntax:**

|           |   |
|-----------|---|
| <1-65535> | Interval in seconds. Number range from=1 to=65535 |
|-----------|---|

**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)# ip ospf hello-interval <NUMBER>
```

## ip ospf hello-interval <NUMBER>

**Description:** Set interval between hello packets that OSPF sends on the interface

**Syntax:**

|           |   |
|-----------|---|
| <1-65535> | Interval in seconds. Number range from=1 to=65535 |
|-----------|---|

**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)# ip ospf hello-interval <NUMBER>
```

**ip ospf hello-interval <NUMBER>****Description:** Set interval between hello packets that OSPF sends on the interface**Syntax:**

|           |   |
|-----------|---|
| <1-65535> | Interval in seconds. Number range from=1 to=65535 |
|-----------|---|

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

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

**ip ospf hello-interval <NUMBER>****Description:** Set interval between hello packets that OSPF sends on the interface**Syntax:**

|           |   |
|-----------|---|
| <1-65535> | Interval in seconds. Number range from=1 to=65535 |
|-----------|---|

**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)# ip ospf hello-interval <NUMBER>
```

**ip ospf hello-interval <NUMBER>****Description:** Set interval between hello packets that OSPF sends on the interface**Syntax:**

|           |   |
|-----------|---|
| <1-65535> | Interval in seconds. Number range from=1 to=65535 |
|-----------|---|

**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)# ip ospf hello-interval <NUMBER>
```

# ip ospf inherit

## ip ospf inherit interface-policy <WORD>

**Description:** Inherit OSPF Template Policy under this VRF

**Syntax:**

|                  |   |
|------------------|---|
| interface-policy | Inherit OSPF interface-policy           |
| <i>WORD</i>      | OSPF Template Policy name (Max Size 64) |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# ip ospf inherit interface-policy <WORD>
```

## ip ospf inherit interface-policy <WORD>

**Description:** Inherit OSPF Template Policy under this VRF

**Syntax:**

|                  |   |
|------------------|---|
| interface-policy | Inherit OSPF interface-policy           |
| <i>WORD</i>      | OSPF Template Policy name (Max Size 64) |

**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)# ip ospf inherit interface-policy <WORD>
```

## ip ospf inherit interface-policy <WORD>

**Description:** Inherit OSPF Template Policy under this VRF

**Syntax:**

|                  |   |
|------------------|---|
| interface-policy | Inherit OSPF interface-policy           |
| <i>WORD</i>      | OSPF Template Policy name (Max Size 64) |

**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)# ip ospf inherit interface-policy <WORD>
```

**ip ospf inherit interface-policy <WORD>**

**Description:** Inherit OSPF Template Policy under this VRF

**Syntax:**

|                  |   |
|------------------|---|
| interface-policy | Inherit OSPF interface-policy           |
| WORD             | OSPF Template Policy name (Max Size 64) |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# ip ospf inherit interface-policy <WORD>
```

**ip ospf inherit interface-policy <WORD>**

**Description:** Inherit OSPF Template Policy under this VRF

**Syntax:**

|                  |   |
|------------------|---|
| interface-policy | Inherit OSPF interface-policy           |
| WORD             | OSPF Template Policy name (Max Size 64) |

**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)# ip ospf inherit interface-policy <WORD>
```

**ip ospf inherit interface-policy <WORD>**

**Description:** Inherit OSPF Template Policy under this VRF

**Syntax:**

|                  |   |
|------------------|---|
| interface-policy | Inherit OSPF interface-policy           |
| WORD             | OSPF Template Policy name (Max Size 64) |

**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)# ip ospf inherit interface-policy <WORD>
```

# ip ospf mtu-ignore

## ip ospf mtu-ignore

**Description:** Set OSPF Interface Policy Controls

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

**Command Path:**

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

## ip ospf mtu-ignore

**Description:** Set OSPF Interface Policy Controls

**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)# ip ospf mtu-ignore
```

## ip ospf mtu-ignore

**Description:** Set OSPF Interface Policy Controls

**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)# ip ospf mtu-ignore
```

## ip ospf mtu-ignore

**Description:** Set OSPF Interface Policy Controls

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

**Command Path:**

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

**ip ospf mtu-ignore**

**Description:** Set OSPF Interface Policy Controls

**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)# ip ospf mtu-ignore
```

**ip ospf mtu-ignore**

**Description:** Set OSPF Interface Policy Controls

**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)# ip ospf mtu-ignore
```



# ip ospf network

## ip ospf network bcast|p2p|unspecified

**Description:** Set OSPF interface policy network type

**Syntax:**

|                    |   |
|--------------------|---|
| <i>bcast</i>       | The OSPF interface policy network type. OSPF supports point-to-point and broadcast. |
| <i>p2p</i>         | The OSPF interface policy network type. OSPF supports point-to-point and broadcast. |
| <i>unspecified</i> | The OSPF interface policy network type. OSPF supports point-to-point and broadcast. |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# ip ospf network bcast|p2p|unspecified
```

## ip ospf network bcast|p2p|unspecified

**Description:** Set OSPF interface policy network type

**Syntax:**

|                    |   |
|--------------------|---|
| <i>bcast</i>       | The OSPF interface policy network type. OSPF supports point-to-point and broadcast. |
| <i>p2p</i>         | The OSPF interface policy network type. OSPF supports point-to-point and broadcast. |
| <i>unspecified</i> | The OSPF interface policy network type. OSPF supports point-to-point and broadcast. |

**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)# ip ospf network bcast|p2p|unspecified
```

## ip ospf network bcast|p2p|unspecified

**Description:** Set OSPF interface policy network type

**Syntax:**

|                    |   |
|--------------------|---|
| <i>bcast</i>       | The OSPF interface policy network type. OSPF supports point-to-point and broadcast. |
| <i>p2p</i>         | The OSPF interface policy network type. OSPF supports point-to-point and broadcast. |
| <i>unspecified</i> | The OSPF interface policy network type. OSPF supports point-to-point and broadcast. |

**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)# ip ospf network bcast|p2p|unspecified
```

**ip ospf network bcast|p2p|unspecified**

**Description:** Set OSPF interface policy network type

**Syntax:**

|                    |   |
|--------------------|---|
| <i>bcast</i>       | The OSPF interface policy network type. OSPF supports point-to-point and broadcast. |
| <i>p2p</i>         | The OSPF interface policy network type. OSPF supports point-to-point and broadcast. |
| <i>unspecified</i> | The OSPF interface policy network type. OSPF supports point-to-point and broadcast. |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# ip ospf network bcast|p2p|unspecified
```

**ip ospf network bcast|p2p|unspecified**

**Description:** Set OSPF interface policy network type

**Syntax:**

|              |   |
|--------------|---|
| <i>bcast</i> | The OSPF interface policy network type. OSPF supports point-to-point and broadcast. |
| <i>p2p</i>   | The OSPF interface policy network type. OSPF supports point-to-point and broadcast. |

|                    |   |
|--------------------|---|
| <i>unspecified</i> | The OSPF interface policy network type. OSPF supports point-to-point and broadcast. |
|--------------------|---|

**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)# ip ospf network bcast|p2p|unspecified
```

**ip ospf network bcast|p2p|unspecified**

**Description:** Set OSPF interface policy network type

**Syntax:**

|                    |   |
|--------------------|---|
| <i>bcast</i>       | The OSPF interface policy network type. OSPF supports point-to-point and broadcast. |
| <i>p2p</i>         | The OSPF interface policy network type. OSPF supports point-to-point and broadcast. |
| <i>unspecified</i> | The OSPF interface policy network type. OSPF supports point-to-point and broadcast. |

**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)# ip ospf network bcast|p2p|unspecified
```

# ip ospf passive-interface

## ip ospf passive-interface

**Description:** Set OSPF Interface Policy Controls

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

**Command Path:**

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

## ip ospf passive-interface

**Description:** Set OSPF Interface Policy Controls

**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)# ip ospf passive-interface
```

## ip ospf passive-interface

**Description:** Set OSPF Interface Policy Controls

**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)# ip ospf passive-interface
```

## ip ospf passive-interface

**Description:** Set OSPF Interface Policy Controls

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

**Command Path:**

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

**ip ospf passive-interface**

**Description:** Set OSPF Interface Policy Controls

**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)# ip ospf passive-interface
```

**ip ospf passive-interface**

**Description:** Set OSPF Interface Policy Controls

**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)# ip ospf passive-interface
```

# ip ospf prefix-suppression

## ip ospf prefix-suppression disable|enable|inherit

**Description:** Set prefix suppression

**Syntax:**

|                |  |
|----------------|--|
| <i>disable</i> | The OSPF interface prefix suppression. |
| <i>enable</i>  | The OSPF interface prefix suppression. |
| <i>inherit</i> | The OSPF interface prefix suppression. |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# ip ospf prefix-suppression disable|enable|inherit
```

## ip ospf prefix-suppression disable|enable|inherit

**Description:** Set prefix suppression

**Syntax:**

|                |  |
|----------------|--|
| <i>disable</i> | The OSPF interface prefix suppression. |
| <i>enable</i>  | The OSPF interface prefix suppression. |
| <i>inherit</i> | The OSPF interface prefix suppression. |

**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)# ip ospf prefix-suppression disable|enable|inherit
```

## ip ospf prefix-suppression disable|enable|inherit

**Description:** Set prefix suppression

**Syntax:**

|                |  |
|----------------|--|
| <i>disable</i> | The OSPF interface prefix suppression. |
| <i>enable</i>  | The OSPF interface prefix suppression. |

|                |  |
|----------------|--|
| <i>inherit</i> | The OSPF interface prefix suppression. |
|----------------|--|

**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)# ip ospf prefix-suppression disable|enable|inherit
```

**ip ospf prefix-suppression disable|enable|inherit**

**Description:** Set prefix suppression

**Syntax:**

|                |  |
|----------------|--|
| <i>disable</i> | The OSPF interface prefix suppression. |
| <i>enable</i>  | The OSPF interface prefix suppression. |
| <i>inherit</i> | The OSPF interface prefix suppression. |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# ip ospf prefix-suppression disable|enable|inherit
```

**ip ospf prefix-suppression disable|enable|inherit**

**Description:** Set prefix suppression

**Syntax:**

|                |  |
|----------------|--|
| <i>disable</i> | The OSPF interface prefix suppression. |
| <i>enable</i>  | The OSPF interface prefix suppression. |
| <i>inherit</i> | The OSPF interface prefix suppression. |

**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)# ip ospf prefix-suppression disable|enable|inherit
```

**ip ospf prefix-suppression disable|enable|inherit****Description:** Set prefix suppression**Syntax:**

|                |  |
|----------------|--|
| <i>disable</i> | The OSPF interface prefix suppression. |
| <i>enable</i>  | The OSPF interface prefix suppression. |
| <i>inherit</i> | The OSPF interface prefix suppression. |

**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)# ip ospf prefix-suppression disable|enable|inherit
```



# ip ospf priority

## ip ospf priority <NUMBER>

**Description:** Set OSPF interface priority used to determine the designated router (DR) on a specific network

**Syntax:**

|         |   |
|---------|---|
| <0-255> | OSPF priority. Number range from=0 to=255 |
|---------|---|

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

**Command Path:**

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

## ip ospf priority <NUMBER>

**Description:** Set OSPF interface priority used to determine the designated router (DR) on a specific network

**Syntax:**

|         |   |
|---------|---|
| <0-255> | OSPF priority. Number range from=0 to=255 |
|---------|---|

**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)# ip ospf priority <NUMBER>
```

## ip ospf priority <NUMBER>

**Description:** Set OSPF interface priority used to determine the designated router (DR) on a specific network

**Syntax:**

|         |   |
|---------|---|
| <0-255> | OSPF priority. Number range from=0 to=255 |
|---------|---|

**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)# ip ospf priority <NUMBER>
```

**ip ospf priority <NUMBER>**

**Description:** Set OSPF interface priority used to determine the designated router (DR) on a specific network

**Syntax:**

|         |   |
|---------|---|
| <0-255> | OSPF priority. Number range from=0 to=255 |
|---------|---|

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

**Command Path:**

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

**ip ospf priority <NUMBER>**

**Description:** Set OSPF interface priority used to determine the designated router (DR) on a specific network

**Syntax:**

|         |   |
|---------|---|
| <0-255> | OSPF priority. Number range from=0 to=255 |
|---------|---|

**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)# ip ospf priority <NUMBER>
```

**ip ospf priority <NUMBER>**

**Description:** Set OSPF interface priority used to determine the designated router (DR) on a specific network

**Syntax:**

|         |   |
|---------|---|
| <0-255> | OSPF priority. Number range from=0 to=255 |
|---------|---|

**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)# ip ospf priority <NUMBER>
```

# ip ospf retransmit-interval

## ip ospf retransmit-interval <NUMBER>

**Description:** Set OSPF Policy Graceful Restart Timers

**Syntax:**

|           |   |
|-----------|---|
| <1-65535> | Interval in seconds. Number range from=1 to=65535 |
|-----------|---|

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

**Command Path:**

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

## ip ospf retransmit-interval <NUMBER>

**Description:** Set OSPF Policy Graceful Restart Timers

**Syntax:**

|           |   |
|-----------|---|
| <1-65535> | Interval in seconds. Number range from=1 to=65535 |
|-----------|---|

**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)# ip ospf retransmit-interval <NUMBER>
```

## ip ospf retransmit-interval <NUMBER>

**Description:** Set OSPF Policy Graceful Restart Timers

**Syntax:**

|           |   |
|-----------|---|
| <1-65535> | Interval in seconds. Number range from=1 to=65535 |
|-----------|---|

**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)# ip ospf retransmit-interval <NUMBER>
```

**ip ospf retransmit-interval <NUMBER>****Description:** Set OSPF Policy Graceful Restart Timers**Syntax:**

|           |   |
|-----------|---|
| <1-65535> | Interval in seconds. Number range from=1 to=65535 |
|-----------|---|

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

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

**ip ospf retransmit-interval <NUMBER>****Description:** Set OSPF Policy Graceful Restart Timers**Syntax:**

|           |   |
|-----------|---|
| <1-65535> | Interval in seconds. Number range from=1 to=65535 |
|-----------|---|

**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)# ip ospf retransmit-interval <NUMBER>
```

**ip ospf retransmit-interval <NUMBER>****Description:** Set OSPF Policy Graceful Restart Timers**Syntax:**

|           |   |
|-----------|---|
| <1-65535> | Interval in seconds. Number range from=1 to=65535 |
|-----------|---|

**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)# ip ospf retransmit-interval <NUMBER>
```

# ip ospf transmit-delay

## ip ospf transmit-delay <NUMBER>

**Description:** Set the delay time needed to send an LSA update packet.

**Syntax:**

|         |  |
|---------|--|
| <1-450> | Delay in seconds. Number range from=1 to=450 |
|---------|--|

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

**Command Path:**

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

## ip ospf transmit-delay <NUMBER>

**Description:** Set the delay time needed to send an LSA update packet.

**Syntax:**

|         |  |
|---------|--|
| <1-450> | Delay in seconds. Number range from=1 to=450 |
|---------|--|

**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)# ip ospf transmit-delay <NUMBER>
```

## ip ospf transmit-delay <NUMBER>

**Description:** Set the delay time needed to send an LSA update packet.

**Syntax:**

|         |  |
|---------|--|
| <1-450> | Delay in seconds. Number range from=1 to=450 |
|---------|--|

**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)# ip ospf transmit-delay <NUMBER>
```

**ip ospf transmit-delay <NUMBER>****Description:** Set the delay time needed to send an LSA update packet.**Syntax:**

|         |  |
|---------|--|
| <1-450> | Delay in seconds. Number range from=1 to=450 |
|---------|--|

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

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

**ip ospf transmit-delay <NUMBER>****Description:** Set the delay time needed to send an LSA update packet.**Syntax:**

|         |  |
|---------|--|
| <1-450> | Delay in seconds. Number range from=1 to=450 |
|---------|--|

**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)# ip ospf transmit-delay <NUMBER>
```

**ip ospf transmit-delay <NUMBER>****Description:** Set the delay time needed to send an LSA update packet.**Syntax:**

|         |  |
|---------|--|
| <1-450> | Delay in seconds. Number range from=1 to=450 |
|---------|--|

**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)# ip ospf transmit-delay <NUMBER>
```

# ip passive-interface

## ip passive-interface eigrp default

**Description:** Set the passive-interface flag

**Syntax:**

|         |                        |
|---------|------------------------|
| eigrp   | EIGRP                  |
| default | EIGRP default instance |

**Command Mode:** template eigrp interface-policy : Configure EIGRP Interface policy templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template eigrp interface-policy <WORD> tenant <WORD>
(config-template-eigrp-if-pol)# ip passive-interface eigrp default
```

## ip passive-interface eigrp default

**Description:** Set EIGRP passive-interface flag

**Syntax:**

|         |                        |
|---------|------------------------|
| eigrp   | EIGRP                  |
| default | EIGRP default instance |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# ip passive-interface eigrp default
```

## ip passive-interface eigrp default

**Description:** Set EIGRP passive-interface flag

**Syntax:**

|         |                        |
|---------|------------------------|
| eigrp   | EIGRP                  |
| default | EIGRP default instance |

**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)# ip passive-interface eigrp default
```

**ip passive-interface eigrp default**

**Description:** Set EIGRP passive-interface flag

**Syntax:**

|         |                        |
|---------|------------------------|
| eigrp   | EIGRP                  |
| default | EIGRP default instance |

**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)# ip passive-interface eigrp default
```

**ip passive-interface eigrp default**

**Description:** Set the passive-interface flag

**Syntax:**

|         |                        |
|---------|------------------------|
| eigrp   | EIGRP                  |
| default | EIGRP default instance |

**Command Mode:** template eigrp interface-policy : Configure EIGRP Interface policy templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# template eigrp interface-policy <WORD> tenant <WORD>
(config-template-eigrp-if-pol)# ip passive-interface eigrp default
```

**ip passive-interface eigrp default**

**Description:** Set EIGRP passive-interface flag

**Syntax:**

|         |                        |
|---------|------------------------|
| eigrp   | EIGRP                  |
| default | EIGRP default instance |

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



**Command Path:**

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

**ip passive-interface eigrp default**

**Description:** Set EIGRP passive-interface flag

**Syntax:**

|         |                        |
|---------|------------------------|
| eigrp   | EIGRP                  |
| default | EIGRP default instance |

**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)# ip passive-interface eigrp default
```

**ip passive-interface eigrp default**

**Description:** Set EIGRP passive-interface flag

**Syntax:**

|         |                        |
|---------|------------------------|
| eigrp   | EIGRP                  |
| default | EIGRP default instance |

**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)# ip passive-interface eigrp default
```

# ip pim

## ip pim

**Description:** Enable PIM

**Command Mode:** vrf : Configuration for vrf

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# vrf context <WORD>
(config-tenant-vrf)# ip pim
```

## ip pim

**Description:** Enable PIM

**Command Mode:** l3out : Configuration for L3Out

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# l3out <WORD>
(config-tenant-l3out)# ip pim
```

# ip pim auto-rp forward

## ip pim auto-rp forward listen

**Description:** Forward Auto-RP messages

**Syntax:**

|        |                            |
|--------|----------------------------|
| listen | Listen to Auto-RP messages |
|--------|----------------------------|

**Command Mode:** vrf : Configuration for vrf

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# vrf context <WORD>
(config-tenant-vrf)# ip pim auto-rp forward listen
```

# ip pim auto-rp listen

## ip pim auto-rp listen forward

**Description:** Listen to Auto-RP messages

**Syntax:**

|         |                          |
|---------|--------------------------|
| forward | Forward Auto-RP messages |
|---------|--------------------------|

**Command Mode:** vrf : Configuration for vrf

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# vrf context <WORD>
(config-tenant-vrf)# ip pim auto-rp listen forward
```

# ip pim auto-rp mapping-agent-policy

**ip pim auto-rp mapping-agent-policy <WORD>**

**Description:** Associate route-map policy for filtering Mapping Agent messages

**Syntax:**

|             |                |
|-------------|----------------|
| <i>WORD</i> | Route-map name |
|-------------|----------------|

**Command Mode:** vrf : Configuration for vrf

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# vrf context <WORD>
(config-tenant-vrf)# ip pim auto-rp mapping-agent-policy <WORD>
```

# ip pim border

## ip pim border

**Description:** Configures interface to be a boundary of a PIM domain

### Syntax:

|     |     |
|-----|-----|
| pim | pim |
|-----|-----|

**Command Mode:** template ip pim interface-policy : Create a PIM interface policy

### Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template ip pim interface-policy <WORD>
(config-tenant-template-ip-pim)# ip pim border
```

## ip pim border

**Description:** Configures interface to be a boundary of a PIM domain

**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)# ip pim border
```

## ip pim border

**Description:** Configures interface to be a boundary of a PIM domain

**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)# ip pim border
```

## ip pim border

**Description:** Configures interface to be a boundary of a PIM domain

**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)# ip pim border
```

### **ip pim border**

**Description:** Configures interface to be a boundary of a PIM domain

**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)# ip pim border
```

## ip pim bsr bsr-policy

**ip pim bsr bsr-policy <WORD>**

**Description:** Associate route-map policy for filtering BSR messages

**Syntax:**

|             |                |
|-------------|----------------|
| <i>WORD</i> | Route-map name |
|-------------|----------------|

**Command Mode:** vrf : Configuration for vrf

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# vrf context <WORD>
(config-tenant-vrf)# ip pim bsr bsr-policy <WORD>
```



# ip pim bsr forward

## ip pim bsr forward listen

**Description:** Forward Bootstrap/Candidate-RP messages

**Syntax:**

|        |   |
|--------|---|
| listen | Listen to Bootstrap/Candidate-RP messages |
|--------|---|

**Command Mode:** vrf : Configuration for vrf

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# vrf context <WORD>
(config-tenant-vrf)# ip pim bsr forward listen
```

# ip pim bsr listen

## ip pim bsr listen forward

**Description:** Listen to Bootstrap/Candidate-RP messages

**Syntax:**

|         |   |
|---------|---|
| forward | Forward Bootstrap/Candidate-RP messages |
|---------|---|

**Command Mode:** vrf : Configuration for vrf

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# vrf context <WORD>
(config-tenant-vrf)# ip pim bsr listen forward
```

# ip pim dr-delay

## ip pim dr-delay <NUMBER>

**Description:** Configures delay for PIM DR election on interface

**Syntax:**

|           |   |
|-----------|---|
| pim       | pim   |
| <1-65535> | DR Delay Value in seconds. Number range from=1 to=65535 |

**Command Mode:** template ip pim interface-policy : Create a PIM interface policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template ip pim interface-policy <WORD>
(config-tenant-template-ip-pim)# ip pim dr-delay <NUMBER>
```

## ip pim dr-delay <NUMBER>

**Description:** Configures delay for PIM DR election on interface

**Syntax:**

|           |   |
|-----------|---|
| <1-65535> | DR Delay Value in seconds. Number range from=1 to=65535 |
|-----------|---|

**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)# ip pim dr-delay <NUMBER>
```

## ip pim dr-delay <NUMBER>

**Description:** Configures delay for PIM DR election on interface

**Syntax:**

|           |   |
|-----------|---|
| <1-65535> | DR Delay Value in seconds. Number range from=1 to=65535 |
|-----------|---|

**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)# ip pim dr-delay <NUMBER>
```

### ip pim dr-delay <NUMBER>

**Description:** Configures delay for PIM DR election on interface

**Syntax:**

|           |   |
|-----------|---|
| <1-65535> | DR Delay Value in seconds. Number range from=1 to=65535 |
|-----------|---|

**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)# ip pim dr-delay <NUMBER>
```

### ip pim dr-delay <NUMBER>

**Description:** Configures delay for PIM DR election on interface

**Syntax:**

|           |   |
|-----------|---|
| <1-65535> | DR Delay Value in seconds. Number range from=1 to=65535 |
|-----------|---|

**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)# ip pim dr-delay <NUMBER>
```

# ip pim dr-priority

## ip pim dr-priority <NUMBER>

**Description:** Configures priority for PIM DR election on interface

**Syntax:**

|                |  |
|----------------|--|
| pim            | pim  |
| <1-4294967295> | DR priority. Number range from=1 to=4294967295 |

**Command Mode:** template ip pim interface-policy : Create a PIM interface policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template ip pim interface-policy <WORD>
(config-tenant-template-ip-pim)# ip pim dr-priority <NUMBER>
```

## ip pim dr-priority <NUMBER>

**Description:** Configures priority for PIM DR election on interface

**Syntax:**

|                |  |
|----------------|--|
| <1-4294967295> | DR priority. Number range from=1 to=4294967295 |
|----------------|--|

**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)# ip pim dr-priority <NUMBER>
```

## ip pim dr-priority <NUMBER>

**Description:** Configures priority for PIM DR election on interface

**Syntax:**

|                |  |
|----------------|--|
| <1-4294967295> | DR priority. Number range from=1 to=4294967295 |
|----------------|--|

**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)# ip pim dr-priority <NUMBER>
```

### ip pim dr-priority <NUMBER>

**Description:** Configures priority for PIM DR election on interface

**Syntax:**

|                |  |
|----------------|--|
| <1-4294967295> | DR priority. Number range from=1 to=4294967295 |
|----------------|--|

**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)# ip pim dr-priority <NUMBER>
```

### ip pim dr-priority <NUMBER>

**Description:** Configures priority for PIM DR election on interface

**Syntax:**

|                |  |
|----------------|--|
| <1-4294967295> | DR priority. Number range from=1 to=4294967295 |
|----------------|--|

**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)# ip pim dr-priority <NUMBER>
```

# ip pim fabric-rp-address

**ip pim fabric-rp-address** <A.B.C.D> [route-map <WORD>]

**Description:** Configure fabric RP for group range

**Syntax:**

|                |                              |
|----------------|------------------------------|
| <i>A.B.C.D</i> | IP address in format A.B.C.D |
| <i>WORD</i>    | (Optional) route-map name    |

**Command Mode:** vrf : Configuration for vrf

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# vrf context <WORD>
(config-tenant-vrf)# ip pim fabric-rp-address <A.B.C.D> [route-map <WORD>]
```

# ip pim fast-convergence

## ip pim fast-convergence

**Description:** Set PIM fast convergence

**Command Mode:** vrf : Configuration for vrf

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# vrf context <WORD>
(config-tenant-vrf)# ip pim fast-convergence
```



# ip pim hello-authentication

## ip pim hello-authentication ah-md5 <WORD>

**Description:** Add AH header option to Hellos

**Syntax:**

|             |                              |
|-------------|------------------------------|
| pim         | pim                          |
| ah-md5      | MD5 authentication           |
| <i>WORD</i> | PIM hello authentication key |

**Command Mode:** template ip pim interface-policy : Create a PIM interface policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template ip pim interface-policy <WORD>
(config-tenant-template-ip-pim)# ip pim hello-authentication ah-md5 <WORD>
```

## ip pim hello-authentication ah-md5 <WORD>

**Description:** Add AH header option to Hellos

**Syntax:**

|             |                              |
|-------------|------------------------------|
| ah-md5      | MD5 authentication           |
| <i>WORD</i> | PIM hello authentication key |

**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)# ip pim hello-authentication ah-md5 <WORD>
```

## ip pim hello-authentication ah-md5 <WORD>

**Description:** Add AH header option to Hellos

**Syntax:**

|             |                              |
|-------------|------------------------------|
| ah-md5      | MD5 authentication           |
| <i>WORD</i> | PIM hello authentication key |

**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)# ip pim hello-authentication ah-md5 <WORD>
```

**ip pim hello-authentication ah-md5 <WORD>**

**Description:** Add AH header option to Hellos

**Syntax:**

|             |                              |
|-------------|------------------------------|
| ah-md5      | MD5 authentication           |
| <i>WORD</i> | PIM hello authentication key |

**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)# ip pim hello-authentication ah-md5 <WORD>
```

**ip pim hello-authentication ah-md5 <WORD>**

**Description:** Add AH header option to Hellos

**Syntax:**

|             |                              |
|-------------|------------------------------|
| ah-md5      | MD5 authentication           |
| <i>WORD</i> | PIM hello authentication key |

**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)# ip pim hello-authentication ah-md5 <WORD>
```

# ip pim hello-interval

## ip pim hello-interval <NUMBER>

**Description:** Configures the Hello interval for the interface

**Syntax:**

|              |   |
|--------------|---|
| pim          | pim   |
| <1-18724286> | Hello Interval Value. Number range from=1 to=18724286 |

**Command Mode:** template ip pim interface-policy : Create a PIM interface policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template ip pim interface-policy <WORD>
(config-tenant-template-ip-pim)# ip pim hello-interval <NUMBER>
```

## ip pim hello-interval <NUMBER>

**Description:** Configures the Hello interval for the interface

**Syntax:**

|           |  |
|-----------|--|
| <1-65535> | Hello Interval Value in milliseconds. Number range from=1 to=65535 |
|-----------|--|

**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)# ip pim hello-interval <NUMBER>
```

## ip pim hello-interval <NUMBER>

**Description:** Configures the Hello interval for the interface

**Syntax:**

|           |  |
|-----------|--|
| <1-65535> | Hello Interval Value in milliseconds. Number range from=1 to=65535 |
|-----------|--|

**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)# ip pim hello-interval <NUMBER>
```

### ip pim hello-interval <NUMBER>

**Description:** Configures the Hello interval for the interface

**Syntax:**

|           |  |
|-----------|--|
| <1-65535> | Hello Interval Value in milliseconds. Number range from=1 to=65535 |
|-----------|--|

**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)# ip pim hello-interval <NUMBER>
```

### ip pim hello-interval <NUMBER>

**Description:** Configures the Hello interval for the interface

**Syntax:**

|           |  |
|-----------|--|
| <1-65535> | Hello Interval Value in milliseconds. Number range from=1 to=65535 |
|-----------|--|

**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)# ip pim hello-interval <NUMBER>
```

# ip pim inherit

## ip pim inherit interface-policy <WORD> [tenant <WORD>]

**Description:** Associate a PIM interface policy to this interface

**Syntax:**

|                  |   |
|------------------|---|
| interface-policy | interface-policy                          |
| WORD             | PIM interface policy name (Max Size 64)   |
| WORD             | (Optional) Tenant where policy is defined |

**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)# ip pim inherit interface-policy <WORD> [tenant <WORD>]
```

## ip pim inherit interface-policy <WORD> [tenant <WORD>]

**Description:** Associate a PIM interface policy to this interface

**Syntax:**

|                  |   |
|------------------|---|
| interface-policy | interface-policy                          |
| WORD             | PIM interface policy name (Max Size 64)   |
| WORD             | (Optional) Tenant where policy is defined |

**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)# ip pim inherit interface-policy <WORD> [tenant <WORD>]
```

## ip pim inherit interface-policy <WORD> [tenant <WORD>]

**Description:** Associate a PIM interface policy to this interface

**Syntax:**

|                  |   |
|------------------|---|
| interface-policy | interface-policy                        |
| WORD             | PIM interface policy name (Max Size 64) |

|             |   |
|-------------|---|
| <i>WORD</i> | (Optional) Tenant where policy is defined |
|-------------|---|

**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)# ip pim inherit interface-policy <WORD> [tenant <WORD>]
```

### **ip pim inherit interface-policy <WORD> [tenant <WORD>]**

**Description:** Associate a PIM interface policy to this interface

**Syntax:**

|                  |   |
|------------------|---|
| interface-policy | interface-policy                          |
| <i>WORD</i>      | PIM interface policy name (Max Size 64)   |
| <i>WORD</i>      | (Optional) Tenant where policy is defined |

**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)# ip pim inherit interface-policy <WORD> [tenant <WORD>]
```

## ip pim inter-vrf-src

**ip pim inter-vrf-src** <WORD> <WORD> [route-map <WORD>]

**Description:** Configure intervrf leaking for group range

**Syntax:**

|      |                           |
|------|---------------------------|
| WORD | Tenant name (Max Size 63) |
| WORD | VRF name (Max Size 64)    |
| WORD | (Optional) route-map name |

**Command Mode:** vrf : Configuration for vrf

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# vrf context <WORD>
(config-tenant-vrf)# ip pim inter-vrf-src <WORD> <WORD> [route-map <WORD>]
```

# ip pim jp-interval

## ip pim jp-interval <NUMBER>

**Description:** Configures the Join-Prune interval for the interface

**Syntax:**

|            |  |
|------------|--|
| pim        | pim  |
| <60-65520> | JP Interval Value. Number range from=60 to=65520 |

**Command Mode:** template ip pim interface-policy : Create a PIM interface policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template ip pim interface-policy <WORD>
(config-tenant-template-ip-pim)# ip pim jp-interval <NUMBER>
```

## ip pim jp-interval <NUMBER>

**Description:** Configures the Join-Prune interval for the interface

**Syntax:**

|            |  |
|------------|--|
| <60-65520> | JP Interval Value. Number range from=60 to=65520 |
|------------|--|

**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)# ip pim jp-interval <NUMBER>
```

## ip pim jp-interval <NUMBER>

**Description:** Configures the Join-Prune interval for the interface

**Syntax:**

|            |  |
|------------|--|
| <60-65520> | JP Interval Value. Number range from=60 to=65520 |
|------------|--|

**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)# ip pim jp-interval <NUMBER>
```

### ip pim jp-interval <NUMBER>

**Description:** Configures the Join-Prune interval for the interface

**Syntax:**

|            |  |
|------------|--|
| <60-65520> | JP Interval Value. Number range from=60 to=65520 |
|------------|--|

**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)# ip pim jp-interval <NUMBER>
```

### ip pim jp-interval <NUMBER>

**Description:** Configures the Join-Prune interval for the interface

**Syntax:**

|            |  |
|------------|--|
| <60-65520> | JP Interval Value. Number range from=60 to=65520 |
|------------|--|

**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)# ip pim jp-interval <NUMBER>
```

# ip pim jp-policy

## ip pim jp-policy <WORD> in|out

**Description:** Specify policy for receiving Join-Prune messages

**Syntax:**

|             |                |
|-------------|----------------|
| pim         | pim            |
| <i>WORD</i> | Route-map name |
| in          | in             |
| out         | out            |

**Command Mode:** template ip pim interface-policy : Create a PIM interface policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template ip pim interface-policy <WORD>
(config-tenant-template-ip-pim)# ip pim jp-policy <WORD> in|out
```

## ip pim jp-policy <WORD> in|out

**Description:** Specify policy for receiving Join-Prune messages

**Syntax:**

|             |                |
|-------------|----------------|
| <i>WORD</i> | Route-map name |
| in          | in             |
| out         | out            |

**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)# ip pim jp-policy <WORD> in|out
```

## ip pim jp-policy <WORD> in|out

**Description:** Specify policy for receiving Join-Prune messages

**Syntax:**

|             |                |
|-------------|----------------|
| <i>WORD</i> | Route-map name |
|-------------|----------------|

|     |     |
|-----|-----|
| in  | in  |
| out | out |

**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)# ip pim jp-policy <WORD> in|out
```

**ip pim jp-policy <WORD> in|out**

**Description:** Specify policy for receiving Join-Prune messages

**Syntax:**

| <i>WORD</i> | Route-map name |
|-------------|----------------|
| in          | in             |
| out         | out            |

**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)# ip pim jp-policy <WORD> in|out
```

**ip pim jp-policy <WORD> in|out**

**Description:** Specify policy for receiving Join-Prune messages

**Syntax:**

| <i>WORD</i> | Route-map name |
|-------------|----------------|
| in          | in             |
| out         | out            |

**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)# ip pim jp-policy <WORD> in|out
```

## ip pim mtu

**ip pim mtu** <NUMBER>

**Description:** Set PIM MTU size

**Syntax:**

|              |  |
|--------------|--|
| <1500-65536> | MTU size in bytes. Number range from=1500 to=65536 |
|--------------|--|

**Command Mode:** vrf : Configuration for vrf

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# vrf context <WORD>
(config-tenant-vrf)# ip pim mtu <NUMBER>
```

# ip pim neighbor-policy

## ip pim neighbor-policy <WORD>

**Description:** Configures a neighbor policy for filtering adjacencies

**Syntax:**

|      |                |
|------|----------------|
| pim  | pim            |
| WORD | Route-map name |

**Command Mode:** template ip pim interface-policy : Create a PIM interface policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template ip pim interface-policy <WORD>
(config-tenant-template-ip-pim)# ip pim neighbor-policy <WORD>
```

## ip pim neighbor-policy <WORD>

**Description:** Configures a neighbor policy for filtering adjacencies

**Syntax:**

|      |                |
|------|----------------|
| WORD | Route-map name |
|------|----------------|

**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)# ip pim neighbor-policy <WORD>
```

## ip pim neighbor-policy <WORD>

**Description:** Configures a neighbor policy for filtering adjacencies

**Syntax:**

|      |                |
|------|----------------|
| WORD | Route-map name |
|------|----------------|

**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)# ip pim neighbor-policy <WORD>
```

### ip pim neighbor-policy <WORD>

**Description:** Configures a neighbor policy for filtering adjacencies

**Syntax:**

|             |                |
|-------------|----------------|
| <i>WORD</i> | Route-map name |
|-------------|----------------|

**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)# ip pim neighbor-policy <WORD>
```

### ip pim neighbor-policy <WORD>

**Description:** Configures a neighbor policy for filtering adjacencies

**Syntax:**

|             |                |
|-------------|----------------|
| <i>WORD</i> | Route-map name |
|-------------|----------------|

**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)# ip pim neighbor-policy <WORD>
```

# ip pim passive

## ip pim passive

**Description:** Configures interface to be a passive interface

**Syntax:**

|     |     |
|-----|-----|
| pim | pim |
|-----|-----|

**Command Mode:** template ip pim interface-policy : Create a PIM interface policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template ip pim interface-policy <WORD>
(config-tenant-template-ip-pim)# ip pim passive
```

## ip pim passive

**Description:** Configures interface to be a passive interface

**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)# ip pim passive
```

## ip pim passive

**Description:** Configures interface to be a passive interface

**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)# ip pim passive
```

## ip pim passive

**Description:** Configures interface to be a passive interface

**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)# ip pim passive
```

### ip pim passive

**Description:** Configures interface to be a passive interface

**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)# ip pim passive
```



# ip pim register-rate-limit

**ip pim register-rate-limit** <NUMBER>

**Description:** Rate limit for PIM data registers

**Syntax:**

|           |  |
|-----------|--|
| <1-65535> | Max number of packets per second. Number range from=1 to=65535 |
|-----------|--|

**Command Mode:** vrf : Configuration for vrf

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# vrf context <WORD>
(config-tenant-vrf)# ip pim register-rate-limit <NUMBER>
```

## ip pim register-source

**ip pim register-source <A.B.C.D>**

**Description:** Configure source address for Register messages

**Syntax:**

|                |                                     |
|----------------|-------------------------------------|
| <i>A.B.C.D</i> | Source IP address in format A.B.C.D |
|----------------|-------------------------------------|

**Command Mode:** vrf : Configuration for vrf

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# vrf context <WORD>
(config-tenant-vrf)# ip pim register-source <A.B.C.D>
```

# ip pim rp-address

**ip pim rp-address** <A.B.C.D> [route-map <WORD>]

**Description:** Configure static RP for group range

**Syntax:**

|                |                              |
|----------------|------------------------------|
| <i>A.B.C.D</i> | IP address in format A.B.C.D |
| <i>WORD</i>    | (Optional) route-map name    |

**Command Mode:** vrf : Configuration for vrf

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# vrf context <WORD>
(config-tenant-vrf)# ip pim rp-address <A.B.C.D> [route-map <WORD>]
```

# ip pim sg-expiry-timer

**ip pim sg-expiry-timer** <NUMBER> [sg-list <WORD>]

**Description:** Adjust expiry time for PIM ASM (S,G) routes

**Syntax:**

|              |   |
|--------------|---|
| <180-604801> | Expiry timer interval in seconds. Number range from=180 to=604801 |
| WORD         | (Optional) Route-map name   |

**Command Mode:** vrf : Configuration for vrf

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# vrf context <WORD>
(config-tenant-vrf)# ip pim sg-expiry-timer <NUMBER> [sg-list <WORD>]
```

# ip pim sparse

## ip pim sparse

**Description:** Enable PIM on this interface

**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)# ip pim sparse
```

## ip pim sparse

**Description:** Enable PIM on this interface

**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)# ip pim sparse
```

## ip pim sparse

**Description:** Enable PIM on this interface

**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)# ip pim sparse
```

## ip pim sparse

**Description:** Enable PIM on this interface

**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)# ip pim sparse
```

## ip pim ssm route-map

**ip pim ssm route-map** <WORD>

**Description:** Associate route-map policy for SSM range

**Syntax:**

|             |                |
|-------------|----------------|
| <i>WORD</i> | Route-map name |
|-------------|----------------|

**Command Mode:** vrf : Configuration for vrf

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# vrf context <WORD>
(config-tenant-vrf)# ip pim ssm route-map <WORD>
```

# ip pim state-limit

**ip pim state-limit <NUMBER>**

**Description:** Configure maximum state entries

**Syntax:**

|                |  |
|----------------|--|
| <1-4294967295> | Maximum state entries. Number range from=1 to=4294967295 |
|----------------|--|

**Command Mode:** vrf : Configuration for vrf

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# vrf context <WORD>
(config-tenant-vrf)# ip pim state-limit <NUMBER>
```

# ip pim state-limit reserved

**ip pim state-limit** <NUMBER> reserved <WORD> <NUMBER>

**Description:** Configure maximum state entries

**Syntax:**

|                |  |
|----------------|--|
| <1-4294967295> | Maximum state entries. Number range from=1 to=4294967295         |
| WORD           | route-map name   |
| <0-4294967295> | Maximum reserve state entries. Number range from=0 to=4294967295 |

**Command Mode:** vrf : Configuration for vrf

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# vrf context <WORD>
(config-tenant-vrf)# ip pim state-limit <NUMBER> reserved <WORD> <NUMBER>
```



# ip pim strict-rfc-compliant

## ip pim strict-rfc-compliant

**Description:** Set PIM RFC Compliant

**Command Mode:** vrf : Configuration for vrf

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# vrf context <WORD>
(config-tenant-vrf)# ip pim strict-rfc-compliant
```

## ip pim strict-rfc-compliant

**Description:** Set PIM RFC Compliant

**Syntax:**

|     |     |
|-----|-----|
| pim | pim |
|-----|-----|

**Command Mode:** template ip pim interface-policy : Create a PIM interface policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template ip pim interface-policy <WORD>
(config-tenant-template-ip-pim)# ip pim strict-rfc-compliant
```

## ip pim strict-rfc-compliant

**Description:** Set PIM RFC Compliant

**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)# ip pim strict-rfc-compliant
```

## ip pim strict-rfc-compliant

**Description:** Set PIM RFC Compliant

**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)# ip pim strict-rfc-compliant
```

### ip pim strict-rfc-compliant

**Description:** Set PIM RFC Compliant

**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)# ip pim strict-rfc-compliant
```

### ip pim strict-rfc-compliant

**Description:** Set PIM RFC Compliant

**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)# ip pim strict-rfc-compliant
```

# ip pim use-shared-tree-only

**ip pim use-shared-tree-only group-list <WORD>**

**Description:** Use (\*,G) only state, no source state is created

**Syntax:**

|             |                |
|-------------|----------------|
| group-list  | group list     |
| <i>WORD</i> | Route-map name |

**Command Mode:** vrf : Configuration for vrf

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# vrf context <WORD>
(config-tenant-vrf)# ip pim use-shared-tree-only group-list <WORD>
```

# ip prefix-list

**ip prefix-list <WORD> permit <A.B.C.D/LEN | A:B::C:D/LEN>**

**Description:** Build a prefix-list

**Syntax:**

|                                   |   |
|-----------------------------------|---|
| <i>WORD</i>                       | Name of prefix-list (Max Size 64)                       |
| permit                            | Specify routes to forward                               |
| <i>A.B.C.D/LEN   A:B::C:D/LEN</i> | IP prefix network/length, e.g., 35.0.0.0/8 or 2001::/64 |

**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)# ip prefix-list <WORD> permit <A.B.C.D/LEN | A:B::C:D/LEN>
```

**ip prefix-list <WORD> permit <A.B.C.D/LEN | A:B::C:D/LEN>**

**Description:** Build a prefix-list

**Syntax:**

|                                   |   |
|-----------------------------------|---|
| <i>WORD</i>                       | Name of prefix-list (Max Size 64)                       |
| permit                            | Specify routes to forward                               |
| <i>A.B.C.D/LEN   A:B::C:D/LEN</i> | IP prefix network/length, e.g., 35.0.0.0/8 or 2001::/64 |

**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)# ip prefix-list <WORD> permit <A.B.C.D/LEN | A:B::C:D/LEN>
```

# ip prefix-list permit le

**ip prefix-list <WORD> permit <A.B.C.D/LEN | A:B::C:D/LEN> le <32>**

**Description:** Maximum prefix length to be matched

**Syntax:**

|                                   |   |
|-----------------------------------|---|
| <i>WORD</i>                       | Name of prefix-list (Max Size 64)                       |
| permit                            | Specify routes to forward                               |
| <i>A.B.C.D/LEN   A:B::C:D/LEN</i> | IP prefix network/length, e.g., 35.0.0.0/8 or 2001::/64 |
| 32                                | Maximum prefix length                                   |

**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)# ip prefix-list <WORD> permit <A.B.C.D/LEN | A:B::C:D/LEN> le <32>
```

**ip prefix-list <WORD> permit <A.B.C.D/LEN | A:B::C:D/LEN> le <32>**

**Description:** Maximum prefix length to be matched

**Syntax:**

|                                   |   |
|-----------------------------------|---|
| <i>WORD</i>                       | Name of prefix-list (Max Size 64)                       |
| permit                            | Specify routes to forward                               |
| <i>A.B.C.D/LEN   A:B::C:D/LEN</i> | IP prefix network/length, e.g., 35.0.0.0/8 or 2001::/64 |
| 32                                | Maximum prefix length                                   |

**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)# ip prefix-list <WORD> permit <A.B.C.D/LEN | A:B::C:D/LEN> le <32>
```

# ip prefix

**ip prefix permit <A.B.C.D/LEN | A:B::C:D/LEN>**

**Description:** IP prefix for route match

**Syntax:**

|                                   |   |
|-----------------------------------|---|
| permit                            | Specify routes to forward                               |
| <i>A.B.C.D/LEN   A:B::C:D/LEN</i> | IP prefix network/length, e.g., 35.0.0.0/8 or 2001::/64 |

**Command Mode:** template route group : Configure Route Group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template route group <WORD> tenant <WORD>
(config-route-group)# ip prefix permit <A.B.C.D/LEN | A:B::C:D/LEN>
```

**ip prefix permit <A.B.C.D/LEN | A:B::C:D/LEN>**

**Description:** IP prefix for route match

**Syntax:**

|                                   |   |
|-----------------------------------|---|
| permit                            | Specify routes to forward                               |
| <i>A.B.C.D/LEN   A:B::C:D/LEN</i> | IP prefix network/length, e.g., 35.0.0.0/8 or 2001::/64 |

**Command Mode:** template route group : Configure Route Group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# template route group <WORD> tenant <WORD>
(config-route-group)# ip prefix permit <A.B.C.D/LEN | A:B::C:D/LEN>
```

# ip prefix permit le

**ip prefix permit <A.B.C.D/LEN | A:B::C:D/LEN> le <32>**

**Description:** Maximum prefix length to be matched

**Syntax:**

|                                   |   |
|-----------------------------------|---|
| permit                            | Specify routes to forward                               |
| <i>A.B.C.D/LEN   A:B::C:D/LEN</i> | IP prefix network/length, e.g., 35.0.0.0/8 or 2001::/64 |
| 32                                | Maximum prefix length                                   |

**Command Mode:** template route group : Configure Route Group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template route group <WORD> tenant <WORD>
(config-route-group)# ip prefix permit <A.B.C.D/LEN | A:B::C:D/LEN> le <32>
```

**ip prefix permit <A.B.C.D/LEN | A:B::C:D/LEN> le <32>**

**Description:** Maximum prefix length to be matched

**Syntax:**

|                                   |   |
|-----------------------------------|---|
| permit                            | Specify routes to forward                               |
| <i>A.B.C.D/LEN   A:B::C:D/LEN</i> | IP prefix network/length, e.g., 35.0.0.0/8 or 2001::/64 |
| 32                                | Maximum prefix length                                   |

**Command Mode:** template route group : Configure Route Group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# template route group <WORD> tenant <WORD>
(config-route-group)# ip prefix permit <A.B.C.D/LEN | A:B::C:D/LEN> le <32>
```

# ip router eigrp

## ip router eigrp default

**Description:** Configure Router EIGRP Policies

**Syntax:**

|         |                        |
|---------|------------------------|
| default | EIGRP default instance |
|---------|------------------------|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# ip router eigrp default
```

## ip router eigrp default

**Description:** Configure EIGRP default interface

**Syntax:**

|         |                        |
|---------|------------------------|
| default | EIGRP default instance |
|---------|------------------------|

**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)# ip router eigrp default
```

## ip router eigrp default

**Description:** Configure EIGRP default interface

**Syntax:**

|         |                        |
|---------|------------------------|
| default | EIGRP default instance |
|---------|------------------------|

**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)# ip router eigrp default
```



**ip router eigrp default**

**Description:** Configure Router EIGRP Policies

**Syntax:**

|         |                        |
|---------|------------------------|
| default | EIGRP default instance |
|---------|------------------------|

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

**Command Path:**

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

**ip router eigrp default**

**Description:** Configure EIGRP default interface

**Syntax:**

|         |                        |
|---------|------------------------|
| default | EIGRP default instance |
|---------|------------------------|

**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)# ip router eigrp default
```

**ip router eigrp default**

**Description:** Configure EIGRP default interface

**Syntax:**

|         |                        |
|---------|------------------------|
| default | EIGRP default instance |
|---------|------------------------|

**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)# ip router eigrp default
```

# ip router ospf

## ip router ospf default|multipod-internal area <A.B.C.D|NUMBER>

**Description:** OSPF configuration commands

**Syntax:**

|                   |  |
|-------------------|--|
| default           | Process tag for default ospf and ospfv3  |
| multipod-internal | Process tag for multipod-internal ospf (used for forwarding traffic from local leaf across pod to remote leaf in remote pod) |
| area              | Area associated with interface   |
| A.B.C.D/NUMBER    | OSPF area Id   |

**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)# ip router ospf default|multipod-internal area <A.B.C.D|NUMBER>
```

## ip router ospf default|multipod-internal area <A.B.C.D|NUMBER>

**Description:** OSPF configuration commands

**Syntax:**

|                   |  |
|-------------------|--|
| default           | Process tag for default ospf and ospfv3  |
| multipod-internal | Process tag for multipod-internal ospf (used for forwarding traffic from local leaf across pod to remote leaf in remote pod) |
| area              | Area associated with interface   |
| A.B.C.D/NUMBER    | OSPF area Id   |

**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)# ip router ospf default|multipod-internal area <A.B.C.D|NUMBER>
```

## ip router ospf default|multipod-internal area <A.B.C.D|NUMBER>

**Description:** OSPF configuration commands

**Syntax:**

|                       |  |
|-----------------------|--|
| default               | Process tag for default ospf and ospfv3  |
| multipod-internal     | Process tag for multipod-internal ospf (used for forwarding traffic from local leaf across pod to remote leaf in remote pod) |
| area                  | Area associated with interface   |
| <i>A.B.C.D/NUMBER</i> | OSPF area Id   |

**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)# ip router ospf default|multipod-internal area <A.B.C.D|NUMBER>
```

**ip router ospf default|multipod-internal area <A.B.C.D|NUMBER>**

**Description:** OSPF configuration commands

**Syntax:**

|                       |  |
|-----------------------|--|
| default               | Process tag for default ospf and ospfv3  |
| multipod-internal     | Process tag for multipod-internal ospf (used for forwarding traffic from local leaf across pod to remote leaf in remote pod) |
| area                  | Area associated with interface   |
| <i>A.B.C.D/NUMBER</i> | OSPF area Id   |

**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)# ip router ospf default|multipod-internal area <A.B.C.D|NUMBER>
```

# ip router ospf default

**ip router ospf default area <A.B.C.D|NUMBER>**

**Description:** Process tag

**Syntax:**

|                       |                                |
|-----------------------|--------------------------------|
| area                  | Area associated with interface |
| <i>A.B.C.D NUMBER</i> | OSPF area Id                   |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# ip router ospf default area <A.B.C.D|NUMBER>
```

**ip router ospf default area <A.B.C.D|NUMBER>**

**Description:** Process tag

**Syntax:**

|                       |                                |
|-----------------------|--------------------------------|
| area                  | Area associated with interface |
| <i>A.B.C.D NUMBER</i> | OSPF area Id                   |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# ip router ospf default area <A.B.C.D|NUMBER>
```

# ip shared address consumer

**ip shared address <A.B.C.D/LEN> consumer application any epg any**

**Description:** Shared consumed service

**Syntax:**

|                    |   |
|--------------------|---|
| address            | IPv4 subnet   |
| <i>A.B.C.D/LEN</i> | IP prefix and network mask length in format x.x.x.x/m |
| application        | application keyword                                   |
| any                | any application                                       |
| epg                | epg keyword   |
| any                | any EPG   |

**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)# ip shared address <A.B.C.D/LEN> consumer application any epg any
```

## ip shared address provider

**ip shared address** <A.B.C.D/LEN> provider application <WORD> epg <WORD> [scope <scope>]

**Description:** Shared provider service

**Syntax:**

|                    |   |
|--------------------|---|
| address            | IPv4 subnet   |
| <i>A.B.C.D/LEN</i> | IP prefix and network mask length in format x.x.x.x/m |
| application        | application keyword                                   |
| <i>WORD</i>        | Application Name (Max Size 64)                        |
| epg                | epg keyword   |
| <i>WORD</i>        | Application EPG (Max Size 64)                         |
| <i>scope</i>       | (Optional) Scope of the address among ['public']      |

**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)# ip shared address <A.B.C.D/LEN> provider application <WORD> epg
<WORD> [scope <scope>]
```

# ip split-horizon

## ip split-horizon eigrp default

**Description:** Set the split-horizon flag

**Syntax:**

|         |                        |
|---------|------------------------|
| eigrp   | EIGRP                  |
| default | EIGRP default instance |

**Command Mode:** template eigrp interface-policy : Configure EIGRP Interface policy templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template eigrp interface-policy <WORD> tenant <WORD>
(config-template-eigrp-if-pol)# ip split-horizon eigrp default
```

## ip split-horizon eigrp default

**Description:** Set EIGRP split-horizon flag

**Syntax:**

|         |                        |
|---------|------------------------|
| eigrp   | EIGRP                  |
| default | EIGRP default instance |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# ip split-horizon eigrp default
```

## ip split-horizon eigrp default

**Description:** Set EIGRP split-horizon flag

**Syntax:**

|         |                        |
|---------|------------------------|
| eigrp   | EIGRP                  |
| default | EIGRP default instance |

**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)# ip split-horizon eigrp default
```

**ip split-horizon eigrp default**

**Description:** Set EIGRP split-horizon flag

**Syntax:**

|         |                        |
|---------|------------------------|
| eigrp   | EIGRP                  |
| default | EIGRP default instance |

**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)# ip split-horizon eigrp default
```

**ip split-horizon eigrp default**

**Description:** Set the split-horizon flag

**Syntax:**

|         |                        |
|---------|------------------------|
| eigrp   | EIGRP                  |
| default | EIGRP default instance |

**Command Mode:** template eigrp interface-policy : Configure EIGRP Interface policy templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# template eigrp interface-policy <WORD> tenant <WORD>
(config-template-eigrp-if-pol)# ip split-horizon eigrp default
```

**ip split-horizon eigrp default**

**Description:** Set EIGRP split-horizon flag

**Syntax:**

|         |                        |
|---------|------------------------|
| eigrp   | EIGRP                  |
| default | EIGRP default instance |

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



**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# ip split-horizon eigrp default
```

**ip split-horizon eigrp default**

**Description:** Set EIGRP split-horizon flag

**Syntax:**

|         |                        |
|---------|------------------------|
| eigrp   | EIGRP                  |
| default | EIGRP default instance |

**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)# ip split-horizon eigrp default
```

**ip split-horizon eigrp default**

**Description:** Set EIGRP split-horizon flag

**Syntax:**

|         |                        |
|---------|------------------------|
| eigrp   | EIGRP                  |
| default | EIGRP default instance |

**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)# ip split-horizon eigrp default
```

## ip summary-address eigrp

**ip summary-address eigrp default <IP-PREFIX/LEN>**

**Description:** Configure route summarization for EIGRP

**Syntax:**

|                      |  |
|----------------------|--|
| default              | EIGRP default instance                 |
| <i>IP-PREFIX/LEN</i> | Summary IPV4 address (e.g. 10.0.0.0/8) |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# ip summary-address eigrp default <IP-PREFIX/LEN>
```

**ip summary-address eigrp default <IP-PREFIX/LEN>**

**Description:** Configure route summarization for EIGRP

**Syntax:**

|                      |  |
|----------------------|--|
| default              | EIGRP default instance                 |
| <i>IP-PREFIX/LEN</i> | Summary IPV4 address (e.g. 10.0.0.0/8) |

**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)# ip summary-address eigrp default <IP-PREFIX/LEN>
```

**ip summary-address eigrp default <IP-PREFIX/LEN>**

**Description:** Configure route summarization for EIGRP

**Syntax:**

|                      |  |
|----------------------|--|
| default              | EIGRP default instance                 |
| <i>IP-PREFIX/LEN</i> | Summary IPV4 address (e.g. 10.0.0.0/8) |

**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)# ip summary-address eigrp default <IP-PREFIX/LEN>
```

**ip summary-address eigrp default <IP-PREFIX/LEN>**

**Description:** Configure route summarization for EIGRP

**Syntax:**

|                      |  |
|----------------------|--|
| default              | EIGRP default instance                 |
| <i>IP-PREFIX/LEN</i> | Summary IPV4 address (e.g. 10.0.0.0/8) |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# ip summary-address eigrp default <IP-PREFIX/LEN>
```

**ip summary-address eigrp default <IP-PREFIX/LEN>**

**Description:** Configure route summarization for EIGRP

**Syntax:**

|                      |  |
|----------------------|--|
| default              | EIGRP default instance                 |
| <i>IP-PREFIX/LEN</i> | Summary IPV4 address (e.g. 10.0.0.0/8) |

**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)# ip summary-address eigrp default <IP-PREFIX/LEN>
```

**ip summary-address eigrp default <IP-PREFIX/LEN>**

**Description:** Configure route summarization for EIGRP

**Syntax:**

|                      |  |
|----------------------|--|
| default              | EIGRP default instance                 |
| <i>IP-PREFIX/LEN</i> | Summary IPV4 address (e.g. 10.0.0.0/8) |

**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)# ip summary-address eigrp default <IP-PREFIX/LEN>
```

# ip throughput-delay

**ip throughput-delay eigrp default <NUMBER> tens-of-micro|pico**

**Description:** Set EIGRP throughput delay

**Syntax:**

|               |   |
|---------------|---|
| eigrp         | EIGRP   |
| default       | EIGRP default instance                            |
| <0-16777215>  | Throughput delay. Number range from=0 to=16777215 |
| tens-of-micro | Unit in 10-microseconds                           |
| pico          | Unit in picoseconds                               |

**Command Mode:** template eigrp interface-policy : Configure EIGRP Interface policy templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template eigrp interface-policy <WORD> tenant <WORD>
(config-template-eigrp-if-pol)# ip throughput-delay eigrp default <NUMBER> tens-of-micro|pico
```

**ip throughput-delay eigrp default <NUMBER> tens-of-micro|pico**

**Description:** Set EIGRP throughput delay

**Syntax:**

|               |   |
|---------------|---|
| eigrp         | EIGRP   |
| default       | EIGRP default instance                            |
| <0-16777215>  | Throughput delay. Number range from=0 to=16777215 |
| tens-of-micro | Unit in 10-microseconds                           |
| pico          | Unit in picoseconds                               |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# ip throughput-delay eigrp default <NUMBER> tens-of-micro|pico
```

**ip throughput-delay eigrp default <NUMBER> tens-of-micro|pico**

**Description:** Set EIGRP throughput delay

**Syntax:**

|               |   |
|---------------|---|
| eigrp         | EIGRP   |
| default       | EIGRP default instance                            |
| <0-16777215>  | Throughput delay. Number range from=0 to=16777215 |
| tens-of-micro | Unit in 10-microseconds                           |
| pico          | Unit in picoseconds                               |

**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)# ip throughput-delay eigrp default <NUMBER> tens-of-micro|pico
```

**ip throughput-delay eigrp default <NUMBER> tens-of-micro|pico**

**Description:** Set EIGRP throughput delay

**Syntax:**

|               |   |
|---------------|---|
| eigrp         | EIGRP   |
| default       | EIGRP default instance                            |
| <0-16777215>  | Throughput delay. Number range from=0 to=16777215 |
| tens-of-micro | Unit in 10-microseconds                           |
| pico          | Unit in picoseconds                               |

**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)# ip throughput-delay eigrp default <NUMBER> tens-of-micro|pico
```

**ip throughput-delay eigrp default <NUMBER> tens-of-micro|pico**

**Description:** Set EIGRP throughput delay

**Syntax:**

|               |   |
|---------------|---|
| eigrp         | EIGRP   |
| default       | EIGRP default instance                            |
| <0-16777215>  | Throughput delay. Number range from=0 to=16777215 |
| tens-of-micro | Unit in 10-microseconds                           |
| pico          | Unit in picoseconds                               |

**Command Mode:** template eigrp interface-policy : Configure EIGRP Interface policy templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# template eigrp interface-policy <WORD> tenant <WORD>
(config-template-eigrp-if-pol)# ip throughput-delay eigrp default <NUMBER> tens-of-micro|pico
```

**ip throughput-delay eigrp default <NUMBER> tens-of-micro|pico**

**Description:** Set EIGRP throughput delay

**Syntax:**

|               |   |
|---------------|---|
| eigrp         | EIGRP   |
| default       | EIGRP default instance                            |
| <0-16777215>  | Throughput delay. Number range from=0 to=16777215 |
| tens-of-micro | Unit in 10-microseconds                           |
| pico          | Unit in picoseconds                               |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# ip throughput-delay eigrp default <NUMBER> tens-of-micro|pico
```

**ip throughput-delay eigrp default <NUMBER> tens-of-micro|pico**

**Description:** Set EIGRP throughput delay

**Syntax:**

|         |                        |
|---------|------------------------|
| eigrp   | EIGRP                  |
| default | EIGRP default instance |

|               |   |
|---------------|---|
| <0-16777215>  | Throughput delay. Number range from=0 to=16777215 |
| tens-of-micro | Unit in 10-microseconds                           |
| pico          | Unit in picoseconds                               |

**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)# ip throughput-delay eigrp default <NUMBER> tens-of-micro|pico
```

**ip throughput-delay eigrp default <NUMBER> tens-of-micro|pico**

**Description:** Set EIGRP throughput delay

**Syntax:**

|               |   |
|---------------|---|
| eigrp         | EIGRP   |
| default       | EIGRP default instance                            |
| <0-16777215>  | Throughput delay. Number range from=0 to=16777215 |
| tens-of-micro | Unit in 10-microseconds                           |
| pico          | Unit in picoseconds                               |

**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)# ip throughput-delay eigrp default <NUMBER> tens-of-micro|pico
```



# ip ttl

## ip ttl <ttl>

**Description:** TTL

**Syntax:**

|            |                                       |
|------------|---------------------------------------|
| <i>ttl</i> | ttl value. Number range from=1 to=255 |
|------------|---------------------------------------|

**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)# ip ttl <ttl>
```

## ip ttl <ttl>

**Description:** TTL

**Syntax:**

|            |                                       |
|------------|---------------------------------------|
| <i>ttl</i> | ttl value. Number range from=1 to=255 |
|------------|---------------------------------------|

**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)# ip ttl <ttl>
```

## ip ttl <arg>

**Description:** TTL

**Syntax:**

|            |                                       |
|------------|---------------------------------------|
| <i>arg</i> | ttl value. Number range from=1 to=255 |
|------------|---------------------------------------|

**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)# ip ttl <>
```

**ip ttl <arg>****Description:** Configure TTL**Syntax:**

|            |                                       |
|------------|---------------------------------------|
| <i>arg</i> | TTL value. Number range from=1 to=255 |
|------------|---------------------------------------|

**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)# ip ttl <>
```

# ipdataplanelearning

## ipdataplanelearning disabled

**Description:** Disable ipDataPlaneLearning Vrf Knob

**Syntax:**

|          |                                      |
|----------|--------------------------------------|
| disabled | Disable ipDataPlaneLearning Vrf Knob |
|----------|--------------------------------------|

**Command Mode:** vrf : Configuration for vrf

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# vrf context <WORD>
(config-tenant-vrf)# ipdataplanelearning disabled
```

# ipobtainmode

## ipobtainmode learn|admin|autoconfig

**Description:** Mode to obtain Virtual IP Address

**Syntax:**

|            |                             |
|------------|-----------------------------|
| learn      | learn IP from HSRP peer     |
| admin      | Address is configured       |
| autoconfig | Auto configure ipv6 address |

**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)# ipobtainmode learn|admin|autoconfig
```

## ipobtainmode learn|admin|autoconfig

**Description:** Mode to obtain Virtual IP Address

**Syntax:**

|            |                             |
|------------|-----------------------------|
| learn      | learn IP from HSRP peer     |
| admin      | Address is configured       |
| autoconfig | Auto configure ipv6 address |

**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)# ipobtainmode learn|admin|autoconfig
```

## ipobtainmode learn|admin|autoconfig

**Description:** Mode to obtain Virtual IP Address

**Syntax:**

|       |                         |
|-------|-------------------------|
| learn | learn IP from HSRP peer |
|-------|-------------------------|

|            |                             |
|------------|-----------------------------|
| admin      | Address is configured       |
| autoconfig | Auto configure ipv6 address |

**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)# ipobtainmode learn|admin|autoconfig
```

### ipobtainmode learn|admin|autoconfig

**Description:** Mode to obtain Virtual IP Address

**Syntax:**

|            |                             |
|------------|-----------------------------|
| learn      | learn IP from HSRP peer     |
| admin      | Address is configured       |
| autoconfig | Auto configure ipv6 address |

**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)# ipobtainmode learn|admin|autoconfig
```

# iprange

**iprange** <startip> <endip>

**Description:** Add ip pool

**Syntax:**

|                |         |
|----------------|---------|
| <i>startip</i> | startip |
| <i>endip</i>   | endip   |

**Command Mode:** microsoft : Configure static IP pool

**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>
(config-tenant-app-epg-ms-ip-pool)# iprange <startip> <endip>
```

# ipsla-pol

**ipsla-pol** <WORD>

**Description:** Configure IPSLA Monitoring Policy

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | IP SLA Monitoring Policy Name (Max Size 64) |
|-------------|---|

**Command Mode:** tenant : Tenant configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# ipsla-pol <WORD>
```

# ipv6-router

## ipv6-router

**Description:** Config IPv6 router in trust control policy

**Command Mode:** trust-control : Configuration for trust control policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# first-hop-security
(config-tenant-fhs)# trust-control <WORD>
(config-tenant-fhs-trustctrl)# ipv6-router
```



# ipv6

**ipv6 route <A:B::C:D/LEN> <ipAddress|null> <ZeroorPref> <BfdorPref>**

**Description:** Configure IPv6 features

**Syntax:**

|                           |  |
|---------------------------|--|
| route                     | Configure IPv6 unicast static route                            |
| <i>A:B::C:D/LEN</i>       | IPv6 prefix format: xxxx:xxxx/ml, xxxx:xxxx::/ml, xxxx::xx/128 |
| <i>ipAddress null</i>     |  |
| <i>&lt;ZeroorPref&gt;</i> |  |
| <i>&lt;BfdorPref&gt;</i>  |  |

**Command Mode:** vrf : Configure VRF parameters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# vrf context tenant <WORD> vrf <WORD> [l3out <l3out>]
(config-leaf-vrf)# ipv6 route <A:B::C:D/LEN> <ipAddress|null> <ZeroorPref> <BfdorPref>
```

**ipv6 route <A:B::C:D/LEN> <ipAddress|null> <ZeroorPref> <BfdorPref>**

**Description:** Configure IPv6 features

**Syntax:**

|                           |  |
|---------------------------|--|
| route                     | Configure IPv6 unicast static route                            |
| <i>A:B::C:D/LEN</i>       | IPv6 prefix format: xxxx:xxxx/ml, xxxx:xxxx::/ml, xxxx::xx/128 |
| <i>ipAddress null</i>     |  |
| <i>&lt;ZeroorPref&gt;</i> |  |
| <i>&lt;BfdorPref&gt;</i>  |  |

**Command Mode:** vrf : Configure VRF parameters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# vrf context tenant <WORD> vrf <WORD> [l3out <l3out>]
(config-leaf-vrf)# ipv6 route <A:B::C:D/LEN> <ipAddress|null> <ZeroorPref> <BfdorPref>
```

# ipv6 address-range

**ipv6 address-range <A:B:C::X/LEN> gateway <A:B:C:X>**

**Description:** Configure IPv6 Address Range

**Syntax:**

|                     |  |
|---------------------|--|
| <i>A:B:C::X/LEN</i> | IPv6 address and network mask length   |
| gateway             | Configure gateway address on interface |
| <i>A:B:C:X</i>      | Gateway IPv6 address                   |

**Command Mode:** interface mgmt0 : Out of band management interface

**Command Path:**

```
# configure [['terminal', 't']]
(config)# controller
(config-controller)# interface mgmt0
(config-controller-if)# ipv6 address-range <A:B:C::X/LEN> gateway <A:B:C:X>
```

**ipv6 address-range <A:B:C::X/LEN> gateway <A:B:C:X>**

**Description:** Configure IPv6 Address Range

**Syntax:**

|                     |  |
|---------------------|--|
| <i>A:B:C::X/LEN</i> | IPv6 address and network mask length   |
| gateway             | Configure gateway address on interface |
| <i>A:B:C:X</i>      | Gateway IPv6 address                   |

**Command Mode:** interface inband-mgmt0 : Inband management interface

**Command Path:**

```
# configure [['terminal', 't']]
(config)# controller
(config-controller)# interface inband-mgmt0
(config-controller-if)# ipv6 address-range <A:B:C::X/LEN> gateway <A:B:C:X>
```

**ipv6 address-range <A:B:C::X/LEN> gateway <A:B:C:X>**

**Description:** Configure IPv6 Address Range

**Syntax:**

|                     |  |
|---------------------|--|
| <i>A:B:C::X/LEN</i> | IPv6 address and network mask length   |
| gateway             | Configure gateway address on interface |

|                |                      |
|----------------|----------------------|
| <i>A:B:C:X</i> | Gateway IPv6 address |
|----------------|----------------------|

**Command Mode:** interface mgmt0 : Out of band management interface

**Command Path:**

```
# configure [['terminal', 't']]
(config)# switch
(config-switch)# interface mgmt0
(config-switch-if)# ipv6 address-range <A:B:C::X/LEN> gateway <A:B:C:X>
```

**ipv6 address-range <A:B:C::X/LEN> gateway <A:B:C:X>**

**Description:** Configure IPv6 Address Range

**Syntax:**

|                     |  |
|---------------------|--|
| <i>A:B:C::X/LEN</i> | IPv6 address and network mask length   |
| gateway             | Configure gateway address on interface |
| <i>A:B:C:X</i>      | Gateway IPv6 address                   |

**Command Mode:** interface inband-mgmt0 : Inband management interface

**Command Path:**

```
# configure [['terminal', 't']]
(config)# switch
(config-switch)# interface inband-mgmt0
(config-switch-if)# ipv6 address-range <A:B:C::X/LEN> gateway <A:B:C:X>
```

# ipv6 address

**ipv6 address <A:B::C:D/LEN> [scope <scope>] [preferred] [suppress-nd] [eui64]**

**Description:** Define an IPv6 subnet to be exported by the BD

**Syntax:**

|                     |  |
|---------------------|--|
| <i>A:B::C:D/LEN</i> | IPv6 prefix format: xxxx:xxxx/ml, xxxx:xxxx::/ml, xxxx::xx/128 |
| <i>scope</i>        | (Optional) Scope of the address among ['public', 'private']    |
| <i>preferred</i>    | (Optional) Set the address as preferred address                |
| <i>suppress-nd</i>  | (Optional) Suppress the Neighbor Discovery on this subnet      |
| <i>eui64</i>        | (Optional) Use eui64 interface identifier                      |

**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)# ipv6 address <A:B::C:D/LEN> [scope <scope>] [preferred]
[suppress-nd] [eui64]
```

**ipv6 address <A:B::C:D/LEN> eui64 [preferred] [dad-disable]**

**Description:** Configure IPv6 address on interface

**Syntax:**

|                     |  |
|---------------------|--|
| <i>A:B::C:D/LEN</i> | IPv6 prefix format: xxxx:xxxx/ml, xxxx:xxxx::/ml, xxxx::xx/128           |
| <i>eui64</i>        | Configure Extended Unique Identifier for the low-order 64 bits           |
| <i>preferred</i>    | (Optional) Configure IPv6 address as preferred                           |
| <i>dad-disable</i>  | (Optional) Disable Duplicate Address Detection (DAD) for this IP Address |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# ipv6 address <A:B::C:D/LEN> eui64 [preferred] [dad-disable]
```

**ipv6 address <A:B::C:D/LEN> eui64 [preferred] [dad-disable]****Description:** Configure IPv6 address on interface**Syntax:**

|                     |  |
|---------------------|--|
| <i>A:B::C:D/LEN</i> | IPv6 prefix format: xxxx:xxxx/ml, xxxx:xxxx::/ml, xxxx::xx/128           |
| eui64               | Configure Extended Unique Identifier for the low-order 64 bits           |
| preferred           | (Optional) Configure IPv6 address as preferred                           |
| dad-disable         | (Optional) Disable Duplicate Address Detection (DAD) for this IP Address |

**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)# ipv6 address <A:B::C:D/LEN> eui64 [preferred] [dad-disable]
```

**ipv6 address <A:B::C:D/LEN> eui64 [preferred] [dad-disable]****Description:** Configure IPv6 address on interface**Syntax:**

|                     |  |
|---------------------|--|
| <i>A:B::C:D/LEN</i> | IPv6 prefix format: xxxx:xxxx/ml, xxxx:xxxx::/ml, xxxx::xx/128           |
| eui64               | Configure Extended Unique Identifier for the low-order 64 bits           |
| preferred           | (Optional) Configure IPv6 address as preferred                           |
| dad-disable         | (Optional) Disable Duplicate Address Detection (DAD) for this IP Address |

**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)# ipv6 address <A:B::C:D/LEN> eui64 [preferred] [dad-disable]
```

**ipv6 address <A:B::C:D/LEN> eui64 [preferred] [dad-disable]****Description:** Configure IPv6 address on interface**Syntax:**

|                     |  |
|---------------------|--|
| <i>A:B::C:D/LEN</i> | IPv6 prefix format: xxxx:xxxx/ml, xxxx:xxxx::/ml, xxxx::xx/128 |
|---------------------|--|

|             |  |
|-------------|--|
| eui64       | Configure Extended Unique Identifier for the low-order 64 bits           |
| preferred   | (Optional) Configure IPv6 address as preferred                           |
| dad-disable | (Optional) Disable Duplicate Address Detection (DAD) for this IP Address |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# ipv6 address <A:B::C:D/LEN> eui64 [preferred] [dad-disable]
```

**ipv6 address <A:B::C:D/LEN> eui64 [preferred] [dad-disable]**

**Description:** Configure IPv6 address on interface

**Syntax:**

|                     |  |
|---------------------|--|
| <i>A:B::C:D/LEN</i> | IPv6 prefix format: xxxx:xxxx/ml, xxxx:xxxx::/ml, xxxx::xx/128           |
| eui64               | Configure Extended Unique Identifier for the low-order 64 bits           |
| preferred           | (Optional) Configure IPv6 address as preferred                           |
| dad-disable         | (Optional) Disable Duplicate Address Detection (DAD) for this IP Address |

**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)# ipv6 address <A:B::C:D/LEN> eui64 [preferred] [dad-disable]
```

**ipv6 address <A:B::C:D/LEN> eui64 [preferred] [dad-disable]**

**Description:** Configure IPv6 address on interface

**Syntax:**

|                     |  |
|---------------------|--|
| <i>A:B::C:D/LEN</i> | IPv6 prefix format: xxxx:xxxx/ml, xxxx:xxxx::/ml, xxxx::xx/128           |
| eui64               | Configure Extended Unique Identifier for the low-order 64 bits           |
| preferred           | (Optional) Configure IPv6 address as preferred                           |
| dad-disable         | (Optional) Disable Duplicate Address Detection (DAD) for this IP Address |

**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)# ipv6 address <A:B::C:D/LEN> eui64 [preferred] [dad-disable]
```

**ipv6 address <A:B:C::X/LEN> gateway <A:B:C::X>**

**Description:** Configure IP and gateway features

**Syntax:**

|                     |  |
|---------------------|--|
| <i>A:B:C::X/LEN</i> | IPv6 address and network mask length   |
| gateway             | Configure gateway address on interface |
| <i>A:B:C::X</i>     | Gateway IPv6 address                   |

**Command Mode:** interface mgmt0 : Out of band management interface

**Command Path:**

```
# configure [['terminal', 't']]
(config)# controller
(config-controller)# interface mgmt0
(config-controller-if)# ipv6 address <A:B:C::X/LEN> gateway <A:B:C::X>
```

**ipv6 address <A:B:C::X/LEN> gateway <A:B:C::X>**

**Description:** Configure IPv6 Address and Gateway

**Syntax:**

|                     |  |
|---------------------|--|
| <i>A:B:C::X/LEN</i> | IPv6 address and network mask length   |
| gateway             | Configure gateway address on interface |
| <i>A:B:C::X</i>     | Gateway IPv6 address                   |

**Command Mode:** interface inband-mgmt0 : Inband management interface

**Command Path:**

```
# configure [['terminal', 't']]
(config)# controller
(config-controller)# interface inband-mgmt0
(config-controller-if)# ipv6 address <A:B:C::X/LEN> gateway <A:B:C::X>
```

**ipv6 address <A:B:C::X/LEN> gateway <A:B:C::X>**

**Description:** Configure IP and gateway features

**Syntax:**

|                     |  |
|---------------------|--|
| <i>A:B:C::X/LEN</i> | IPv6 address and network mask length   |
| gateway             | Configure gateway address on interface |
| <i>A:B:C::X</i>     | Gateway IPv6 address                   |

**Command Mode:** interface mgmt0 : Out of band management interface

**Command Path:**

```
# configure [['terminal', 't']]
(config)# switch
(config-switch)# interface mgmt0
(config-switch-if)# ipv6 address <A:B:C::X/LEN> gateway <A:B:C::X>
```

**ipv6 address <A:B:C::X/LEN> gateway <A:B:C::X>**

**Description:** Configure IPv6 Address and Gateway

**Syntax:**

|                     |  |
|---------------------|--|
| <i>A:B:C::X/LEN</i> | IPv6 address and network mask length   |
| gateway             | Configure gateway address on interface |
| <i>A:B:C::X</i>     | Gateway IPv6 address                   |

**Command Mode:** interface inband-mgmt0 : Inband management interface

**Command Path:**

```
# configure [['terminal', 't']]
(config)# switch
(config-switch)# interface inband-mgmt0
(config-switch-if)# ipv6 address <A:B:C::X/LEN> gateway <A:B:C::X>
```



# ipv6 address tenant application

**ipv6 address <A:B::C:D> tenant <WORD> application <WORD> epg <WORD>**

**Description:** Add a new server relay address under an AEPg

**Syntax:**

|                 |  |
|-----------------|--|
| <i>A:B::C:D</i> | IPv6 address in format xxxx:xxxx, xxxx:xx            |
| tenant          | Tenant hosting the DHCP server                       |
| <i>WORD</i>     | Tenant hosting the EPG (Max Size 63)                 |
| <i>WORD</i>     | Application hosting the EPG (Max Size 64)            |
| epg             | AEPg behind which the DHCP server sits               |
| <i>WORD</i>     | AEPg behind which the DHCP server sits (Max Size 64) |

**Command Mode:** template dhcp relay : Create a DHCP Relay policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template dhcp relay policy <WORD>
(config-template-dhcp-relay)# ipv6 address <A:B::C:D> tenant <WORD> application <WORD> epg
<WORD>
```

**ipv6 address <A:B::C:D> tenant <WORD> application <WORD> epg <WORD>**

**Description:** Add a new server relay address under an AEPg

**Syntax:**

|                 |  |
|-----------------|--|
| <i>A:B::C:D</i> | IPv6 address in format xxxx:xxxx, xxxx:xx            |
| tenant          | Tenant hosting the DHCP server                       |
| <i>WORD</i>     | Tenant hosting the EPG (Max Size 63)                 |
| <i>WORD</i>     | Application hosting the EPG (Max Size 64)            |
| epg             | AEPg behind which the DHCP server sits               |
| <i>WORD</i>     | AEPg behind which the DHCP server sits (Max Size 64) |

**Command Mode:** template dhcp relay : Create a DHCP Relay policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template dhcp relay policy <WORD>
```

```
(config-tenant-template-dhcp-relay)# ipv6 address <A:B::C:D> tenant <WORD> application  
<WORD> epg <WORD>
```

# ipv6 address tenant external-l2

**ipv6 address <A:B::C:D> tenant <WORD> external-l2 epg <WORD>**

**Description:** Add a new server relay address under a L2 External EPG

**Syntax:**

|                 |   |
|-----------------|---|
| <i>A:B::C:D</i> | IPv6 address in format xxxx:xxxx, xxxx::xx                      |
| tenant          | Tenant hosting the DHCP server                                  |
| <i>WORD</i>     | Tenant hosting the EPG (Max Size 63)                            |
| epg             | epg keyword   |
| <i>WORD</i>     | l2 external EPG behind which the DHCP server sits (Max Size 64) |

**Command Mode:** template dhcp relay : Create a DHCP Relay policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template dhcp relay policy <WORD>
(config-template-dhcp-relay)# ipv6 address <A:B::C:D> tenant <WORD> external-l2 epg <WORD>
```

**ipv6 address <A:B::C:D> tenant <WORD> external-l2 epg <WORD>**

**Description:** Add a new server relay address under a L2 External EPG

**Syntax:**

|                 |   |
|-----------------|---|
| <i>A:B::C:D</i> | IPv6 address in format xxxx:xxxx, xxxx::xx                      |
| tenant          | Tenant hosting the DHCP server                                  |
| <i>WORD</i>     | Tenant hosting the EPG (Max Size 63)                            |
| epg             | epg keyword   |
| <i>WORD</i>     | l2 external EPG behind which the DHCP server sits (Max Size 64) |

**Command Mode:** template dhcp relay : Create a DHCP Relay policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template dhcp relay policy <WORD>
(config-tenant-template-dhcp-relay)# ipv6 address <A:B::C:D> tenant <WORD> external-l2 epg
<WORD>
```

## ipv6 address tenant external-l3

**ipv6 address <A:B::C:D> tenant <WORD> external-l3 epg <WORD>**

**Description:** Add a new server relay address under a L3 External EPG

**Syntax:**

|                 |   |
|-----------------|---|
| <i>A:B::C:D</i> | IPv6 address in format xxxx:xxxx, xxxx::xx                      |
| tenant          | Tenant hosting the DHCP server                                  |
| <i>WORD</i>     | Tenant hosting the EPG (Max Size 63)                            |
| epg             | EPG keyword   |
| <i>WORD</i>     | l3 external EPG behind which the DHCP server sits (Max Size 64) |

**Command Mode:** template dhcp relay : Create a DHCP Relay policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template dhcp relay policy <WORD>
(config-template-dhcp-relay)# ipv6 address <A:B::C:D> tenant <WORD> external-l3 epg <WORD>
```

**ipv6 address <A:B::C:D> tenant <WORD> external-l3 epg <WORD>**

**Description:** Add a new server relay address under a L3 External EPG

**Syntax:**

|                 |   |
|-----------------|---|
| <i>A:B::C:D</i> | IPv6 address in format xxxx:xxxx, xxxx::xx                      |
| tenant          | Tenant hosting the DHCP server                                  |
| <i>WORD</i>     | Tenant hosting the EPG (Max Size 63)                            |
| epg             | EPG keyword   |
| <i>WORD</i>     | l3 external EPG behind which the DHCP server sits (Max Size 64) |

**Command Mode:** template dhcp relay : Create a DHCP Relay policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template dhcp relay policy <WORD>
(config-tenant-template-dhcp-relay)# ipv6 address <A:B::C:D> tenant <WORD> external-l3 epg
<WORD>
```

# ipv6 bandwidth

## ipv6 bandwidth eigrp default <NUMBER>

**Description:** Set EIGRP bandwidth

**Syntax:**

|                |  |
|----------------|--|
| eigrp          | EIGRP  |
| default        | EIGRP default instance                               |
| <0-2560000000> | bandwidth in kbps. Number range from=0 to=2560000000 |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# ipv6 bandwidth eigrp default <NUMBER>
```

## ipv6 bandwidth eigrp default <NUMBER>

**Description:** Set EIGRP bandwidth

**Syntax:**

|                |  |
|----------------|--|
| eigrp          | EIGRP  |
| default        | EIGRP default instance                               |
| <0-2560000000> | bandwidth in kbps. Number range from=0 to=2560000000 |

**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)# ipv6 bandwidth eigrp default <NUMBER>
```

## ipv6 bandwidth eigrp default <NUMBER>

**Description:** Set EIGRP bandwidth

**Syntax:**

|         |                        |
|---------|------------------------|
| eigrp   | EIGRP                  |
| default | EIGRP default instance |

|                |  |
|----------------|--|
| <0-2560000000> | bandwidth in kbps. Number range from=0 to=2560000000 |
|----------------|--|

**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)# ipv6 bandwidth eigrp default <NUMBER>
```

**ipv6 bandwidth eigrp default <NUMBER>**

**Description:** Set EIGRP bandwidth

**Syntax:**

|                |  |
|----------------|--|
| eigrp          | EIGRP  |
| default        | EIGRP default instance                               |
| <0-2560000000> | bandwidth in kbps. Number range from=0 to=2560000000 |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# ipv6 bandwidth eigrp default <NUMBER>
```

**ipv6 bandwidth eigrp default <NUMBER>**

**Description:** Set EIGRP bandwidth

**Syntax:**

|                |  |
|----------------|--|
| eigrp          | EIGRP  |
| default        | EIGRP default instance                               |
| <0-2560000000> | bandwidth in kbps. Number range from=0 to=2560000000 |

**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)# ipv6 bandwidth eigrp default <NUMBER>
```

**ipv6 bandwidth eigrp default <NUMBER>****Description:** Set EIGRP bandwidth**Syntax:**

|                |  |
|----------------|--|
| eigrp          | EIGRP  |
| default        | EIGRP default instance                               |
| <0-2560000000> | bandwidth in kbps. Number range from=0 to=2560000000 |

**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)# ipv6 bandwidth eigrp default <NUMBER>
```

# ipv6 bfd

## ipv6 bfd eigrp enable

**Description:** Enable EIGRP Bidirectional Forwarding Detection

**Syntax:**

|        |            |
|--------|------------|
| eigrp  | EIGRP      |
| enable | Enable BFD |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# ipv6 bfd eigrp enable
```

## ipv6 bfd eigrp enable

**Description:** Enable EIGRP Bidirectional Forwarding Detection

**Syntax:**

|        |            |
|--------|------------|
| eigrp  | EIGRP      |
| enable | Enable BFD |

**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)# ipv6 bfd eigrp enable
```

## ipv6 bfd eigrp enable

**Description:** Enable EIGRP Bidirectional Forwarding Detection

**Syntax:**

|        |            |
|--------|------------|
| eigrp  | EIGRP      |
| enable | Enable BFD |

**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)# ipv6 bfd eigrp enable
```

**ipv6 bfd eigrp enable**

**Description:** Enable EIGRP Bidirectional Forwarding Detection

**Syntax:**

|        |            |
|--------|------------|
| eigrp  | EIGRP      |
| enable | Enable BFD |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# ipv6 bfd eigrp enable
```

**ipv6 bfd eigrp enable**

**Description:** Enable EIGRP Bidirectional Forwarding Detection

**Syntax:**

|        |            |
|--------|------------|
| eigrp  | EIGRP      |
| enable | Enable BFD |

**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)# ipv6 bfd eigrp enable
```

**ipv6 bfd eigrp enable**

**Description:** Enable EIGRP Bidirectional Forwarding Detection

**Syntax:**

|        |            |
|--------|------------|
| eigrp  | EIGRP      |
| enable | Enable BFD |

**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)# ipv6 bfd eigrp enable
```

# ipv6 dhcp relay address tenant application

**ipv6 dhcp relay address** <A:B::C:D> tenant <WORD> application <WORD> epg <WORD>

**Description:** Add a new server relay address under an AEPg

**Syntax:**

|                 |  |
|-----------------|--|
| <i>A:B::C:D</i> | IPv6 address in format xxxx:xxxx, xxxx::xx           |
| tenant          | Tenant hosting the DHCP server                       |
| <i>WORD</i>     | Tenant hosting the EPG (Max Size 63)                 |
| <i>WORD</i>     | Application hosting the EPG (Max Size 64)            |
| epg             | AEPg behind which the DHCP server sits               |
| <i>WORD</i>     | AEPg behind which the DHCP server sits (Max Size 64) |

**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)# ipv6 dhcp relay address <A:B::C:D> tenant <WORD> application
<WORD> epg <WORD>
```

## ipv6 dhcp relay address tenant external-l2

**ipv6 dhcp relay address** <A:B::C:D> tenant <WORD> external-l2 epg <WORD>

**Description:** Add a new server relay address under a L2 External EPG

**Syntax:**

|                 |   |
|-----------------|---|
| <i>A:B::C:D</i> | IPv6 address in format xxxx:xxxx, xxxx:xx                       |
| tenant          | Tenant hosting the DHCP server                                  |
| <i>WORD</i>     | Tenant hosting the EPG (Max Size 63)                            |
| epg             | epg keyword   |
| <i>WORD</i>     | l2 external EPG behind which the DHCP server sits (Max Size 64) |

**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)# ipv6 dhcp relay address <A:B::C:D> tenant <WORD> external-l2 epg
<WORD>
```

# ipv6 dhcp relay address tenant external-l3

**ipv6 dhcp relay address <A:B::C:D> tenant <WORD> external-l3 epg <WORD>**

**Description:** Add a new server relay address under a L3 External EPG

**Syntax:**

|                 |   |
|-----------------|---|
| <i>A:B::C:D</i> | IPv6 address in format xxxx:xxxx, xxxx::xx                      |
| tenant          | Tenant hosting the DHCP server                                  |
| <i>WORD</i>     | Tenant hosting the EPG (Max Size 63)                            |
| epg             | EPG keyword   |
| <i>WORD</i>     | l3 external EPG behind which the DHCP server sits (Max Size 64) |

**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)# ipv6 dhcp relay address <A:B::C:D> tenant <WORD> external-l3 epg
<WORD>
```

# ipv6 distribute-list eigrp

## ipv6 distribute-list eigrp default route-map <WORD> out

**Description:** Configure distribute-list EIGRP route-map

**Syntax:**

|             |                              |
|-------------|------------------------------|
| default     | EIGRP default instance       |
| route-map   | route map                    |
| <i>WORD</i> | Route-map name (Max Size 64) |
| out         | out                          |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# ipv6 distribute-list eigrp default route-map <WORD> out
```

## ipv6 distribute-list eigrp default route-map <WORD> out

**Description:** Configure distribute-list EIGRP Policies

**Syntax:**

|             |                              |
|-------------|------------------------------|
| default     | EIGRP default instance       |
| route-map   | route map                    |
| <i>WORD</i> | Route-map name (Max Size 64) |
| out         | out                          |

**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)# ipv6 distribute-list eigrp default route-map <WORD> out
```

## ipv6 distribute-list eigrp default route-map <WORD> out

**Description:** Configure distribute-list EIGRP Policies

**Syntax:**

|             |                              |
|-------------|------------------------------|
| default     | EIGRP default instance       |
| route-map   | route map                    |
| <i>WORD</i> | Route-map name (Max Size 64) |
| out         | out                          |

**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)# ipv6 distribute-list eigrp default route-map <WORD> out
```

**ipv6 distribute-list eigrp default route-map <WORD> out**

**Description:** Configure distribute-list EIGRP route-map

**Syntax:**

|             |                              |
|-------------|------------------------------|
| default     | EIGRP default instance       |
| route-map   | route map                    |
| <i>WORD</i> | Route-map name (Max Size 64) |
| out         | out                          |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# ipv6 distribute-list eigrp default route-map <WORD> out
```

**ipv6 distribute-list eigrp default route-map <WORD> out**

**Description:** Configure distribute-list EIGRP Policies

**Syntax:**

|             |                              |
|-------------|------------------------------|
| default     | EIGRP default instance       |
| route-map   | route map                    |
| <i>WORD</i> | Route-map name (Max Size 64) |
| out         | out                          |

**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)# ipv6 distribute-list eigrp default route-map <WORD> out
```

**ipv6 distribute-list eigrp default route-map <WORD> out****Description:** Configure distribute-list EIGRP Policies**Syntax:**

|             |                              |
|-------------|------------------------------|
| default     | EIGRP default instance       |
| route-map   | route map                    |
| <i>WORD</i> | Route-map name (Max Size 64) |
| out         | out                          |

**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)# ipv6 distribute-list eigrp default route-map <WORD> out
```



# ipv6 flow

## ipv6 flow monitor <WORD>

**Description:** Configure Netflow on the Policy Group

**Syntax:**

|         |   |
|---------|---|
| monitor | Configure Netflow on the Policy Group     |
| WORD    | Netflow Monitor Policy Name (Max Size 64) |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template policy-group <WORD>
(config-pol-grp-if)# ipv6 flow monitor <WORD>
```

## ipv6 flow monitor <WORD>

**Description:** Configure Netflow on the Interface

**Syntax:**

|         |   |
|---------|---|
| monitor | Configure Netflow on the Interface        |
| WORD    | Netflow Monitor Policy Name (Max Size 64) |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template port-channel <WORD>
(config-po-ch-if)# ipv6 flow monitor <WORD>
```

## ipv6 flow monitor <WORD>

**Description:** Configure Netflow on the Interface

**Syntax:**

|         |   |
|---------|---|
| monitor | Configure Netflow on the Interface        |
| WORD    | Netflow Monitor Policy Name (Max Size 64) |

**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)# ipv6 flow monitor <WORD>
```

**ipv6 flow monitor <WORD>**

**Description:** Configure Netflow on the Interface

**Syntax:**

|             |   |
|-------------|---|
| monitor     | Configure Netflow on the Interface        |
| <i>WORD</i> | Netflow Monitor Policy Name (Max Size 64) |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# ipv6 flow monitor <WORD>
```

**ipv6 flow monitor <arg>**

**Description:** Configure Netflow on the Interface

**Syntax:**

|            |   |
|------------|---|
| monitor    | Configure Netflow on the Interface        |
| <i>arg</i> | Netflow Monitor Policy Name (Max Size 64) |

**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)# ipv6 flow monitor <>
```

**ipv6 flow monitor <WORD>**

**Description:** Configure Netflow on the Interface

**Syntax:**

|             |   |
|-------------|---|
| monitor     | Configure Netflow on the Interface        |
| <i>WORD</i> | Netflow Monitor Policy Name (Max Size 64) |

**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)# ipv6 flow monitor <WORD>
```

**ipv6 flow monitor <WORD>**

**Description:** Configure Netflow on the Interface

**Syntax:**

|         |   |
|---------|---|
| monitor | Configure Netflow on the Interface        |
| WORD    | Netflow Monitor Policy Name (Max Size 64) |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# ipv6 flow monitor <WORD>
```

**ipv6 flow monitor <arg>**

**Description:** Configure Netflow on the Interface

**Syntax:**

|         |   |
|---------|---|
| monitor | Configure Netflow on the Interface        |
| arg     | Netflow Monitor Policy Name (Max Size 64) |

**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)# ipv6 flow monitor <>
```

**ipv6 flow monitor <WORD>**

**Description:** Configure Netflow on the Interface

**Syntax:**

|         |   |
|---------|---|
| monitor | Configure Netflow on the Interface        |
| WORD    | Netflow Monitor Policy Name (Max Size 64) |

**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)# ipv6 flow monitor <WORD>
```

**ipv6 flow monitor <WORD>**

**Description:** Configure Netflow on the VPC

**Syntax:**

|             |   |
|-------------|---|
| monitor     | Configure Netflow on the VPC              |
| <i>WORD</i> | Netflow Monitor Policy Name (Max Size 64) |

**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)# ipv6 flow monitor <WORD>
```

# ipv6 hello-interval

## ipv6 hello-interval eigrp default <NUMBER>

**Description:** Set EIGRP Hello interval time

**Syntax:**

|           |  |
|-----------|--|
| eigrp     | EIGRP  |
| default   | EIGRP default instance                                       |
| <1-65535> | Hello interval time in seconds. Number range from=1 to=65535 |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# ipv6 hello-interval eigrp default <NUMBER>
```

## ipv6 hello-interval eigrp default <NUMBER>

**Description:** Set EIGRP Hello interval time

**Syntax:**

|           |  |
|-----------|--|
| eigrp     | EIGRP  |
| default   | EIGRP default instance                                       |
| <1-65535> | Hello interval time in seconds. Number range from=1 to=65535 |

**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)# ipv6 hello-interval eigrp default <NUMBER>
```

## ipv6 hello-interval eigrp default <NUMBER>

**Description:** Set EIGRP Hello interval time

**Syntax:**

|         |                        |
|---------|------------------------|
| eigrp   | EIGRP                  |
| default | EIGRP default instance |

|           |  |
|-----------|--|
| <1-65535> | Hello interval time in seconds. Number range from=1 to=65535 |
|-----------|--|

**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)# ipv6 hello-interval eigrp default <NUMBER>
```

**ipv6 hello-interval eigrp default <NUMBER>**

**Description:** Set EIGRP Hello interval time

**Syntax:**

|           |  |
|-----------|--|
| eigrp     | EIGRP  |
| default   | EIGRP default instance                                       |
| <1-65535> | Hello interval time in seconds. Number range from=1 to=65535 |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# ipv6 hello-interval eigrp default <NUMBER>
```

**ipv6 hello-interval eigrp default <NUMBER>**

**Description:** Set EIGRP Hello interval time

**Syntax:**

|           |  |
|-----------|--|
| eigrp     | EIGRP  |
| default   | EIGRP default instance                                       |
| <1-65535> | Hello interval time in seconds. Number range from=1 to=65535 |

**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)# ipv6 hello-interval eigrp default <NUMBER>
```

**ipv6 hello-interval eigrp default <NUMBER>****Description:** Set EIGRP Hello interval time**Syntax:**

|           |  |
|-----------|--|
| eigrp     | EIGRP  |
| default   | EIGRP default instance                                       |
| <1-65535> | Hello interval time in seconds. Number range from=1 to=65535 |

**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)# ipv6 hello-interval eigrp default <NUMBER>
```

# ipv6 hold-interval

## ipv6 hold-interval eigrp default <NUMBER>

**Description:** Set EIGRP Hold interval time

**Syntax:**

|           |   |
|-----------|---|
| eigrp     | EIGRP   |
| default   | EIGRP default instance                                      |
| <1-65535> | Hold interval time in seconds. Number range from=1 to=65535 |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# ipv6 hold-interval eigrp default <NUMBER>
```

## ipv6 hold-interval eigrp default <NUMBER>

**Description:** Set EIGRP Hold interval time

**Syntax:**

|           |   |
|-----------|---|
| eigrp     | EIGRP   |
| default   | EIGRP default instance                                      |
| <1-65535> | Hold interval time in seconds. Number range from=1 to=65535 |

**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)# ipv6 hold-interval eigrp default <NUMBER>
```

## ipv6 hold-interval eigrp default <NUMBER>

**Description:** Set EIGRP Hold interval time

**Syntax:**

|         |                        |
|---------|------------------------|
| eigrp   | EIGRP                  |
| default | EIGRP default instance |



|           |   |
|-----------|---|
| <1-65535> | Hold interval time in seconds. Number range from=1 to=65535 |
|-----------|---|

**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)# ipv6 hold-interval eigrp default <NUMBER>
```

### ipv6 hold-interval eigrp default <NUMBER>

**Description:** Set EIGRP Hold interval time

**Syntax:**

|           |   |
|-----------|---|
| eigrp     | EIGRP   |
| default   | EIGRP default instance                                      |
| <1-65535> | Hold interval time in seconds. Number range from=1 to=65535 |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# ipv6 hold-interval eigrp default <NUMBER>
```

### ipv6 hold-interval eigrp default <NUMBER>

**Description:** Set EIGRP Hold interval time

**Syntax:**

|           |   |
|-----------|---|
| eigrp     | EIGRP   |
| default   | EIGRP default instance                                      |
| <1-65535> | Hold interval time in seconds. Number range from=1 to=65535 |

**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)# ipv6 hold-interval eigrp default <NUMBER>
```

**ipv6 hold-interval eigrp default <NUMBER>****Description:** Set EIGRP Hold interval time**Syntax:**

|           |   |
|-----------|---|
| eigrp     | EIGRP   |
| default   | EIGRP default instance                                      |
| <1-65535> | Hold interval time in seconds. Number range from=1 to=65535 |

**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)# ipv6 hold-interval eigrp default <NUMBER>
```

# ipv6 link-local

## ipv6 link-local <A:B::C:D>

**Description:** Configure IPv6 link-local address

**Syntax:**

|          |  |
|----------|--|
| A:B::C:D | IPv6 address in format xxxx:xxxx, xxxx::xx |
|----------|--|

**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)# ipv6 link-local <A:B::C:D>
```

## ipv6 link-local <X:X:X:X>

**Description:** Configure IPv6 link-local address

**Syntax:**

|            |                         |
|------------|-------------------------|
| X:X:X:X::X | IPv6 link-local address |
|------------|-------------------------|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# ipv6 link-local <X:X:X:X::X>
```

## ipv6 link-local <X:X:X:X>

**Description:** Configure IPv6 link-local address

**Syntax:**

|            |                         |
|------------|-------------------------|
| X:X:X:X::X | IPv6 link-local address |
|------------|-------------------------|

**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)# ipv6 link-local <X:X:X:X::X>
```

**ipv6 link-local <X:X:X:X>**

**Description:** Configure IPv6 link-local address

**Syntax:**

|            |                         |
|------------|-------------------------|
| X:X:X:X::X | IPv6 link-local address |
|------------|-------------------------|

**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)# ipv6 link-local <X:X:X:X::X>
```

**ipv6 link-local <X:X:X:X>**

**Description:** Configure IPv6 link-local address

**Syntax:**

|            |                         |
|------------|-------------------------|
| X:X:X:X::X | IPv6 link-local address |
|------------|-------------------------|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# ipv6 link-local <X:X:X:X::X>
```

**ipv6 link-local <X:X:X:X>**

**Description:** Configure IPv6 link-local address

**Syntax:**

|            |                         |
|------------|-------------------------|
| X:X:X:X::X | IPv6 link-local address |
|------------|-------------------------|

**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)# ipv6 link-local <X:X:X:X::X>
```

**ipv6 link-local <X:X:X:X>**

**Description:** Configure IPv6 link-local address

**Syntax:**

|            |                         |
|------------|-------------------------|
| X:X:X:X::X | IPv6 link-local address |
|------------|-------------------------|

**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)# ipv6 link-local <X:X:X:X::X>
```

# ipv6 nd hop-limit

## ipv6 nd hop-limit <NUMBER>

**Description:** Set the hop limit to be advertised in IPv6 neighbor discovery packets

**Syntax:**

|         |                                       |
|---------|---------------------------------------|
| <0-255> | Hop Limit. Number range from=0 to=255 |
|---------|---------------------------------------|

**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)# ipv6 nd hop-limit <NUMBER>
```

## ipv6 nd hop-limit <NUMBER>

**Description:** Set the hop limit to be advertised in IPv6 neighbor discovery packets

**Syntax:**

|         |                                       |
|---------|---------------------------------------|
| <0-255> | Hop Limit. Number range from=0 to=255 |
|---------|---------------------------------------|

**Command Mode:** template ipv6 nd policy : Create/modify an an IPv6 Neighbor Discovery policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template ipv6 nd policy <WORD>
(config-tenant-template-ipv6-nd)# ipv6 nd hop-limit <NUMBER>
```

## ipv6 nd hop-limit <NUMBER>

**Description:** Set the hop limit to be advertised in IPv6 neighbor discovery packets

**Syntax:**

|         |                                       |
|---------|---------------------------------------|
| <0-255> | Hop Limit. Number range from=0 to=255 |
|---------|---------------------------------------|

**Command Mode:** template ipv6 nd policy : Configure IPv6 Neighbor Discovery policy templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template ipv6 nd policy <WORD> tenant <WORD>
(config-template-nd-pol)# ipv6 nd hop-limit <NUMBER>
```

**ipv6 nd hop-limit <NUMBER>**

**Description:** Set the hop limit to be advertised in IPv6 neighbor discovery packets

**Syntax:**

|         |                                       |
|---------|---------------------------------------|
| <0-255> | Hop Limit. Number range from=0 to=255 |
|---------|---------------------------------------|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# ipv6 nd hop-limit <NUMBER>
```

**ipv6 nd hop-limit <NUMBER>**

**Description:** Set the hop limit to be advertised in IPv6 neighbor discovery packets

**Syntax:**

|         |                                       |
|---------|---------------------------------------|
| <0-255> | Hop Limit. Number range from=0 to=255 |
|---------|---------------------------------------|

**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)# ipv6 nd hop-limit <NUMBER>
```

**ipv6 nd hop-limit <NUMBER>**

**Description:** Set the hop limit to be advertised in IPv6 neighbor discovery packets

**Syntax:**

|         |                                       |
|---------|---------------------------------------|
| <0-255> | Hop Limit. Number range from=0 to=255 |
|---------|---------------------------------------|

**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)# ipv6 nd hop-limit <NUMBER>
```

**ipv6 nd hop-limit <NUMBER>**

**Description:** Set the hop limit to be advertised in IPv6 neighbor discovery packets

**Syntax:**

|         |                                       |
|---------|---------------------------------------|
| <0-255> | Hop Limit. Number range from=0 to=255 |
|---------|---------------------------------------|

**Command Mode:** template ipv6 nd policy : Configure IPv6 Neighbor Discovery policy templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# template ipv6 nd policy <WORD> tenant <WORD>
(config-template-nd-pol)# ipv6 nd hop-limit <NUMBER>
```

**ipv6 nd hop-limit <NUMBER>**

**Description:** Set the hop limit to be advertised in IPv6 neighbor discovery packets

**Syntax:**

|         |                                       |
|---------|---------------------------------------|
| <0-255> | Hop Limit. Number range from=0 to=255 |
|---------|---------------------------------------|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# ipv6 nd hop-limit <NUMBER>
```

**ipv6 nd hop-limit <NUMBER>**

**Description:** Set the hop limit to be advertised in IPv6 neighbor discovery packets

**Syntax:**

|         |                                       |
|---------|---------------------------------------|
| <0-255> | Hop Limit. Number range from=0 to=255 |
|---------|---------------------------------------|

**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)# ipv6 nd hop-limit <NUMBER>
```

**ipv6 nd hop-limit <NUMBER>**

**Description:** Set the hop limit to be advertised in IPv6 neighbor discovery packets

**Syntax:**

|         |                                       |
|---------|---------------------------------------|
| <0-255> | Hop Limit. Number range from=0 to=255 |
|---------|---------------------------------------|

**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)# ipv6 nd hop-limit <NUMBER>
```

## ipv6 nd managed-config-flag

### ipv6 nd managed-config-flag

**Description:** Use stateful address auto-configuration to obtain address information

**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)# ipv6 nd managed-config-flag
```

### ipv6 nd managed-config-flag

**Description:** Use stateful address auto-configuration to obtain address information

**Command Mode:** template ipv6 nd policy : Create/modify an an IPv6 Neighbor Discovery policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template ipv6 nd policy <WORD>
(config-tenant-template-ipv6-nd)# ipv6 nd managed-config-flag
```

### ipv6 nd managed-config-flag

**Description:** Use stateful address auto-configuration to obtain address information

**Command Mode:** template ipv6 nd policy : Configure IPv6 Neighbor Discovery policy templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template ipv6 nd policy <WORD> tenant <WORD>
(config-template-nd-pol)# ipv6 nd managed-config-flag
```

### ipv6 nd managed-config-flag

**Description:** Use stateful address auto-configuration to obtain address information

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# ipv6 nd managed-config-flag
```

**ipv6 nd managed-config-flag**

**Description:** Use stateful address auto-configuration to obtain address information

**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)# ipv6 nd managed-config-flag
```

**ipv6 nd managed-config-flag**

**Description:** Use stateful address auto-configuration to obtain address information

**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)# ipv6 nd managed-config-flag
```

**ipv6 nd managed-config-flag**

**Description:** Use stateful address auto-configuration to obtain address information

**Command Mode:** template ipv6 nd policy : Configure IPv6 Neighbor Discovery policy templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# template ipv6 nd policy <WORD> tenant <WORD>
(config-template-nd-pol)# ipv6 nd managed-config-flag
```

**ipv6 nd managed-config-flag**

**Description:** Use stateful address auto-configuration to obtain address information

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# ipv6 nd managed-config-flag
```

**ipv6 nd managed-config-flag**

**Description:** Use stateful address auto-configuration to obtain address information

**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)# ipv6 nd managed-config-flag
```

### ipv6 nd managed-config-flag

**Description:** Use stateful address auto-configuration to obtain address information

**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)# ipv6 nd managed-config-flag
```

# ipv6 nd mtu

## ipv6 nd mtu <NUMBER>

**Description:** Set the mtu to be advertised in IPv6 neighbor discovery packets

**Syntax:**

|             |   |
|-------------|---|
| <1280-9000> | MTU value. Number range from=1280 to=9000 |
|-------------|---|

**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)# ipv6 nd mtu <NUMBER>
```

## ipv6 nd mtu <NUMBER>

**Description:** Set the mtu to be advertised in IPv6 neighbor discovery packets

**Syntax:**

|             |   |
|-------------|---|
| <1280-9000> | MTU value. Number range from=1280 to=9000 |
|-------------|---|

**Command Mode:** template ipv6 nd policy : Create/modify an an IPv6 Neighbor Discovery policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template ipv6 nd policy <WORD>
(config-tenant-template-ipv6-nd)# ipv6 nd mtu <NUMBER>
```

## ipv6 nd mtu <NUMBER>

**Description:** Set the mtu to be advertised in IPv6 neighbor discovery packets

**Syntax:**

|             |   |
|-------------|---|
| <1280-9000> | MTU value. Number range from=1280 to=9000 |
|-------------|---|

**Command Mode:** template ipv6 nd policy : Configure IPv6 Neighbor Discovery policy templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template ipv6 nd policy <WORD> tenant <WORD>
(config-template-nd-pol)# ipv6 nd mtu <NUMBER>
```

**ipv6 nd mtu <NUMBER>****Description:** Set the mtu to be advertised in IPv6 neighbor discovery packets**Syntax:**

|             |   |
|-------------|---|
| <1280-9000> | MTU value. Number range from=1280 to=9000 |
|-------------|---|

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

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# ipv6 nd mtu <NUMBER>
```

**ipv6 nd mtu <NUMBER>****Description:** Set the mtu to be advertised in IPv6 neighbor discovery packets**Syntax:**

|             |   |
|-------------|---|
| <1280-9000> | MTU value. Number range from=1280 to=9000 |
|-------------|---|

**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)# ipv6 nd mtu <NUMBER>
```

**ipv6 nd mtu <NUMBER>****Description:** Set the mtu to be advertised in IPv6 neighbor discovery packets**Syntax:**

|             |   |
|-------------|---|
| <1280-9000> | MTU value. Number range from=1280 to=9000 |
|-------------|---|

**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)# ipv6 nd mtu <NUMBER>
```

**ipv6 nd mtu <NUMBER>****Description:** Set the mtu to be advertised in IPv6 neighbor discovery packets**Syntax:**

|             |   |
|-------------|---|
| <1280-9000> | MTU value. Number range from=1280 to=9000 |
|-------------|---|

**Command Mode:** template ipv6 nd policy : Configure IPv6 Neighbor Discovery policy templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# template ipv6 nd policy <WORD> tenant <WORD>
(config-template-nd-pol)# ipv6 nd mtu <NUMBER>
```

**ipv6 nd mtu <NUMBER>**

**Description:** Set the mtu to be advertised in IPv6 neighbor discovery packets

**Syntax:**

|             |   |
|-------------|---|
| <1280-9000> | MTU value. Number range from=1280 to=9000 |
|-------------|---|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# ipv6 nd mtu <NUMBER>
```

**ipv6 nd mtu <NUMBER>**

**Description:** Set the mtu to be advertised in IPv6 neighbor discovery packets

**Syntax:**

|             |   |
|-------------|---|
| <1280-9000> | MTU value. Number range from=1280 to=9000 |
|-------------|---|

**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)# ipv6 nd mtu <NUMBER>
```

**ipv6 nd mtu <NUMBER>**

**Description:** Set the mtu to be advertised in IPv6 neighbor discovery packets

**Syntax:**

|             |   |
|-------------|---|
| <1280-9000> | MTU value. Number range from=1280 to=9000 |
|-------------|---|

**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)# ipv6 nd mtu <NUMBER>
```



# ipv6 nd ns-interval

## ipv6 nd ns-interval <NUMBER>

**Description:** Set the retransmission interval between IPv6 neighbor solicitation messages

**Syntax:**

|                |   |
|----------------|---|
| <1000-3600000> | Interval value. Number range from=1000 to=3600000 |
|----------------|---|

**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)# ipv6 nd ns-interval <NUMBER>
```

## ipv6 nd ns-interval <NUMBER>

**Description:** Set the retransmission interval between IPv6 neighbor solicitation messages

**Syntax:**

|                |   |
|----------------|---|
| <1000-3600000> | Interval value. Number range from=1000 to=3600000 |
|----------------|---|

**Command Mode:** template ipv6 nd policy : Create/modify an an IPv6 Neighbor Discovery policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template ipv6 nd policy <WORD>
(config-tenant-template-ipv6-nd)# ipv6 nd ns-interval <NUMBER>
```

## ipv6 nd ns-interval <NUMBER>

**Description:** Set the retransmission interval between IPv6 neighbor solicitation messages

**Syntax:**

|                |   |
|----------------|---|
| <1000-3600000> | Interval value. Number range from=1000 to=3600000 |
|----------------|---|

**Command Mode:** template ipv6 nd policy : Configure IPv6 Neighbor Discovery policy templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template ipv6 nd policy <WORD> tenant <WORD>
(config-template-nd-pol)# ipv6 nd ns-interval <NUMBER>
```

**ipv6 nd ns-interval <NUMBER>****Description:** Set the retransmission interval between IPv6 neighbor solicitation messages**Syntax:**

|                |   |
|----------------|---|
| <1000-3600000> | Interval value. Number range from=1000 to=3600000 |
|----------------|---|

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

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# ipv6 nd ns-interval <NUMBER>
```

**ipv6 nd ns-interval <NUMBER>****Description:** Set the retransmission interval between IPv6 neighbor solicitation messages**Syntax:**

|                |   |
|----------------|---|
| <1000-3600000> | Interval value. Number range from=1000 to=3600000 |
|----------------|---|

**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)# ipv6 nd ns-interval <NUMBER>
```

**ipv6 nd ns-interval <NUMBER>****Description:** Set the retransmission interval between IPv6 neighbor solicitation messages**Syntax:**

|                |   |
|----------------|---|
| <1000-3600000> | Interval value. Number range from=1000 to=3600000 |
|----------------|---|

**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)# ipv6 nd ns-interval <NUMBER>
```

**ipv6 nd ns-interval <NUMBER>****Description:** Set the retransmission interval between IPv6 neighbor solicitation messages**Syntax:**

|                |   |
|----------------|---|
| <1000-3600000> | Interval value. Number range from=1000 to=3600000 |
|----------------|---|

**Command Mode:** template ipv6 nd policy : Configure IPv6 Neighbor Discovery policy templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# template ipv6 nd policy <WORD> tenant <WORD>
(config-template-nd-pol)# ipv6 nd ns-interval <NUMBER>
```

**ipv6 nd ns-interval <NUMBER>**

**Description:** Set the retransmission interval between IPv6 neighbor solicitation messages

**Syntax:**

|                |   |
|----------------|---|
| <1000-3600000> | Interval value. Number range from=1000 to=3600000 |
|----------------|---|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# ipv6 nd ns-interval <NUMBER>
```

**ipv6 nd ns-interval <NUMBER>**

**Description:** Set the retransmission interval between IPv6 neighbor solicitation messages

**Syntax:**

|                |   |
|----------------|---|
| <1000-3600000> | Interval value. Number range from=1000 to=3600000 |
|----------------|---|

**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)# ipv6 nd ns-interval <NUMBER>
```

**ipv6 nd ns-interval <NUMBER>**

**Description:** Set the retransmission interval between IPv6 neighbor solicitation messages

**Syntax:**

|                |   |
|----------------|---|
| <1000-3600000> | Interval value. Number range from=1000 to=3600000 |
|----------------|---|

**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)# ipv6 nd ns-interval <NUMBER>
```

## ipv6 nd ns-retries

### ipv6 nd ns-retries <NUMBER>

**Description:** Set the retry count for for sending neighbor solicitation messages

**Syntax:**

|         |   |
|---------|---|
| <1-100> | Number of retries. Number range from=1 to=100 |
|---------|---|

**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)# ipv6 nd ns-retries <NUMBER>
```

### ipv6 nd ns-retries <NUMBER>

**Description:** Set the retry count for for sending neighbor solicitation messages

**Syntax:**

|         |   |
|---------|---|
| <1-100> | Number of retries. Number range from=1 to=100 |
|---------|---|

**Command Mode:** template ipv6 nd policy : Create/modify an an IPv6 Neighbor Discovery policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template ipv6 nd policy <WORD>
(config-tenant-template-ipv6-nd)# ipv6 nd ns-retries <NUMBER>
```

### ipv6 nd ns-retries <NUMBER>

**Description:** Set the retry count for for sending neighbor solicitation messages

**Syntax:**

|         |   |
|---------|---|
| <1-100> | Number of retries. Number range from=1 to=100 |
|---------|---|

**Command Mode:** template ipv6 nd policy : Configure IPv6 Neighbor Discovery policy templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template ipv6 nd policy <WORD> tenant <WORD>
(config-template-nd-pol)# ipv6 nd ns-retries <NUMBER>
```

**ipv6 nd ns-retries <NUMBER>****Description:** Set the retry count for for sending neighbor solicitation messages**Syntax:**

|         |   |
|---------|---|
| <1-100> | Number of retries. Number range from=1 to=100 |
|---------|---|

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

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# ipv6 nd ns-retries <NUMBER>
```

**ipv6 nd ns-retries <NUMBER>****Description:** Set the retry count for for sending neighbor solicitation messages**Syntax:**

|         |   |
|---------|---|
| <1-100> | Number of retries. Number range from=1 to=100 |
|---------|---|

**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)# ipv6 nd ns-retries <NUMBER>
```

**ipv6 nd ns-retries <NUMBER>****Description:** Set the retry count for for sending neighbor solicitation messages**Syntax:**

|         |   |
|---------|---|
| <1-100> | Number of retries. Number range from=1 to=100 |
|---------|---|

**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)# ipv6 nd ns-retries <NUMBER>
```

**ipv6 nd ns-retries <NUMBER>****Description:** Set the retry count for for sending neighbor solicitation messages**Syntax:**

|         |   |
|---------|---|
| <1-100> | Number of retries. Number range from=1 to=100 |
|---------|---|

**Command Mode:** template ipv6 nd policy : Configure IPv6 Neighbor Discovery policy templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# template ipv6 nd policy <WORD> tenant <WORD>
(config-template-nd-pol)# ipv6 nd ns-retries <NUMBER>
```

### ipv6 nd ns-retries <NUMBER>

**Description:** Set the retry count for for sending neighbor solicitation messages

**Syntax:**

|         |   |
|---------|---|
| <1-100> | Number of retries. Number range from=1 to=100 |
|---------|---|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# ipv6 nd ns-retries <NUMBER>
```

### ipv6 nd ns-retries <NUMBER>

**Description:** Set the retry count for for sending neighbor solicitation messages

**Syntax:**

|         |   |
|---------|---|
| <1-100> | Number of retries. Number range from=1 to=100 |
|---------|---|

**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)# ipv6 nd ns-retries <NUMBER>
```

### ipv6 nd ns-retries <NUMBER>

**Description:** Set the retry count for for sending neighbor solicitation messages

**Syntax:**

|         |   |
|---------|---|
| <1-100> | Number of retries. Number range from=1 to=100 |
|---------|---|

**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)# ipv6 nd ns-retries <NUMBER>
```



# ipv6 nd other-config-flag

## ipv6 nd other-config-flag

**Description:** Use stateful auto-configuration to obtain NON-address information

**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)# ipv6 nd other-config-flag
```

## ipv6 nd other-config-flag

**Description:** Use stateful auto-configuration to obtain NON-address information

**Command Mode:** template ipv6 nd policy : Create/modify an an IPv6 Neighbor Discovery policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template ipv6 nd policy <WORD>
(config-tenant-template-ipv6-nd)# ipv6 nd other-config-flag
```

## ipv6 nd other-config-flag

**Description:** Use stateful auto-configuration to obtain NON-address information

**Command Mode:** template ipv6 nd policy : Configure IPv6 Neighbor Discovery policy templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template ipv6 nd policy <WORD> tenant <WORD>
(config-template-nd-pol)# ipv6 nd other-config-flag
```

## ipv6 nd other-config-flag

**Description:** Use stateful auto-configuration to obtain NON-address information

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# ipv6 nd other-config-flag
```

**ipv6 nd other-config-flag****Description:** Use stateful auto-configuration to obtain NON-address information**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)# ipv6 nd other-config-flag
```

**ipv6 nd other-config-flag****Description:** Use stateful auto-configuration to obtain NON-address information**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)# ipv6 nd other-config-flag
```

**ipv6 nd other-config-flag****Description:** Use stateful auto-configuration to obtain NON-address information**Command Mode:** template ipv6 nd policy : Configure IPv6 Neighbor Discovery policy templates**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# template ipv6 nd policy <WORD> tenant <WORD>
(config-template-nd-pol)# ipv6 nd other-config-flag
```

**ipv6 nd other-config-flag****Description:** Use stateful auto-configuration to obtain NON-address information**Command Mode:** interface vlan : Vlan interface**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# ipv6 nd other-config-flag
```

**ipv6 nd other-config-flag****Description:** Use stateful auto-configuration to obtain NON-address information

**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)# ipv6 nd other-config-flag
```

### ipv6 nd other-config-flag

**Description:** Use stateful auto-configuration to obtain NON-address information

**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)# ipv6 nd other-config-flag
```

# ipv6 nd policy

**ipv6 nd policy** <WORD>

**Description:** Associate the BD with an IPv6 Neighbor Discovery policy

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the policy to associate (Max Size 64) |
|-------------|---|

**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)# ipv6 nd policy <WORD>
```

# ipv6 nd prefix

**ipv6 nd prefix** <A:B::C:D/LEN> <NUMBER> <NUMBER> [no-autoconfig] [no-onlink] [router-address]

**Description:** Advertise in Neighbor Discover a Prefix and configure the parameters

**Syntax:**

|                |   |
|----------------|---|
| A:B::C:D/LEN   | IPv6 prefix format: xxxx:xxxx/ml, xxxx:xxxx::/ml, xxxx::xx/128                      |
| <0-4294967295> | Lifetime to advertise for the prefix, in seconds. Number range from=0 to=4294967295 |
| <0-4294967295> | Preferred lifetime to advertise, in seconds. Number range from=0 to=4294967295      |
| no-autoconfig  | (Optional) advertise with A bit clear   |
| no-onlink      | (Optional) advertise with L bit clear   |
| router-address | (Optional) Set this prefix as usable as default gateway by the hosts                |

**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)# ipv6 nd prefix <A:B::C:D/LEN> <NUMBER> <NUMBER> [no-autoconfig]
[no-onlink] [router-address]
```

**ipv6 nd prefix** <NUMBER> <NUMBER> [no-autoconfig] [no-onlink] [router-address]

**Description:** Advertise in Neighbor Discover a Prefix and configure the parameters

**Syntax:**

|                |  |
|----------------|--|
| <0-4294967295> | Lifetime to advertise for the prefix, in milliseconds. Number range from=0 to=4294967295 |
| <0-4294967295> | Preferred lifetime to advertise, in milliseconds. Number range from=0 to=4294967295      |
| no-autoconfig  | (Optional) advertise with A bit clear  |
| no-onlink      | (Optional) advertise with L bit clear  |
| router-address | (Optional) Set this prefix as usable as default gateway by the hosts                     |

**Command Mode:** template ipv6 nd prefix : Create/modify an an IPv6 Neighbor Prefix policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template ipv6 nd prefix policy <WORD>
(config-tenant-template-ipv6-nd-pfx)# ipv6 nd prefix <NUMBER> <NUMBER> [no-autoconfig]
[no-onlink] [router-address]
```

**ipv6 nd prefix <WORD> <NUMBER> <NUMBER> [no-autoconfig] [no-onlink] [router-address]**

**Description:** Advertise in Neighbor Discover a Prefix and configure the parameters

**Syntax:**

| WORD           | WORD  |
|----------------|---|
| <0-4294967295> | Lifetime to advertise for the prefix, in seconds. Number range from=0 to=4294967295 |
| <0-4294967295> | Preferred lifetime to advertise, in seconds. Number range from=0 to=4294967295      |
| no-autoconfig  | (Optional) advertise with A bit clear   |
| no-onlink      | (Optional) advertise with L bit clear   |
| router-address | (Optional) Set this prefix as usable as default gateway by the hosts                |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# ipv6 nd prefix <WORD> <NUMBER> <NUMBER> [no-autoconfig] [no-onlink]
[router-address]
```

**ipv6 nd prefix <WORD> <NUMBER> <NUMBER> [no-autoconfig] [no-onlink] [router-address]**

**Description:** Advertise in Neighbor Discover a Prefix and configure the parameters

**Syntax:**

| WORD           | WORD  |
|----------------|---|
| <0-4294967295> | Lifetime to advertise for the prefix, in seconds. Number range from=0 to=4294967295 |
| <0-4294967295> | Preferred lifetime to advertise, in seconds. Number range from=0 to=4294967295      |
| no-autoconfig  | (Optional) advertise with A bit clear   |
| no-onlink      | (Optional) advertise with L bit clear   |
| router-address | (Optional) Set this prefix as usable as default gateway by the hosts                |

**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)# ipv6 nd prefix <WORD> <NUMBER> <NUMBER> [no-autoconfig] [no-onlink]
[router-address]
```

**ipv6 nd prefix <WORD> <NUMBER> <NUMBER> [no-autoconfig] [no-onlink] [router-address]**

**Description:** Advertise in Neighbor Discover a Prefix and configure the parameters

**Syntax:**

|                |   |
|----------------|---|
| <i>WORD</i>    | WORD  |
| <0-4294967295> | Lifetime to advertise for the prefix, in seconds. Number range from=0 to=4294967295 |
| <0-4294967295> | Preferred lifetime to advertise, in seconds. Number range from=0 to=4294967295      |
| no-autoconfig  | (Optional) advertise with A bit clear   |
| no-onlink      | (Optional) advertise with L bit clear   |
| router-address | (Optional) Set this prefix as usable as default gateway by the hosts                |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# ipv6 nd prefix <WORD> <NUMBER> <NUMBER> [no-autoconfig] [no-onlink]
[router-address]
```

**ipv6 nd prefix <WORD> <NUMBER> <NUMBER> [no-autoconfig] [no-onlink] [router-address]**

**Description:** Advertise in Neighbor Discover a Prefix and configure the parameters

**Syntax:**

|                |   |
|----------------|---|
| <i>WORD</i>    | WORD  |
| <0-4294967295> | Lifetime to advertise for the prefix, in seconds. Number range from=0 to=4294967295 |
| <0-4294967295> | Preferred lifetime to advertise, in seconds. Number range from=0 to=4294967295      |
| no-autoconfig  | (Optional) advertise with A bit clear   |

|                |  |
|----------------|--|
| no-onlink      | (Optional) advertise with L bit clear                                |
| router-address | (Optional) Set this prefix as usable as default gateway by the hosts |

**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)# ipv6 nd prefix <WORD> <NUMBER> <NUMBER> [no-autoconfig] [no-onlink]
[router-address]
```



# ipv6 nd ra-interval

## ipv6 nd ra-interval <NUMBER>

**Description:** Set the interval between sending ICMPv6 router advertisement messages

**Syntax:**

|            |  |
|------------|--|
| <200-1800> | Interval in seconds. Number range from=200 to=1800 |
|------------|--|

**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)# ipv6 nd ra-interval <NUMBER>
```

## ipv6 nd ra-interval <NUMBER>

**Description:** Set the interval between sending ICMPv6 router advertisement messages

**Syntax:**

|            |  |
|------------|--|
| <200-1800> | Interval in seconds. Number range from=200 to=1800 |
|------------|--|

**Command Mode:** template ipv6 nd policy : Create/modify an an IPv6 Neighbor Discovery policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template ipv6 nd policy <WORD>
(config-tenant-template-ipv6-nd)# ipv6 nd ra-interval <NUMBER>
```

## ipv6 nd ra-interval <NUMBER>

**Description:** Set the interval between sending ICMPv6 router advertisement messages

**Syntax:**

|            |  |
|------------|--|
| <200-1800> | Interval in seconds. Number range from=200 to=1800 |
|------------|--|

**Command Mode:** template ipv6 nd policy : Configure IPv6 Neighbor Discovery policy templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template ipv6 nd policy <WORD> tenant <WORD>
(config-template-nd-pol)# ipv6 nd ra-interval <NUMBER>
```

**ipv6 nd ra-interval <NUMBER>****Description:** Set the interval between sending ICMPv6 router advertisement messages**Syntax:**

|            |  |
|------------|--|
| <200-1800> | Interval in seconds. Number range from=200 to=1800 |
|------------|--|

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

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# ipv6 nd ra-interval <NUMBER>
```

**ipv6 nd ra-interval <NUMBER>****Description:** Set the interval between sending ICMPv6 router advertisement messages**Syntax:**

|            |  |
|------------|--|
| <200-1800> | Interval in seconds. Number range from=200 to=1800 |
|------------|--|

**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)# ipv6 nd ra-interval <NUMBER>
```

**ipv6 nd ra-interval <NUMBER>****Description:** Set the interval between sending ICMPv6 router advertisement messages**Syntax:**

|            |  |
|------------|--|
| <200-1800> | Interval in seconds. Number range from=200 to=1800 |
|------------|--|

**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)# ipv6 nd ra-interval <NUMBER>
```

**ipv6 nd ra-interval <NUMBER>****Description:** Set the interval between sending ICMPv6 router advertisement messages**Syntax:**

|            |  |
|------------|--|
| <200-1800> | Interval in seconds. Number range from=200 to=1800 |
|------------|--|

**Command Mode:** template ipv6 nd policy : Configure IPv6 Neighbor Discovery policy templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# template ipv6 nd policy <WORD> tenant <WORD>
(config-template-nd-pol)# ipv6 nd ra-interval <NUMBER>
```

**ipv6 nd ra-interval <NUMBER>**

**Description:** Set the interval between sending ICMPv6 router advertisement messages

**Syntax:**

|            |  |
|------------|--|
| <200-1800> | Interval in seconds. Number range from=200 to=1800 |
|------------|--|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# ipv6 nd ra-interval <NUMBER>
```

**ipv6 nd ra-interval <NUMBER>**

**Description:** Set the interval between sending ICMPv6 router advertisement messages

**Syntax:**

|            |  |
|------------|--|
| <200-1800> | Interval in seconds. Number range from=200 to=1800 |
|------------|--|

**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)# ipv6 nd ra-interval <NUMBER>
```

**ipv6 nd ra-interval <NUMBER>**

**Description:** Set the interval between sending ICMPv6 router advertisement messages

**Syntax:**

|            |  |
|------------|--|
| <200-1800> | Interval in seconds. Number range from=200 to=1800 |
|------------|--|

**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)# ipv6 nd ra-interval <NUMBER>
```

# ipv6 nd ra-lifetime

## ipv6 nd ra-lifetime <NUMBER>

**Description:** Set the router lifetime of a default router in ICMPv6 router advertisement messages

**Syntax:**

|          |  |
|----------|--|
| <0-9000> | Lifetime in seconds. Number range from=0 to=9000 |
|----------|--|

**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)# ipv6 nd ra-lifetime <NUMBER>
```

## ipv6 nd ra-lifetime <NUMBER>

**Description:** Set the router lifetime of a default router in ICMPv6 router advertisement messages

**Syntax:**

|          |  |
|----------|--|
| <0-9000> | Lifetime in seconds. Number range from=0 to=9000 |
|----------|--|

**Command Mode:** template ipv6 nd policy : Create/modify an an IPv6 Neighbor Discovery policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template ipv6 nd policy <WORD>
(config-tenant-template-ipv6-nd)# ipv6 nd ra-lifetime <NUMBER>
```

## ipv6 nd ra-lifetime <NUMBER>

**Description:** Set the router lifetime of a default router in ICMPv6 router advertisement messages

**Syntax:**

|          |  |
|----------|--|
| <0-9000> | Lifetime in seconds. Number range from=0 to=9000 |
|----------|--|

**Command Mode:** template ipv6 nd policy : Configure IPv6 Neighbor Discovery policy templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template ipv6 nd policy <WORD> tenant <WORD>
(config-template-nd-pol)# ipv6 nd ra-lifetime <NUMBER>
```

**ipv6 nd ra-lifetime <NUMBER>****Description:** Set the router lifetime of a default router in ICMPv6 router advertisement messages**Syntax:**

|          |  |
|----------|--|
| <0-9000> | Lifetime in seconds. Number range from=0 to=9000 |
|----------|--|

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

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# ipv6 nd ra-lifetime <NUMBER>
```

**ipv6 nd ra-lifetime <NUMBER>****Description:** Set the router lifetime of a default router in ICMPv6 router advertisement messages**Syntax:**

|          |  |
|----------|--|
| <0-9000> | Lifetime in seconds. Number range from=0 to=9000 |
|----------|--|

**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)# ipv6 nd ra-lifetime <NUMBER>
```

**ipv6 nd ra-lifetime <NUMBER>****Description:** Set the router lifetime of a default router in ICMPv6 router advertisement messages**Syntax:**

|          |  |
|----------|--|
| <0-9000> | Lifetime in seconds. Number range from=0 to=9000 |
|----------|--|

**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)# ipv6 nd ra-lifetime <NUMBER>
```

**ipv6 nd ra-lifetime <NUMBER>****Description:** Set the router lifetime of a default router in ICMPv6 router advertisement messages**Syntax:**

|          |  |
|----------|--|
| <0-9000> | Lifetime in seconds. Number range from=0 to=9000 |
|----------|--|

**Command Mode:** template ipv6 nd policy : Configure IPv6 Neighbor Discovery policy templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# template ipv6 nd policy <WORD> tenant <WORD>
(config-template-nd-pol)# ipv6 nd ra-lifetime <NUMBER>
```

**ipv6 nd ra-lifetime <NUMBER>**

**Description:** Set the router lifetime of a default router in ICMPv6 router advertisement messages

**Syntax:**

|          |  |
|----------|--|
| <0-9000> | Lifetime in seconds. Number range from=0 to=9000 |
|----------|--|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# ipv6 nd ra-lifetime <NUMBER>
```

**ipv6 nd ra-lifetime <NUMBER>**

**Description:** Set the router lifetime of a default router in ICMPv6 router advertisement messages

**Syntax:**

|          |  |
|----------|--|
| <0-9000> | Lifetime in seconds. Number range from=0 to=9000 |
|----------|--|

**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)# ipv6 nd ra-lifetime <NUMBER>
```

**ipv6 nd ra-lifetime <NUMBER>**

**Description:** Set the router lifetime of a default router in ICMPv6 router advertisement messages

**Syntax:**

|          |  |
|----------|--|
| <0-9000> | Lifetime in seconds. Number range from=0 to=9000 |
|----------|--|

**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)# ipv6 nd ra-lifetime <NUMBER>
```



# ipv6 nd reachable-time

## ipv6 nd reachable-time <NUMBER>

**Description:** Set the time for reachability confirmation in ICMPv6 router advertisement messages

**Syntax:**

|             |  |
|-------------|--|
| <0-3600000> | Reachable timer in seconds. Number range from=0 to=3600000 |
|-------------|--|

**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)# ipv6 nd reachable-time <NUMBER>
```

## ipv6 nd reachable-time <NUMBER>

**Description:** Set the time for reachability confirmation in ICMPv6 router advertisement messages

**Syntax:**

|             |   |
|-------------|---|
| <0-3600000> | Reachable timer in milliseconds. Number range from=0 to=3600000 |
|-------------|---|

**Command Mode:** template ipv6 nd policy : Create/modify an an IPv6 Neighbor Discovery policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template ipv6 nd policy <WORD>
(config-tenant-template-ipv6-nd)# ipv6 nd reachable-time <NUMBER>
```

## ipv6 nd reachable-time <NUMBER>

**Description:** Set the time for reachability confirmation in ICMPv6 router advertisement messages

**Syntax:**

|             |   |
|-------------|---|
| <0-3600000> | Reachable timer in milliseconds. Number range from=0 to=3600000 |
|-------------|---|

**Command Mode:** template ipv6 nd policy : Configure IPv6 Neighbor Discovery policy templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template ipv6 nd policy <WORD> tenant <WORD>
(config-template-nd-pol)# ipv6 nd reachable-time <NUMBER>
```

**ipv6 nd reachable-time <NUMBER>****Description:** Set the time for reachability confirmation in ICMPv6 router advertisement messages**Syntax:**

|             |   |
|-------------|---|
| <0-3600000> | Reachable timer in milliseconds. Number range from=0 to=3600000 |
|-------------|---|

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

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# ipv6 nd reachable-time <NUMBER>
```

**ipv6 nd reachable-time <NUMBER>****Description:** Set the time for reachability confirmation in ICMPv6 router advertisement messages**Syntax:**

|             |   |
|-------------|---|
| <0-3600000> | Reachable timer in milliseconds. Number range from=0 to=3600000 |
|-------------|---|

**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)# ipv6 nd reachable-time <NUMBER>
```

**ipv6 nd reachable-time <NUMBER>****Description:** Set the time for reachability confirmation in ICMPv6 router advertisement messages**Syntax:**

|             |   |
|-------------|---|
| <0-3600000> | Reachable timer in milliseconds. Number range from=0 to=3600000 |
|-------------|---|

**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)# ipv6 nd reachable-time <NUMBER>
```

**ipv6 nd reachable-time <NUMBER>****Description:** Set the time for reachability confirmation in ICMPv6 router advertisement messages**Syntax:**

|             |   |
|-------------|---|
| <0-3600000> | Reachable timer in milliseconds. Number range from=0 to=3600000 |
|-------------|---|

**Command Mode:** template ipv6 nd policy : Configure IPv6 Neighbor Discovery policy templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# template ipv6 nd policy <WORD> tenant <WORD>
(config-template-nd-pol)# ipv6 nd reachable-time <NUMBER>
```

**ipv6 nd reachable-time <NUMBER>**

**Description:** Set the time for reachability confirmation in ICMPv6 router advertisement messages

**Syntax:**

|             |   |
|-------------|---|
| <0-3600000> | Reachable timer in milliseconds. Number range from=0 to=3600000 |
|-------------|---|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# ipv6 nd reachable-time <NUMBER>
```

**ipv6 nd reachable-time <NUMBER>**

**Description:** Set the time for reachability confirmation in ICMPv6 router advertisement messages

**Syntax:**

|             |   |
|-------------|---|
| <0-3600000> | Reachable timer in milliseconds. Number range from=0 to=3600000 |
|-------------|---|

**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)# ipv6 nd reachable-time <NUMBER>
```

**ipv6 nd reachable-time <NUMBER>**

**Description:** Set the time for reachability confirmation in ICMPv6 router advertisement messages

**Syntax:**

|             |   |
|-------------|---|
| <0-3600000> | Reachable timer in milliseconds. Number range from=0 to=3600000 |
|-------------|---|

**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)# ipv6 nd reachable-time <NUMBER>
```

# ipv6 nd retrans-timer

## ipv6 nd retrans-timer <NUMBER>

**Description:** Set the time between neighbor solicitation (NS) messages in ICMPv6 router advertisement

**Syntax:**

|                |   |
|----------------|---|
| <0-4294967295> | Retransmit timer, in seconds. Number range from=0 to=4294967295 |
|----------------|---|

**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)# ipv6 nd retrans-timer <NUMBER>
```

## ipv6 nd retrans-timer <NUMBER>

**Description:** Set the time between neighbor solicitation (NS) messages in ICMPv6 router advertisement

**Syntax:**

|                |   |
|----------------|---|
| <0-4294967295> | Retransmit timer in milliseconds. Number range from=0 to=4294967295 |
|----------------|---|

**Command Mode:** template ipv6 nd policy : Create/modify an an IPv6 Neighbor Discovery policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template ipv6 nd policy <WORD>
(config-tenant-template-ipv6-nd)# ipv6 nd retrans-timer <NUMBER>
```

## ipv6 nd retrans-timer <NUMBER>

**Description:** Set the time between neighbor solicitation (NS) messages in ICMPv6 router advertisement

**Syntax:**

|                |   |
|----------------|---|
| <0-4294967295> | Retransmit timer in milliseconds. Number range from=0 to=4294967295 |
|----------------|---|

**Command Mode:** template ipv6 nd policy : Configure IPv6 Neighbor Discovery policy templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template ipv6 nd policy <WORD> tenant <WORD>
(config-template-nd-pol)# ipv6 nd retrans-timer <NUMBER>
```

**ipv6 nd retrans-timer <NUMBER>****Description:** Set the time between neighbor solicitation (NS) messages in ICMPv6 router advertisement**Syntax:**

|                |   |
|----------------|---|
| <0-4294967295> | Retransmit timer in milliseconds. Number range from=0 to=4294967295 |
|----------------|---|

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

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# ipv6 nd retrans-timer <NUMBER>
```

**ipv6 nd retrans-timer <NUMBER>****Description:** Set the time between neighbor solicitation (NS) messages in ICMPv6 router advertisement**Syntax:**

|                |   |
|----------------|---|
| <0-4294967295> | Retransmit timer in milliseconds. Number range from=0 to=4294967295 |
|----------------|---|

**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)# ipv6 nd retrans-timer <NUMBER>
```

**ipv6 nd retrans-timer <NUMBER>****Description:** Set the time between neighbor solicitation (NS) messages in ICMPv6 router advertisement**Syntax:**

|                |   |
|----------------|---|
| <0-4294967295> | Retransmit timer in milliseconds. Number range from=0 to=4294967295 |
|----------------|---|

**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)# ipv6 nd retrans-timer <NUMBER>
```

**ipv6 nd retrans-timer <NUMBER>****Description:** Set the time between neighbor solicitation (NS) messages in ICMPv6 router advertisement**Syntax:**

|                |   |
|----------------|---|
| <0-4294967295> | Retransmit timer in milliseconds. Number range from=0 to=4294967295 |
|----------------|---|

**Command Mode:** template ipv6 nd policy : Configure IPv6 Neighbor Discovery policy templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# template ipv6 nd policy <WORD> tenant <WORD>
(config-template-nd-pol)# ipv6 nd retrans-timer <NUMBER>
```

**ipv6 nd retrans-timer <NUMBER>**

**Description:** Set the time between neighbor solicitation (NS) messages in ICMPv6 router advertisement

**Syntax:**

|                |   |
|----------------|---|
| <0-4294967295> | Retransmit timer in milliseconds. Number range from=0 to=4294967295 |
|----------------|---|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# ipv6 nd retrans-timer <NUMBER>
```

**ipv6 nd retrans-timer <NUMBER>**

**Description:** Set the time between neighbor solicitation (NS) messages in ICMPv6 router advertisement

**Syntax:**

|                |   |
|----------------|---|
| <0-4294967295> | Retransmit timer in milliseconds. Number range from=0 to=4294967295 |
|----------------|---|

**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)# ipv6 nd retrans-timer <NUMBER>
```

**ipv6 nd retrans-timer <NUMBER>**

**Description:** Set the time between neighbor solicitation (NS) messages in ICMPv6 router advertisement

**Syntax:**

|                |   |
|----------------|---|
| <0-4294967295> | Retransmit timer in milliseconds. Number range from=0 to=4294967295 |
|----------------|---|

**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)# ipv6 nd retrans-timer <NUMBER>
```



# ipv6 nd suppress-ra-mtu

## ipv6 nd suppress-ra-mtu

**Description:** Disable sending MTU option in ICMPv6 router advertisement messages

**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)# ipv6 nd suppress-ra-mtu
```

## ipv6 nd suppress-ra-mtu

**Description:** Disable sending MTU option in ICMPv6 router advertisement messages

**Command Mode:** template ipv6 nd policy : Create/modify an an IPv6 Neighbor Discovery policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template ipv6 nd policy <WORD>
(config-tenant-template-ipv6-nd)# ipv6 nd suppress-ra-mtu
```

## ipv6 nd suppress-ra-mtu

**Description:** Disable sending MTU option in ICMPv6 router advertisement messages

**Command Mode:** template ipv6 nd policy : Configure IPv6 Neighbor Discovery policy templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template ipv6 nd policy <WORD> tenant <WORD>
(config-template-nd-pol)# ipv6 nd suppress-ra-mtu
```

## ipv6 nd suppress-ra-mtu

**Description:** Disable sending MTU option in ICMPv6 router advertisement messages

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# ipv6 nd suppress-ra-mtu
```

**ipv6 nd suppress-ra-mtu****Description:** Disable sending MTU option in ICMPv6 router advertisement messages**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)# ipv6 nd suppress-ra-mtu
```

**ipv6 nd suppress-ra-mtu****Description:** Disable sending MTU option in ICMPv6 router advertisement messages**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)# ipv6 nd suppress-ra-mtu
```

**ipv6 nd suppress-ra-mtu****Description:** Disable sending MTU option in ICMPv6 router advertisement messages**Command Mode:** template ipv6 nd policy : Configure IPv6 Neighbor Discovery policy templates**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# template ipv6 nd policy <WORD> tenant <WORD>
(config-template-nd-pol)# ipv6 nd suppress-ra-mtu
```

**ipv6 nd suppress-ra-mtu****Description:** Disable sending MTU option in ICMPv6 router advertisement messages**Command Mode:** interface vlan : Vlan interface**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# ipv6 nd suppress-ra-mtu
```

**ipv6 nd suppress-ra-mtu****Description:** Disable sending MTU option in ICMPv6 router advertisement messages

**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)# ipv6 nd suppress-ra-mtu
```

### ipv6 nd suppress-ra-mtu

**Description:** Disable sending MTU option in ICMPv6 router advertisement messages

**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)# ipv6 nd suppress-ra-mtu
```

# ipv6 nd suppress-ra

## ipv6 nd suppress-ra

**Description:** Disable sending ICMPv6 router advertisement messages

**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)# ipv6 nd suppress-ra
```

## ipv6 nd suppress-ra

**Description:** Disable sending ICMPv6 router advertisement messages

**Command Mode:** template ipv6 nd policy : Create/modify an an IPv6 Neighbor Discovery policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template ipv6 nd policy <WORD>
(config-tenant-template-ipv6-nd)# ipv6 nd suppress-ra
```

## ipv6 nd suppress-ra

**Description:** Disable sending ICMPv6 router advertisement messages

**Command Mode:** template ipv6 nd policy : Configure IPv6 Neighbor Discovery policy templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template ipv6 nd policy <WORD> tenant <WORD>
(config-template-nd-pol)# ipv6 nd suppress-ra
```

## ipv6 nd suppress-ra

**Description:** Disable sending ICMPv6 router advertisement messages

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# ipv6 nd suppress-ra
```

**ipv6 nd suppress-ra**

**Description:** Disable sending ICMPv6 router advertisement messages

**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)# ipv6 nd suppress-ra
```

**ipv6 nd suppress-ra**

**Description:** Disable sending ICMPv6 router advertisement messages

**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)# ipv6 nd suppress-ra
```

**ipv6 nd suppress-ra**

**Description:** Disable sending ICMPv6 router advertisement messages

**Command Mode:** template ipv6 nd policy : Configure IPv6 Neighbor Discovery policy templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# template ipv6 nd policy <WORD> tenant <WORD>
(config-template-nd-pol)# ipv6 nd suppress-ra
```

**ipv6 nd suppress-ra**

**Description:** Disable sending ICMPv6 router advertisement messages

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# ipv6 nd suppress-ra
```

**ipv6 nd suppress-ra**

**Description:** Disable sending ICMPv6 router advertisement messages

**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)# ipv6 nd suppress-ra
```

### ipv6 nd suppress-ra

**Description:** Disable sending ICMPv6 router advertisement messages

**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)# ipv6 nd suppress-ra
```

# ipv6 next-hop-self

## ipv6 next-hop-self eigrp default

**Description:** Set EIGRP next-hop-self flag

**Syntax:**

|         |                        |
|---------|------------------------|
| eigrp   | EIGRP                  |
| default | EIGRP default instance |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# ipv6 next-hop-self eigrp default
```

## ipv6 next-hop-self eigrp default

**Description:** Set EIGRP next-hop-self flag

**Syntax:**

|         |                        |
|---------|------------------------|
| eigrp   | EIGRP                  |
| default | EIGRP default instance |

**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)# ipv6 next-hop-self eigrp default
```

## ipv6 next-hop-self eigrp default

**Description:** Set EIGRP next-hop-self flag

**Syntax:**

|         |                        |
|---------|------------------------|
| eigrp   | EIGRP                  |
| default | EIGRP default instance |

**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)# ipv6 next-hop-self eigrp default
```

**ipv6 next-hop-self eigrp default**

**Description:** Set EIGRP next-hop-self flag

**Syntax:**

|         |                        |
|---------|------------------------|
| eigrp   | EIGRP                  |
| default | EIGRP default instance |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# ipv6 next-hop-self eigrp default
```

**ipv6 next-hop-self eigrp default**

**Description:** Set EIGRP next-hop-self flag

**Syntax:**

|         |                        |
|---------|------------------------|
| eigrp   | EIGRP                  |
| default | EIGRP default instance |

**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)# ipv6 next-hop-self eigrp default
```

**ipv6 next-hop-self eigrp default**

**Description:** Set EIGRP next-hop-self flag

**Syntax:**

|         |                        |
|---------|------------------------|
| eigrp   | EIGRP                  |
| default | EIGRP default instance |

**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)# ipv6 next-hop-self eigrp default
```

# ipv6 ospf bfd

## ipv6 ospf bfd enable

**Description:** Enable Bidirectional Forwarding Detection

**Syntax:**

|        |            |
|--------|------------|
| enable | Enable BFD |
|--------|------------|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# ipv6 ospf bfd enable
```

## ipv6 ospf bfd enable

**Description:** Enable Bidirectional Forwarding Detection

**Syntax:**

|        |            |
|--------|------------|
| enable | Enable BFD |
|--------|------------|

**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)# ipv6 ospf bfd enable
```

## ipv6 ospf bfd enable

**Description:** Enable Bidirectional Forwarding Detection

**Syntax:**

|        |            |
|--------|------------|
| enable | Enable BFD |
|--------|------------|

**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)# ipv6 ospf bfd enable
```

**ipv6 ospf bfd enable**

**Description:** Enable Bidirectional Forwarding Detection

**Syntax:**

|        |            |
|--------|------------|
| enable | Enable BFD |
|--------|------------|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# ipv6 ospf bfd enable
```

**ipv6 ospf bfd enable**

**Description:** Enable Bidirectional Forwarding Detection

**Syntax:**

|        |            |
|--------|------------|
| enable | Enable BFD |
|--------|------------|

**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)# ipv6 ospf bfd enable
```

**ipv6 ospf bfd enable**

**Description:** Enable Bidirectional Forwarding Detection

**Syntax:**

|        |            |
|--------|------------|
| enable | Enable BFD |
|--------|------------|

**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)# ipv6 ospf bfd enable
```

# ipv6 ospf cost

## ipv6 ospf cost <NUMBER>

**Description:** Set OSPF cost for the interface

**Syntax:**

|           |   |
|-----------|---|
| <0-65535> | OSPF cost. Number range from=0 to=65535 |
|-----------|---|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# ipv6 ospf cost <NUMBER>
```

## ipv6 ospf cost <NUMBER>

**Description:** Set OSPF cost for the interface

**Syntax:**

|           |   |
|-----------|---|
| <0-65535> | OSPF cost. Number range from=0 to=65535 |
|-----------|---|

**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)# ipv6 ospf cost <NUMBER>
```

## ipv6 ospf cost <NUMBER>

**Description:** Set OSPF cost for the interface

**Syntax:**

|           |   |
|-----------|---|
| <0-65535> | OSPF cost. Number range from=0 to=65535 |
|-----------|---|

**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)# ipv6 ospf cost <NUMBER>
```

**ipv6 ospf cost <NUMBER>**

**Description:** Set OSPF cost for the interface

**Syntax:**

|           |   |
|-----------|---|
| <0-65535> | OSPF cost. Number range from=0 to=65535 |
|-----------|---|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# ipv6 ospf cost <NUMBER>
```

**ipv6 ospf cost <NUMBER>**

**Description:** Set OSPF cost for the interface

**Syntax:**

|           |   |
|-----------|---|
| <0-65535> | OSPF cost. Number range from=0 to=65535 |
|-----------|---|

**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)# ipv6 ospf cost <NUMBER>
```

**ipv6 ospf cost <NUMBER>**

**Description:** Set OSPF cost for the interface

**Syntax:**

|           |   |
|-----------|---|
| <0-65535> | OSPF cost. Number range from=0 to=65535 |
|-----------|---|

**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)# ipv6 ospf cost <NUMBER>
```

# ipv6 ospf dead-interval

## ipv6 ospf dead-interval <NUMBER>

**Description:** Set the interval between hello packets from a neighbor before the router declares the neighbor as down

### Syntax:

|           |   |
|-----------|---|
| <1-65535> | Interval in seconds. Number range from=1 to=65535 |
|-----------|---|

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

### Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# ipv6 ospf dead-interval <NUMBER>
```

## ipv6 ospf dead-interval <NUMBER>

**Description:** Set the interval between hello packets from a neighbor before the router declares the neighbor as down

### Syntax:

|           |   |
|-----------|---|
| <1-65535> | Interval in seconds. Number range from=1 to=65535 |
|-----------|---|

**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)# ipv6 ospf dead-interval <NUMBER>
```

## ipv6 ospf dead-interval <NUMBER>

**Description:** Set the interval between hello packets from a neighbor before the router declares the neighbor as down

### Syntax:

|           |   |
|-----------|---|
| <1-65535> | Interval in seconds. Number range from=1 to=65535 |
|-----------|---|

**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)# ipv6 ospf dead-interval <NUMBER>
```

**ipv6 ospf dead-interval <NUMBER>**

**Description:** Set the interval between hello packets from a neighbor before the router declares the neighbor as down

**Syntax:**

|           |   |
|-----------|---|
| <1-65535> | Interval in seconds. Number range from=1 to=65535 |
|-----------|---|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# ipv6 ospf dead-interval <NUMBER>
```

**ipv6 ospf dead-interval <NUMBER>**

**Description:** Set the interval between hello packets from a neighbor before the router declares the neighbor as down

**Syntax:**

|           |   |
|-----------|---|
| <1-65535> | Interval in seconds. Number range from=1 to=65535 |
|-----------|---|

**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)# ipv6 ospf dead-interval <NUMBER>
```

**ipv6 ospf dead-interval <NUMBER>**

**Description:** Set the interval between hello packets from a neighbor before the router declares the neighbor as down

**Syntax:**

|           |   |
|-----------|---|
| <1-65535> | Interval in seconds. Number range from=1 to=65535 |
|-----------|---|

**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)# ipv6 ospf dead-interval <NUMBER>
```



# ipv6 ospf hello-interval

## ipv6 ospf hello-interval <NUMBER>

**Description:** Set interval between hello packets that OSPF sends on the interface

**Syntax:**

|           |   |
|-----------|---|
| <1-65535> | Interval in seconds. Number range from=1 to=65535 |
|-----------|---|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# ipv6 ospf hello-interval <NUMBER>
```

## ipv6 ospf hello-interval <NUMBER>

**Description:** Set interval between hello packets that OSPF sends on the interface

**Syntax:**

|           |   |
|-----------|---|
| <1-65535> | Interval in seconds. Number range from=1 to=65535 |
|-----------|---|

**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)# ipv6 ospf hello-interval <NUMBER>
```

## ipv6 ospf hello-interval <NUMBER>

**Description:** Set interval between hello packets that OSPF sends on the interface

**Syntax:**

|           |   |
|-----------|---|
| <1-65535> | Interval in seconds. Number range from=1 to=65535 |
|-----------|---|

**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)# ipv6 ospf hello-interval <NUMBER>
```

**ipv6 ospf hello-interval <NUMBER>****Description:** Set interval between hello packets that OSPF sends on the interface**Syntax:**

|           |   |
|-----------|---|
| <1-65535> | Interval in seconds. Number range from=1 to=65535 |
|-----------|---|

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

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# ipv6 ospf hello-interval <NUMBER>
```

**ipv6 ospf hello-interval <NUMBER>****Description:** Set interval between hello packets that OSPF sends on the interface**Syntax:**

|           |   |
|-----------|---|
| <1-65535> | Interval in seconds. Number range from=1 to=65535 |
|-----------|---|

**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)# ipv6 ospf hello-interval <NUMBER>
```

**ipv6 ospf hello-interval <NUMBER>****Description:** Set interval between hello packets that OSPF sends on the interface**Syntax:**

|           |   |
|-----------|---|
| <1-65535> | Interval in seconds. Number range from=1 to=65535 |
|-----------|---|

**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)# ipv6 ospf hello-interval <NUMBER>
```

# ipv6 ospf inherit

## ipv6 ospf inherit interface-policy <WORD>

**Description:** Inherit OSPF Template Policy under this VRF

**Syntax:**

|                  |   |
|------------------|---|
| interface-policy | Inherit OSPF interface-policy           |
| WORD             | OSPF Template Policy name (Max Size 64) |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# ipv6 ospf inherit interface-policy <WORD>
```

## ipv6 ospf inherit interface-policy <WORD>

**Description:** Inherit OSPF Template Policy under this VRF

**Syntax:**

|                  |   |
|------------------|---|
| interface-policy | Inherit OSPF interface-policy           |
| WORD             | OSPF Template Policy name (Max Size 64) |

**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)# ipv6 ospf inherit interface-policy <WORD>
```

## ipv6 ospf inherit interface-policy <WORD>

**Description:** Inherit OSPF Template Policy under this VRF

**Syntax:**

|                  |   |
|------------------|---|
| interface-policy | Inherit OSPF interface-policy           |
| WORD             | OSPF Template Policy name (Max Size 64) |

**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)# ipv6 ospf inherit interface-policy <WORD>
```

**ipv6 ospf inherit interface-policy <WORD>**

**Description:** Inherit OSPF Template Policy under this VRF

**Syntax:**

|                  |   |
|------------------|---|
| interface-policy | Inherit OSPF interface-policy           |
| <i>WORD</i>      | OSPF Template Policy name (Max Size 64) |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# ipv6 ospf inherit interface-policy <WORD>
```

**ipv6 ospf inherit interface-policy <WORD>**

**Description:** Inherit OSPF Template Policy under this VRF

**Syntax:**

|                  |   |
|------------------|---|
| interface-policy | Inherit OSPF interface-policy           |
| <i>WORD</i>      | OSPF Template Policy name (Max Size 64) |

**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)# ipv6 ospf inherit interface-policy <WORD>
```

**ipv6 ospf inherit interface-policy <WORD>**

**Description:** Inherit OSPF Template Policy under this VRF

**Syntax:**

|                  |   |
|------------------|---|
| interface-policy | Inherit OSPF interface-policy           |
| <i>WORD</i>      | OSPF Template Policy name (Max Size 64) |

**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)# ipv6 ospf inherit interface-policy <WORD>
```

# ipv6 ospf mtu-ignore

## ipv6 ospf mtu-ignore

**Description:** Set OSPF Interface Policy Controls

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# ipv6 ospf mtu-ignore
```

## ipv6 ospf mtu-ignore

**Description:** Set OSPF Interface Policy Controls

**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)# ipv6 ospf mtu-ignore
```

## ipv6 ospf mtu-ignore

**Description:** Set OSPF Interface Policy Controls

**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)# ipv6 ospf mtu-ignore
```

## ipv6 ospf mtu-ignore

**Description:** Set OSPF Interface Policy Controls

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# ipv6 ospf mtu-ignore
```

**ipv6 ospf mtu-ignore**

**Description:** Set OSPF Interface Policy Controls

**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)# ipv6 ospf mtu-ignore
```

**ipv6 ospf mtu-ignore**

**Description:** Set OSPF Interface Policy Controls

**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)# ipv6 ospf mtu-ignore
```

# ipv6 ospf network

## ipv6 ospf network bcast|p2p|unspecified

**Description:** Set OSPF interface policy network type

**Syntax:**

|                    |   |
|--------------------|---|
| <i>bcast</i>       | The OSPF interface policy network type. OSPF supports point-to-point and broadcast. |
| <i>p2p</i>         | The OSPF interface policy network type. OSPF supports point-to-point and broadcast. |
| <i>unspecified</i> | The OSPF interface policy network type. OSPF supports point-to-point and broadcast. |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# ipv6 ospf network bcast|p2p|unspecified
```

## ipv6 ospf network bcast|p2p|unspecified

**Description:** Set OSPF interface policy network type

**Syntax:**

|                    |   |
|--------------------|---|
| <i>bcast</i>       | The OSPF interface policy network type. OSPF supports point-to-point and broadcast. |
| <i>p2p</i>         | The OSPF interface policy network type. OSPF supports point-to-point and broadcast. |
| <i>unspecified</i> | The OSPF interface policy network type. OSPF supports point-to-point and broadcast. |

**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)# ipv6 ospf network bcast|p2p|unspecified
```

## ipv6 ospf network bcast|p2p|unspecified

**Description:** Set OSPF interface policy network type



**Syntax:**

|                    |   |
|--------------------|---|
| <i>bcast</i>       | The OSPF interface policy network type. OSPF supports point-to-point and broadcast. |
| <i>p2p</i>         | The OSPF interface policy network type. OSPF supports point-to-point and broadcast. |
| <i>unspecified</i> | The OSPF interface policy network type. OSPF supports point-to-point and broadcast. |

**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)# ipv6 ospf network bcast|p2p|unspecified
```

**ipv6 ospf network bcast|p2p|unspecified**

**Description:** Set OSPF interface policy network type

**Syntax:**

|                    |   |
|--------------------|---|
| <i>bcast</i>       | The OSPF interface policy network type. OSPF supports point-to-point and broadcast. |
| <i>p2p</i>         | The OSPF interface policy network type. OSPF supports point-to-point and broadcast. |
| <i>unspecified</i> | The OSPF interface policy network type. OSPF supports point-to-point and broadcast. |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# ipv6 ospf network bcast|p2p|unspecified
```

**ipv6 ospf network bcast|p2p|unspecified**

**Description:** Set OSPF interface policy network type

**Syntax:**

|              |   |
|--------------|---|
| <i>bcast</i> | The OSPF interface policy network type. OSPF supports point-to-point and broadcast. |
| <i>p2p</i>   | The OSPF interface policy network type. OSPF supports point-to-point and broadcast. |

|                    |   |
|--------------------|---|
| <i>unspecified</i> | The OSPF interface policy network type. OSPF supports point-to-point and broadcast. |
|--------------------|---|

**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)# ipv6 ospf network bcast|p2p|unspecified
```

**ipv6 ospf network bcast|p2p|unspecified**

**Description:** Set OSPF interface policy network type

**Syntax:**

|                    |   |
|--------------------|---|
| <i>bcast</i>       | The OSPF interface policy network type. OSPF supports point-to-point and broadcast. |
| <i>p2p</i>         | The OSPF interface policy network type. OSPF supports point-to-point and broadcast. |
| <i>unspecified</i> | The OSPF interface policy network type. OSPF supports point-to-point and broadcast. |

**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)# ipv6 ospf network bcast|p2p|unspecified
```

# ipv6 ospf passive-interface

## ipv6 ospf passive-interface

**Description:** Set OSPF Interface Policy Controls

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# ipv6 ospf passive-interface
```

## ipv6 ospf passive-interface

**Description:** Set OSPF Interface Policy Controls

**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)# ipv6 ospf passive-interface
```

## ipv6 ospf passive-interface

**Description:** Set OSPF Interface Policy Controls

**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)# ipv6 ospf passive-interface
```

## ipv6 ospf passive-interface

**Description:** Set OSPF Interface Policy Controls

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# ipv6 ospf passive-interface
```

**ipv6 ospf passive-interface**

**Description:** Set OSPF Interface Policy Controls

**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)# ipv6 ospf passive-interface
```

**ipv6 ospf passive-interface**

**Description:** Set OSPF Interface Policy Controls

**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)# ipv6 ospf passive-interface
```

# ipv6 ospf prefix-suppression

## ipv6 ospf prefix-suppression disable|enable|inherit

**Description:** Set prefix suppression

**Syntax:**

|                |  |
|----------------|--|
| <i>disable</i> | The OSPF interface prefix suppression. |
| <i>enable</i>  | The OSPF interface prefix suppression. |
| <i>inherit</i> | The OSPF interface prefix suppression. |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# ipv6 ospf prefix-suppression disable|enable|inherit
```

## ipv6 ospf prefix-suppression disable|enable|inherit

**Description:** Set prefix suppression

**Syntax:**

|                |  |
|----------------|--|
| <i>disable</i> | The OSPF interface prefix suppression. |
| <i>enable</i>  | The OSPF interface prefix suppression. |
| <i>inherit</i> | The OSPF interface prefix suppression. |

**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)# ipv6 ospf prefix-suppression disable|enable|inherit
```

## ipv6 ospf prefix-suppression disable|enable|inherit

**Description:** Set prefix suppression

**Syntax:**

|                |  |
|----------------|--|
| <i>disable</i> | The OSPF interface prefix suppression. |
| <i>enable</i>  | The OSPF interface prefix suppression. |

|                |  |
|----------------|--|
| <i>inherit</i> | The OSPF interface prefix suppression. |
|----------------|--|

**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)# ipv6 ospf prefix-suppression disable|enable|inherit
```

**ipv6 ospf prefix-suppression disable|enable|inherit**

**Description:** Set prefix suppression

**Syntax:**

|                |  |
|----------------|--|
| <i>disable</i> | The OSPF interface prefix suppression. |
| <i>enable</i>  | The OSPF interface prefix suppression. |
| <i>inherit</i> | The OSPF interface prefix suppression. |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# ipv6 ospf prefix-suppression disable|enable|inherit
```

**ipv6 ospf prefix-suppression disable|enable|inherit**

**Description:** Set prefix suppression

**Syntax:**

|                |  |
|----------------|--|
| <i>disable</i> | The OSPF interface prefix suppression. |
| <i>enable</i>  | The OSPF interface prefix suppression. |
| <i>inherit</i> | The OSPF interface prefix suppression. |

**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)# ipv6 ospf prefix-suppression disable|enable|inherit
```

**ipv6 ospf prefix-suppression disable|enable|inherit****Description:** Set prefix suppression**Syntax:**

|                |  |
|----------------|--|
| <i>disable</i> | The OSPF interface prefix suppression. |
| <i>enable</i>  | The OSPF interface prefix suppression. |
| <i>inherit</i> | The OSPF interface prefix suppression. |

**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)# ipv6 ospf prefix-suppression disable|enable|inherit
```

# ipv6 ospf priority

## ipv6 ospf priority <NUMBER>

**Description:** Set OSPF interface priority used to determine the designated router (DR) on a specific network

**Syntax:**

|         |   |
|---------|---|
| <0-255> | OSPF priority. Number range from=0 to=255 |
|---------|---|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# ipv6 ospf priority <NUMBER>
```

## ipv6 ospf priority <NUMBER>

**Description:** Set OSPF interface priority used to determine the designated router (DR) on a specific network

**Syntax:**

|         |   |
|---------|---|
| <0-255> | OSPF priority. Number range from=0 to=255 |
|---------|---|

**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)# ipv6 ospf priority <NUMBER>
```

## ipv6 ospf priority <NUMBER>

**Description:** Set OSPF interface priority used to determine the designated router (DR) on a specific network

**Syntax:**

|         |   |
|---------|---|
| <0-255> | OSPF priority. Number range from=0 to=255 |
|---------|---|

**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)# ipv6 ospf priority <NUMBER>
```



**ipv6 ospf priority <NUMBER>****Description:** Set OSPF interface priority used to determine the designated router (DR) on a specific network**Syntax:**

|         |   |
|---------|---|
| <0-255> | OSPF priority. Number range from=0 to=255 |
|---------|---|

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

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# ipv6 ospf priority <NUMBER>
```

**ipv6 ospf priority <NUMBER>****Description:** Set OSPF interface priority used to determine the designated router (DR) on a specific network**Syntax:**

|         |   |
|---------|---|
| <0-255> | OSPF priority. Number range from=0 to=255 |
|---------|---|

**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)# ipv6 ospf priority <NUMBER>
```

**ipv6 ospf priority <NUMBER>****Description:** Set OSPF interface priority used to determine the designated router (DR) on a specific network**Syntax:**

|         |   |
|---------|---|
| <0-255> | OSPF priority. Number range from=0 to=255 |
|---------|---|

**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)# ipv6 ospf priority <NUMBER>
```

# ipv6 ospf retransmit-interval

## ipv6 ospf retransmit-interval <NUMBER>

**Description:** Set OSPF Policy Graceful Restart Timers

**Syntax:**

|           |   |
|-----------|---|
| <1-65535> | Interval in seconds. Number range from=1 to=65535 |
|-----------|---|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# ipv6 ospf retransmit-interval <NUMBER>
```

## ipv6 ospf retransmit-interval <NUMBER>

**Description:** Set OSPF Policy Graceful Restart Timers

**Syntax:**

|           |   |
|-----------|---|
| <1-65535> | Interval in seconds. Number range from=1 to=65535 |
|-----------|---|

**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)# ipv6 ospf retransmit-interval <NUMBER>
```

## ipv6 ospf retransmit-interval <NUMBER>

**Description:** Set OSPF Policy Graceful Restart Timers

**Syntax:**

|           |   |
|-----------|---|
| <1-65535> | Interval in seconds. Number range from=1 to=65535 |
|-----------|---|

**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)# ipv6 ospf retransmit-interval <NUMBER>
```

**ipv6 ospf retransmit-interval <NUMBER>****Description:** Set OSPF Policy Graceful Restart Timers**Syntax:**

|           |   |
|-----------|---|
| <1-65535> | Interval in seconds. Number range from=1 to=65535 |
|-----------|---|

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

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# ipv6 ospf retransmit-interval <NUMBER>
```

**ipv6 ospf retransmit-interval <NUMBER>****Description:** Set OSPF Policy Graceful Restart Timers**Syntax:**

|           |   |
|-----------|---|
| <1-65535> | Interval in seconds. Number range from=1 to=65535 |
|-----------|---|

**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)# ipv6 ospf retransmit-interval <NUMBER>
```

**ipv6 ospf retransmit-interval <NUMBER>****Description:** Set OSPF Policy Graceful Restart Timers**Syntax:**

|           |   |
|-----------|---|
| <1-65535> | Interval in seconds. Number range from=1 to=65535 |
|-----------|---|

**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)# ipv6 ospf retransmit-interval <NUMBER>
```

# ipv6 ospf transmit-delay

## ipv6 ospf transmit-delay <NUMBER>

**Description:** Set the delay time needed to send an LSA update packet.

**Syntax:**

|         |  |
|---------|--|
| <1-450> | Delay in seconds. Number range from=1 to=450 |
|---------|--|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# ipv6 ospf transmit-delay <NUMBER>
```

## ipv6 ospf transmit-delay <NUMBER>

**Description:** Set the delay time needed to send an LSA update packet.

**Syntax:**

|         |  |
|---------|--|
| <1-450> | Delay in seconds. Number range from=1 to=450 |
|---------|--|

**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)# ipv6 ospf transmit-delay <NUMBER>
```

## ipv6 ospf transmit-delay <NUMBER>

**Description:** Set the delay time needed to send an LSA update packet.

**Syntax:**

|         |  |
|---------|--|
| <1-450> | Delay in seconds. Number range from=1 to=450 |
|---------|--|

**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)# ipv6 ospf transmit-delay <NUMBER>
```

**ipv6 ospf transmit-delay <NUMBER>****Description:** Set the delay time needed to send an LSA update packet.**Syntax:**

|         |  |
|---------|--|
| <1-450> | Delay in seconds. Number range from=1 to=450 |
|---------|--|

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

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# ipv6 ospf transmit-delay <NUMBER>
```

**ipv6 ospf transmit-delay <NUMBER>****Description:** Set the delay time needed to send an LSA update packet.**Syntax:**

|         |  |
|---------|--|
| <1-450> | Delay in seconds. Number range from=1 to=450 |
|---------|--|

**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)# ipv6 ospf transmit-delay <NUMBER>
```

**ipv6 ospf transmit-delay <NUMBER>****Description:** Set the delay time needed to send an LSA update packet.**Syntax:**

|         |  |
|---------|--|
| <1-450> | Delay in seconds. Number range from=1 to=450 |
|---------|--|

**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)# ipv6 ospf transmit-delay <NUMBER>
```

# ipv6 passive-interface

## ipv6 passive-interface eigrp default

**Description:** Set EIGRP passive-interface flag

**Syntax:**

|         |                        |
|---------|------------------------|
| eigrp   | EIGRP                  |
| default | EIGRP default instance |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# ipv6 passive-interface eigrp default
```

## ipv6 passive-interface eigrp default

**Description:** Set EIGRP passive-interface flag

**Syntax:**

|         |                        |
|---------|------------------------|
| eigrp   | EIGRP                  |
| default | EIGRP default instance |

**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)# ipv6 passive-interface eigrp default
```

## ipv6 passive-interface eigrp default

**Description:** Set EIGRP passive-interface flag

**Syntax:**

|         |                        |
|---------|------------------------|
| eigrp   | EIGRP                  |
| default | EIGRP default instance |

**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)# ipv6 passive-interface eigrp default
```

**ipv6 passive-interface eigrp default**

**Description:** Set EIGRP passive-interface flag

**Syntax:**

|         |                        |
|---------|------------------------|
| eigrp   | EIGRP                  |
| default | EIGRP default instance |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# ipv6 passive-interface eigrp default
```

**ipv6 passive-interface eigrp default**

**Description:** Set EIGRP passive-interface flag

**Syntax:**

|         |                        |
|---------|------------------------|
| eigrp   | EIGRP                  |
| default | EIGRP default instance |

**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)# ipv6 passive-interface eigrp default
```

**ipv6 passive-interface eigrp default**

**Description:** Set EIGRP passive-interface flag

**Syntax:**

|         |                        |
|---------|------------------------|
| eigrp   | EIGRP                  |
| default | EIGRP default instance |

**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)# ipv6 passive-interface eigrp default
```



# ipv6 router eigrp

## ipv6 router eigrp default

**Description:** Configure EIGRP default interface

**Syntax:**

|         |                        |
|---------|------------------------|
| default | EIGRP default instance |
|---------|------------------------|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# ipv6 router eigrp default
```

## ipv6 router eigrp default

**Description:** Configure EIGRP default interface

**Syntax:**

|         |                        |
|---------|------------------------|
| default | EIGRP default instance |
|---------|------------------------|

**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)# ipv6 router eigrp default
```

## ipv6 router eigrp default

**Description:** Configure EIGRP default interface

**Syntax:**

|         |                        |
|---------|------------------------|
| default | EIGRP default instance |
|---------|------------------------|

**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)# ipv6 router eigrp default
```

**ipv6 router eigrp default**

**Description:** Configure EIGRP default interface

**Syntax:**

|         |                        |
|---------|------------------------|
| default | EIGRP default instance |
|---------|------------------------|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# ipv6 router eigrp default
```

**ipv6 router eigrp default**

**Description:** Configure EIGRP default interface

**Syntax:**

|         |                        |
|---------|------------------------|
| default | EIGRP default instance |
|---------|------------------------|

**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)# ipv6 router eigrp default
```

**ipv6 router eigrp default**

**Description:** Configure EIGRP default interface

**Syntax:**

|         |                        |
|---------|------------------------|
| default | EIGRP default instance |
|---------|------------------------|

**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)# ipv6 router eigrp default
```

# ipv6 router ospf default

## ipv6 router ospf default area <A.B.C.D|NUMBER>

**Description:** Process tag

**Syntax:**

|                       |                                |
|-----------------------|--------------------------------|
| area                  | Area associated with interface |
| <i>A.B.C.D NUMBER</i> | OSPF area Id                   |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# ipv6 router ospf default area <A.B.C.D|NUMBER>
```

## ipv6 router ospf default area <A.B.C.D|NUMBER>

**Description:** Process tag

**Syntax:**

|                       |                                |
|-----------------------|--------------------------------|
| area                  | Area associated with interface |
| <i>A.B.C.D NUMBER</i> | OSPF area Id                   |

**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)# ipv6 router ospf default area <A.B.C.D|NUMBER>
```

## ipv6 router ospf default area <A.B.C.D|NUMBER>

**Description:** Process tag

**Syntax:**

|                       |                                |
|-----------------------|--------------------------------|
| area                  | Area associated with interface |
| <i>A.B.C.D NUMBER</i> | OSPF area Id                   |

**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)# ipv6 router ospf default area <A.B.C.D|NUMBER>
```

**ipv6 router ospf default area <A.B.C.D|NUMBER>**

**Description:** Process tag

**Syntax:**

|                       |                                |
|-----------------------|--------------------------------|
| area                  | Area associated with interface |
| <i>A.B.C.D NUMBER</i> | OSPF area Id                   |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# ipv6 router ospf default area <A.B.C.D|NUMBER>
```

**ipv6 router ospf default area <A.B.C.D|NUMBER>**

**Description:** Process tag

**Syntax:**

|                       |                                |
|-----------------------|--------------------------------|
| area                  | Area associated with interface |
| <i>A.B.C.D NUMBER</i> | OSPF area Id                   |

**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)# ipv6 router ospf default area <A.B.C.D|NUMBER>
```

**ipv6 router ospf default area <A.B.C.D|NUMBER>**

**Description:** Process tag

**Syntax:**

|                       |                                |
|-----------------------|--------------------------------|
| area                  | Area associated with interface |
| <i>A.B.C.D NUMBER</i> | OSPF area Id                   |

**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)# ipv6 router ospf default area <A.B.C.D|NUMBER>
```

## ipv6 shared address consumer

**ipv6 shared address <A:B::C:D/LEN> consumer application any epg any**

**Description:** Shared consumed service

**Syntax:**

|                     |  |
|---------------------|--|
| address             | IPv6 subnet  |
| <i>A:B::C:D/LEN</i> | IPv6 prefix format: xxxx:xxxx/ml, xxxx:xxxx::/ml, xxxx::xx/128 |
| application         | application keyword  |
| any                 | any application  |
| epg                 | epg keyword  |
| any                 | any EPG  |

**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)# ipv6 shared address <A:B::C:D/LEN> consumer application any epg
any
```

# ipv6 shared address provider

**ipv6 shared address** <A:B::C:D/LEN> provider application <WORD> epg <WORD> [scope <scope>]

**Description:** Shared provider service

**Syntax:**

|                     |  |
|---------------------|--|
| address             | IPv6 subnet  |
| <i>A:B::C:D/LEN</i> | IPv6 prefix format: xxxx:xxxx/ml, xxxx:xxxx::/ml, xxxx::xx/128 |
| application         | application keyword  |
| <i>WORD</i>         | Application Name (Max Size 64)                                 |
| epg                 | epg keyword  |
| <i>WORD</i>         | Application EPG (Max Size 64)                                  |
| <i>scope</i>        | (Optional) Scope of the address among ['public']               |

**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)# ipv6 shared address <A:B::C:D/LEN> provider application <WORD>
epg <WORD> [scope <scope>]
```

# ipv6 split-horizon

## ipv6 split-horizon eigrp default

**Description:** Set EIGRP split-horizon flag

**Syntax:**

|         |                        |
|---------|------------------------|
| eigrp   | EIGRP                  |
| default | EIGRP default instance |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# ipv6 split-horizon eigrp default
```

## ipv6 split-horizon eigrp default

**Description:** Set EIGRP split-horizon flag

**Syntax:**

|         |                        |
|---------|------------------------|
| eigrp   | EIGRP                  |
| default | EIGRP default instance |

**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)# ipv6 split-horizon eigrp default
```

## ipv6 split-horizon eigrp default

**Description:** Set EIGRP split-horizon flag

**Syntax:**

|         |                        |
|---------|------------------------|
| eigrp   | EIGRP                  |
| default | EIGRP default instance |

**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)# ipv6 split-horizon eigrp default
```

**ipv6 split-horizon eigrp default**

**Description:** Set EIGRP split-horizon flag

**Syntax:**

|         |                        |
|---------|------------------------|
| eigrp   | EIGRP                  |
| default | EIGRP default instance |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# ipv6 split-horizon eigrp default
```

**ipv6 split-horizon eigrp default**

**Description:** Set EIGRP split-horizon flag

**Syntax:**

|         |                        |
|---------|------------------------|
| eigrp   | EIGRP                  |
| default | EIGRP default instance |

**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)# ipv6 split-horizon eigrp default
```

**ipv6 split-horizon eigrp default**

**Description:** Set EIGRP split-horizon flag

**Syntax:**

|         |                        |
|---------|------------------------|
| eigrp   | EIGRP                  |
| default | EIGRP default instance |

**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)# ipv6 split-horizon eigrp default
```

# ipv6 summary-address eigrp

**ipv6 summary-address eigrp default <IP-PREFIX/LEN>**

**Description:** Configure route summarization for EIGRP

**Syntax:**

|                      |  |
|----------------------|--|
| default              | EIGRP default instance                         |
| <i>IP-PREFIX/LEN</i> | Summary IPV6 address (e.g. 2001:0DB8:0:1::/64) |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# ipv6 summary-address eigrp default <IP-PREFIX/LEN>
```

**ipv6 summary-address eigrp default <IP-PREFIX/LEN>**

**Description:** Configure route summarization for EIGRP

**Syntax:**

|                      |   |
|----------------------|---|
| default              | EIGRP default instance                            |
| <i>IP-PREFIX/LEN</i> | Summarized IPV6 address (e.g. 2001:0DB8:0:1::/64) |

**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)# ipv6 summary-address eigrp default <IP-PREFIX/LEN>
```

**ipv6 summary-address eigrp default <IP-PREFIX/LEN>**

**Description:** Configure route summarization for EIGRP

**Syntax:**

|                      |   |
|----------------------|---|
| default              | EIGRP default instance                            |
| <i>IP-PREFIX/LEN</i> | Summarized IPV6 address (e.g. 2001:0DB8:0:1::/64) |

**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)# ipv6 summary-address eigrp default <IP-PREFIX/LEN>
```

**ipv6 summary-address eigrp default <IP-PREFIX/LEN>**

**Description:** Configure route summarization for EIGRP

**Syntax:**

|                      |  |
|----------------------|--|
| default              | EIGRP default instance                         |
| <i>IP-PREFIX/LEN</i> | Summary IPV6 address (e.g. 2001:0DB8:0:1::/64) |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# ipv6 summary-address eigrp default <IP-PREFIX/LEN>
```

**ipv6 summary-address eigrp default <IP-PREFIX/LEN>**

**Description:** Configure route summarization for EIGRP

**Syntax:**

|                      |   |
|----------------------|---|
| default              | EIGRP default instance                            |
| <i>IP-PREFIX/LEN</i> | Summarized IPV6 address (e.g. 2001:0DB8:0:1::/64) |

**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)# ipv6 summary-address eigrp default <IP-PREFIX/LEN>
```

**ipv6 summary-address eigrp default <IP-PREFIX/LEN>**

**Description:** Configure route summarization for EIGRP

**Syntax:**

|                      |   |
|----------------------|---|
| default              | EIGRP default instance                            |
| <i>IP-PREFIX/LEN</i> | Summarized IPV6 address (e.g. 2001:0DB8:0:1::/64) |

**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)# ipv6 summary-address eigrp default <IP-PREFIX/LEN>
```

# ipv6 throughput-delay

**ipv6 throughput-delay eigrp default <NUMBER> tens-of-micro|pico**

**Description:** Set EIGRP throughput delay

**Syntax:**

|               |   |
|---------------|---|
| eigrp         | EIGRP   |
| default       | EIGRP default instance                            |
| <0-16777215>  | Throughput delay. Number range from=0 to=16777215 |
| tens-of-micro | Unit in 10-microseconds                           |
| pico          | Unit in picoseconds                               |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# ipv6 throughput-delay eigrp default <NUMBER> tens-of-micro|pico
```

**ipv6 throughput-delay eigrp default <NUMBER> tens-of-micro|pico**

**Description:** Set EIGRP throughput delay

**Syntax:**

|               |   |
|---------------|---|
| eigrp         | EIGRP   |
| default       | EIGRP default instance                            |
| <0-16777215>  | Throughput delay. Number range from=0 to=16777215 |
| tens-of-micro | Unit in 10-microseconds                           |
| pico          | Unit in picoseconds                               |

**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)# ipv6 throughput-delay eigrp default <NUMBER> tens-of-micro|pico
```

**ipv6 throughput-delay eigrp default <NUMBER> tens-of-micro|pico**

**Description:** Set EIGRP throughput delay

**Syntax:**

|               |   |
|---------------|---|
| eigrp         | EIGRP   |
| default       | EIGRP default instance                            |
| <0-16777215>  | Throughput delay. Number range from=0 to=16777215 |
| tens-of-micro | Unit in 10-microseconds                           |
| pico          | Unit in picoseconds                               |

**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)# ipv6 throughput-delay eigrp default <NUMBER> tens-of-micro|pico
```

**ipv6 throughput-delay eigrp default <NUMBER> tens-of-micro|pico**

**Description:** Set EIGRP throughput delay

**Syntax:**

|               |   |
|---------------|---|
| eigrp         | EIGRP   |
| default       | EIGRP default instance                            |
| <0-16777215>  | Throughput delay. Number range from=0 to=16777215 |
| tens-of-micro | Unit in 10-microseconds                           |
| pico          | Unit in picoseconds                               |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# ipv6 throughput-delay eigrp default <NUMBER> tens-of-micro|pico
```

**ipv6 throughput-delay eigrp default <NUMBER> tens-of-micro|pico**

**Description:** Set EIGRP throughput delay

**Syntax:**

|               |   |
|---------------|---|
| eigrp         | EIGRP   |
| default       | EIGRP default instance                            |
| <0-16777215>  | Throughput delay. Number range from=0 to=16777215 |
| tens-of-micro | Unit in 10-microseconds                           |
| pico          | Unit in picoseconds                               |

**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)# ipv6 throughput-delay eigrp default <NUMBER> tens-of-micro|pico
```

**ipv6 throughput-delay eigrp default <NUMBER> tens-of-micro|pico**

**Description:** Set EIGRP throughput delay

**Syntax:**

|               |   |
|---------------|---|
| eigrp         | EIGRP   |
| default       | EIGRP default instance                            |
| <0-16777215>  | Throughput delay. Number range from=0 to=16777215 |
| tens-of-micro | Unit in 10-microseconds                           |
| pico          | Unit in picoseconds                               |

**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)# ipv6 throughput-delay eigrp default <NUMBER> tens-of-micro|pico
```



# isis

## isis fabric

**Description:** Intermediate System to Intermediate System (IS-IS)

**Syntax:**

|        |                            |
|--------|----------------------------|
| fabric | Fabric IS-IS configuration |
|--------|----------------------------|

**Command Mode:** pod : Pod configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# pod <NUMBER>
(config-pod)# isis fabric
```

# isis bfd

## isis bfd enabled

**Description:** bfd configuration

**Syntax:**

|         |  |
|---------|--|
| enabled |  |
|---------|--|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# fabric-interface ethernet
(config-leaf-if)# isis bfd enabled
```

## isis bfd enabled

**Description:** bfd configuration

**Syntax:**

|         |  |
|---------|--|
| enabled |  |
|---------|--|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# fabric-interface ethernet
(config-leaf-if)# isis bfd enabled
```

# isolation

## isolation enforce

**Description:** Enable EPG isolation

**Syntax:**

|         |  |
|---------|--|
| enforce | Enable enforcing of policy-control rules (EPG isolation) |
|---------|--|

**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)# isolation enforce
```





## K Commands

---

- [key-server-priority](#), on page 916
- [key](#), on page 917

# key-server-priority

**key-server-priority <NUMBER>**

**Description:** Configure the key server priority

**Syntax:**

|         |                                      |
|---------|--------------------------------------|
| <0-255> | priority. Number range from=0 to=255 |
|---------|--------------------------------------|

**Command Mode:** template macsec access|fabric security-policy : Configure MAC security policy parameters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template macsec access|fabric security-policy <WORD>
(config-macsec-param)# key-server-priority <NUMBER>
```

# key

## key

**Description:** LDAP server key for authentication

**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)# key
```

## key

**Description:** RADIUS server key for authentication

**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)# key
```

## key

**Description:** RSA server key for authentication

**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)# key
```

## key

**Description:** TACACS server key for authentication

**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)# key
```

**key**

**Description:** TACACS remote destination server key for authentication

**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)# key
```

**key <WORD>**

**Description:** Configure CKN as hex string of max 64 characters

**Syntax:**

|             |                                 |
|-------------|---------------------------------|
| <i>WORD</i> | CKN as hex string (Max Size 64) |
|-------------|---------------------------------|

**Command Mode:** template macsec access|fabric keychain : Configure macsec key chain

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template macsec access|fabric keychain <WORD>
(config-macsec-keychain)# key <WORD>
```





## L Commands

---

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- [l2protocol-tunnel](#), on page 923
- [l3-unknown-multicast](#), on page 924
- [l3out](#), on page 925
- [l417-cluster](#), on page 926
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# l2-unknown-unicast

**l2-unknown-unicast** <WORD>

**Description:** Change Unknown Unicast flood behavior

**Syntax:**

|             |                            |
|-------------|----------------------------|
| <i>WORD</i> | Unicast Unknown threatment |
|-------------|----------------------------|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# bridge-domain <WORD>
(config-tenant-bd)# l2-unknown-unicast <WORD>
```

# l2protocol-tunnel

## **l2protocol-tunnel stp|lldp|cdp|lacp|vtp**

**Description:** set the type of qinq tunneling protocol

**Syntax:**

|      |   |
|------|---|
| stp  | Set protocol which needs to be tunneled to STP  |
| lldp | Set protocol which needs to be tunneled to LLDP |
| cdp  | Set protocol which needs to be tunneled to CDP  |
| lacp | Set protocol which needs to be tunneled to LACP |
| vtp  | Set protocol which needs to be tunneled to VTP  |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# dot1q-tunnel <WORD>
(config-tenant-tunnel)#l2protocol-tunnel stp|lldp|cdp|lacp|vtp
```

# l3-unknown-multicast

**l3-unknown-multicast <WORD>**

**Description:** Change L3 Multicast flood behavior

**Syntax:**

|             |                                    |
|-------------|------------------------------------|
| <i>WORD</i> | IP Multicast unknown Fram 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)# l3-unknown-multicast <WORD>
```

# l3out

## l3out <WORD>

**Description:** Configuration for L3Out

**Syntax:**

|             |                          |
|-------------|--------------------------|
| <i>WORD</i> | L3Out name (Max Size 64) |
|-------------|--------------------------|

**Command Mode:** tenant : Tenant configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# l3out <WORD>
```

## l3out <l3out> <default>

**Description:** Add l3out to the Resource Pool

**Syntax:**

|                |         |
|----------------|---------|
| <i>l3out</i>   | l3out   |
| <i>default</i> | default |

**Command Mode:** l4l7 resource-pool : Configure L4-L7 Service Resource Pool

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# l4l7 resource-pool <WORD>
(config-resource-pool)# l3out <l3out> <default>
```

# l4l7-cluster

## **l4l7-cluster <ldevVip>**

**Description:** Add ldev to the Resource Pool

### **Syntax:**

|                |         |
|----------------|---------|
| <i>ldevVip</i> | ldevVip |
|----------------|---------|

**Command Mode:** l4l7 resource-pool : Configure L4-L7 Service Resource Pool

### **Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# l4l7 resource-pool <WORD>
(config-resource-pool)# l4l7-cluster <ldevVip>
```



# l4l7-peer

**l4l7-peer tenant <WORD> out <WORD> epg <WORD> redistribute WORD**

**Description:** Configure l3external epg association for a L4-L7 graph connector.

**Syntax:**

|              |   |
|--------------|---|
| tenant       | tenant under which the l3external epg resides |
| WORD         | WORD  |
| out          | l3external outside name                       |
| WORD         | WORD  |
| epg          | l3external-epg name                           |
| WORD         | WORD  |
| redistribute | Protocol Redistribute Settings                |
| WORD         | Protocol Redistribute Settings                |

**Command Mode:** connector : Configure Connector for a Service Node

**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)# l4l7-peer tenant <WORD> out <WORD> epg <WORD> redistribute WORD
```

# l417

## l417 graph <WORD>

**Description:** Associate a l417 graph with this subject

### Syntax:

|             |                                  |
|-------------|----------------------------------|
| graph       | l417 graph to associate with     |
| <i>WORD</i> | Service Graph name (Max Size 64) |

**Command Mode:** subject : Configuration a subject on the contract

### Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# contract <WORD> [type <type>]
(config-tenant-contract)# subject <WORD>
(config-tenant-contract-subj)# l417 graph <WORD>
```

# l4l7 cluster import-from

**l4l7 cluster import-from <WORD> device-cluster <WORD>**

**Description:** Import a L4-L7 Service Device Cluster

**Syntax:**

|                |                                   |
|----------------|-----------------------------------|
| <i>WORD</i>    | Tenant name (Max Size 63)         |
| device-cluster | Device Cluster name               |
| <i>WORD</i>    | Device cluster name (Max Size 64) |

**Command Mode:** tenant : Tenant configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# l4l7 cluster import-from <WORD> device-cluster <WORD>
```

## l4l7 cluster name

**l4l7 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>]

**Description:** Add a L4-L7 Service Device Cluster

### Syntax:

|                                |   |
|--------------------------------|---|
| <i>WORD</i>                    | Device cluster name (Max Size 64)                                     |
| <i>type</i>                    | Type of l4l7 Device Cluster   |
| <i>type</i>                    | Type of l4l7 Device Cluster   |
| <i>vlan-domain</i>             | Physical or Virtual vlan domain to use for allocating encaps          |
| <domain-name>                  | Physical Or Virtual vlan domain to use for allocating encaps          |
| <i>switching-mode</i>          | (Optional) Switching mode for AVE                                     |
| <i>service</i>                 | (Optional) Indicates the type of service the device cluster provides  |
| <i>function</i>                | (Optional) Indicates the type of function the device cluster provides |
| <i>context</i>                 | (Optional) Type of l4l7 Device Context                                |
| <enable/disable>               | (Optional) Enable or disable trunking for the device cluster          |
| <i>vm-instantiation-policy</i> | (Optional) Select VM instantiation policy for dynamic logical device  |

**Command Mode:** tenant : Tenant configuration mode

### Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# l4l7 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>]
```

# l4l7 graph

**l4l7 graph <WORD> [contract <contract-option>]**

**Description:** Configure L4-L7 Service Graph

**Syntax:**

|                        |                                  |
|------------------------|----------------------------------|
| <i>WORD</i>            | Service Graph name (Max Size 64) |
| <i>contract-option</i> | (Optional) Name of Contract      |

**Command Mode:** tenant : Tenant configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# l4l7 graph <WORD> [contract <contract-option>]
```

# l4l7 resource-pool

**l4l7 resource-pool <WORD>**

**Description:** Configure L4-L7 Service Resource Pool

**Syntax:**

|             |                        |
|-------------|------------------------|
| <i>WORD</i> | SRP name (Max Size 63) |
|-------------|------------------------|

**Command Mode:** tenant : Tenant configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# l4l7 resource-pool <WORD>
```

# label

## label <WORD>

**Description:** Create Provider Label

**Syntax:**

|             |                     |
|-------------|---------------------|
| <i>WORD</i> | Provider Label Name |
|-------------|---------------------|

**Command Mode:** neighbor : Configure a BGP neighbor

**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)# label <WORD>
```

## label <WORD>

**Description:** Create Provider Label

**Syntax:**

|             |                     |
|-------------|---------------------|
| <i>WORD</i> | Provider Label Name |
|-------------|---------------------|

**Command Mode:** neighbor : Configure a BGP neighbor

**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)# label <WORD>
```

# label match

**label match provider|consumer any|one|all|none**

**Description:** Specify the match type for the provider or consumer label

**Syntax:**

|          |  |
|----------|--|
| provider | Matching type for provider                                   |
| consumer | Matching type for consumer                                   |
| any      | Match if ANY label is found in the contract relation         |
| one      | Match if exactly ONE label is found in the contract relation |
| all      | Match if ALL labels are found in the contract relation       |
| none     | Match if NO labels are found in the contract relation        |

**Command Mode:** subject : Configuration a subject on the contract

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# contract <WORD> [type <type>]
(config-tenant-contract)# subject <WORD>
(config-tenant-contract-subj)# label match provider|consumer any|one|all|none
```



# label name

**label name <WORD> provider|consumer**

**Description:** Add a provider or consumer label to the subject

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Name of the label to add (Max Size 64) |
| provider    | Matching type for provider             |
| consumer    | Matching type for consumer             |

**Command Mode:** subject : Configuration a subject on the contract

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# contract <WORD> [type <type>]
(config-tenant-contract)# subject <WORD>
(config-tenant-contract-subj)# label name <WORD> provider|consumer
```

# lacp fast-select-hot-standby

## lacp fast-select-hot-standby

**Description:** Enable LACP fast select for hot standby ports

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template port-channel <WORD>
(config-po-ch-if)# lacp fast-select-hot-standby
```

## lacp fast-select-hot-standby

**Description:** Enable LACP fast select for hot standby ports

**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)# lacp fast-select-hot-standby
```

## lacp fast-select-hot-standby

**Description:** Enable LACP fast select for hot standby ports

**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)# lacp fast-select-hot-standby
```

## lacp fast-select-hot-standby

**Description:** Enable LACP fast select for hot standby ports

**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)# lacp fast-select-hot-standby
```

# lACP graceful-convergence

## lACP graceful-convergence

**Description:** Enable LACP graceful convergence

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

**Command Path:**

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

## lACP graceful-convergence

**Description:** Enable LACP graceful convergence

**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)# lACP graceful-convergence
```

## lACP graceful-convergence

**Description:** Enable LACP graceful convergence

**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)# lACP graceful-convergence
```

## lACP graceful-convergence

**Description:** Enable LACP graceful convergence

**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)# lACP graceful-convergence
```

# lACP load-defer

## lACP load-defer

**Description:** Enable LACP load defer member ports

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

**Command Path:**

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

## lACP load-defer

**Description:** Enable LACP load defer member ports

**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)# lACP load-defer
```

## lACP load-defer

**Description:** Enable LACP load defer member ports

**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)# lACP load-defer
```

## lACP load-defer

**Description:** Enable LACP load defer member ports

**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)# lACP load-defer
```

# lacp max-links

## lacp max-links <NUMBER>

**Description:** Configure maximum number of links

**Syntax:**

|          |  |
|----------|--|
| <number> | Range 1 to 16. Number range from=1 to=16 |
|----------|--|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template fc-port-channel <WORD>
(config-fc-po-ch-if)# lacp max-links <NUMBER>
```

## lacp max-links <NUMBER>

**Description:** Configure maximum number of links

**Syntax:**

|          |  |
|----------|--|
| <number> | Range 1 to 16. Number range from=1 to=16 |
|----------|--|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template port-channel <WORD>
(config-po-ch-if)# lacp max-links <NUMBER>
```

## lacp max-links <NUMBER>

**Description:** Configure maximum number of links

**Syntax:**

|          |  |
|----------|--|
| <number> | Range 1 to 16. Number range from=1 to=16 |
|----------|--|

**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)# lacp max-links <NUMBER>
```

**lACP max-links <NUMBER>****Description:** Configure maximum number of links**Syntax:**

|                       |  |
|-----------------------|--|
| <i>&lt;number&gt;</i> | Range 1 to 16. Number range from=1 to=16 |
|-----------------------|--|

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

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface fc-port-channel <WORD>
(config-leaf-fc-pc)# lACP max-links <NUMBER>
```

**lACP max-links <NUMBER>****Description:** Configure maximum number of links**Syntax:**

|                       |  |
|-----------------------|--|
| <i>&lt;number&gt;</i> | Range 1 to 16. Number range from=1 to=16 |
|-----------------------|--|

**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)# lACP max-links <NUMBER>
```

**lACP max-links <NUMBER>****Description:** Configure maximum number of links**Syntax:**

|                       |  |
|-----------------------|--|
| <i>&lt;number&gt;</i> | Range 1 to 16. Number range from=1 to=16 |
|-----------------------|--|

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

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface fc-port-channel <WORD>
(config-leaf-fc-pc)# lACP max-links <NUMBER>
```

**lACP max-links <NUMBER>****Description:** Configure maximum number of links**Syntax:**

|                       |  |
|-----------------------|--|
| <i>&lt;number&gt;</i> | Range 1 to 16. Number range from=1 to=16 |
|-----------------------|--|

**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)# lACP max-links <NUMBER>
```

# lacp min-links

## lacp min-links <NUMBER>

**Description:** Configure minimum number of links

**Syntax:**

|          |  |
|----------|--|
| <number> | Range 1 to 16. Number range from=1 to=16 |
|----------|--|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template fc-port-channel <WORD>
(config-fc-po-ch-if)# lacp min-links <NUMBER>
```

## lacp min-links <NUMBER>

**Description:** Configure minimum number of links

**Syntax:**

|          |  |
|----------|--|
| <number> | Range 1 to 16. Number range from=1 to=16 |
|----------|--|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template port-channel <WORD>
(config-po-ch-if)# lacp min-links <NUMBER>
```

## lacp min-links <NUMBER>

**Description:** Configure minimum number of links

**Syntax:**

|          |  |
|----------|--|
| <number> | Range 1 to 16. Number range from=1 to=16 |
|----------|--|

**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)# lacp min-links <NUMBER>
```



**lacp min-links <NUMBER>****Description:** Configure minimum number of links**Syntax:**

|                             |  |
|-----------------------------|--|
| <code>&lt;number&gt;</code> | Range 1 to 16. Number range from=1 to=16 |
|-----------------------------|--|

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

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface fc-port-channel <WORD>
(config-leaf-fc-pc)# lacp min-links <NUMBER>
```

**lacp min-links <NUMBER>****Description:** Configure minimum number of links**Syntax:**

|                             |  |
|-----------------------------|--|
| <code>&lt;number&gt;</code> | Range 1 to 16. Number range from=1 to=16 |
|-----------------------------|--|

**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)# lacp min-links <NUMBER>
```

**lacp min-links <NUMBER>****Description:** Configure minimum number of links**Syntax:**

|                             |  |
|-----------------------------|--|
| <code>&lt;number&gt;</code> | Range 1 to 16. Number range from=1 to=16 |
|-----------------------------|--|

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

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface fc-port-channel <WORD>
(config-leaf-fc-pc)# lacp min-links <NUMBER>
```

**lacp min-links <NUMBER>****Description:** Configure minimum number of links**Syntax:**

|          |  |
|----------|--|
| <number> | Range 1 to 16. Number range from=1 to=16 |
|----------|--|

**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)# lacp min-links <NUMBER>
```

# lacp port-priority

## lacp port-priority <arg>

**Description:** Set Lacp priority

**Syntax:**

|            |  |
|------------|--|
| <i>arg</i> | Priority Value. Number range from=1 to=65535 |
|------------|--|

**Command Mode:** leaf-interface-group : Configure Leaf Interface Group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf-interface-profile <WORD>
(config-leaf-if-profile)# leaf-interface-group <WORD>
(config-leaf-if-group)# lacp port-priority <>
```

## lacp port-priority <arg>

**Description:** Set Lacp priority.

**Syntax:**

|            |  |
|------------|--|
| <i>arg</i> | Priority Value. Number range from=1 to=65535 |
|------------|--|

**Command Mode:** fex-interface-group : Configure Fex Interface Group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# fex-profile <WORD>
(config-fex-profile)# fex-interface-group <WORD>
(config-fex-if-group)# lacp port-priority <>
```

## lacp port-priority <NUMBER>

**Description:** Set Lacp priority.

**Syntax:**

|           |  |
|-----------|--|
| <1-65535> | Priority Value. Number range from=1 to=65535 |
|-----------|--|

**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)# lacp port-priority <NUMBER>
```

**lacp port-priority <NUMBER>****Description:** Set LACP priority.**Syntax:**

|           |  |
|-----------|--|
| <1-65535> | Priority Value. Number range from=1 to=65535 |
|-----------|--|

**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)# lacp port-priority <NUMBER>
```

# lACP port-priority interface

## lACP port-priority <arg> interface ethernet

**Description:** Set Port Priority on specific Ports

**Syntax:**

|            |  |
|------------|--|
| <i>arg</i> | Priority Value. Number range from=1 to=65535 |
| ethernet   | Configure Physical Interface                 |
| <i>arg</i> | Provide range of Interfaces                  |

**Command Mode:** leaf-interface-group : Configure Leaf Interface Group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf-interface-profile <WORD>
(config-leaf-if-profile)# leaf-interface-group <WORD>
(config-leaf-if-group)# lACP port-priority <> interface ethernet
```

## lACP port-priority <arg> interface ethernet

**Description:** Set Port Priority on specific ports

**Syntax:**

|            |  |
|------------|--|
| <i>arg</i> | Priority Value. Number range from=1 to=65535 |
| ethernet   | Configure Physical Interface                 |
| <i>arg</i> | Provide range of Interfaces                  |

**Command Mode:** fex-interface-group : Configure Fex Interface Group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# fex-profile <WORD>
(config-fex-profile)# fex-interface-group <WORD>
(config-fex-if-group)# lACP port-priority <> interface ethernet
```

# lACP rate

## lACP rate fast|normal

**Description:** Set LACP rate

**Syntax:**

|        |                    |
|--------|--------------------|
| fast   | Set rate to fast   |
| normal | Set rate to normal |

**Command Mode:** leaf-interface-group : Configure Leaf Interface Group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf-interface-profile <WORD>
(config-leaf-if-profile)# leaf-interface-group <WORD>
(config-leaf-if-group)# lACP rate fast|normal
```

## lACP rate fast|normal

**Description:** Set LACP rate

**Syntax:**

|        |                    |
|--------|--------------------|
| fast   | Set rate to fast   |
| normal | Set rate to normal |

**Command Mode:** fex-interface-group : Configure Fex Interface Group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# fex-profile <WORD>
(config-fex-profile)# fex-interface-group <WORD>
(config-fex-if-group)# lACP rate fast|normal
```

## lACP rate fast|normal

**Description:** Set LACP rate

**Syntax:**

|        |                    |
|--------|--------------------|
| fast   | Set rate to fast   |
| normal | Set rate to normal |

**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)# lacp rate fast|normal
```

### lacp rate fast|normal

**Description:** Set Lacp rate

#### Syntax:

|        |                    |
|--------|--------------------|
| fast   | Set rate to fast   |
| normal | Set rate to normal |

**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)# lacp rate fast|normal
```

# lACP rate fast normal interface

## lACP rate fast|normal interface ethernet

**Description:** Set Port Priority on specific Ports

**Syntax:**

|            |                              |
|------------|------------------------------|
| fast       | Set rate to fast             |
| normal     | Set rate to normal           |
| ethernet   | Configure Physical Interface |
| <i>arg</i> | Provide range of Interfaces  |

**Command Mode:** leaf-interface-group : Configure Leaf Interface Group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf-interface-profile <WORD>
(config-leaf-if-profile)# leaf-interface-group <WORD>
(config-leaf-if-group)# lACP rate fast|normal interface ethernet
```

## lACP rate fast|normal interface ethernet

**Description:** Set Port Priority on specific Ports

**Syntax:**

|            |                              |
|------------|------------------------------|
| fast       | Set rate to fast             |
| normal     | Set rate to normal           |
| ethernet   | Configure Physical Interface |
| <i>arg</i> | Provide range of Interfaces  |

**Command Mode:** fex-interface-group : Configure Fex Interface Group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# fex-profile <WORD>
(config-fex-profile)# fex-interface-group <WORD>
(config-fex-if-group)# lACP rate fast|normal interface ethernet
```



# lacp suspend-individual

## lacp suspend-individual

**Description:** Enable LACP individual Port suspension

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

**Command Path:**

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

## lacp suspend-individual

**Description:** Enable LACP individual Port suspension

**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)# lacp suspend-individual
```

## lacp suspend-individual

**Description:** Enable LACP individual Port suspension

**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)# lacp suspend-individual
```

## lacp suspend-individual

**Description:** Enable LACP individual Port suspension

**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)# lacp suspend-individual
```

# lACP symmetric-hash

## lACP symmetric-hash

**Description:** Configure symmetric hashing policy

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

**Command Path:**

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

## lACP symmetric-hash

**Description:** Configure symmetric hashing policy

**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)# lACP symmetric-hash
```

## lACP symmetric-hash

**Description:** Configure symmetric hashing policy

**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)# lACP symmetric-hash
```

# lag-policy

## lag-policy <lag-policy-name>

**Description:** Associate Enhanced Lag Policy to VMM Domain

**Syntax:**

|                   |                          |
|-------------------|--------------------------|
| <lag-policy-name> | Enhanced Lag Policy Name |
|-------------------|--------------------------|

**Command Mode:** vmware-domain : Create a VMM VMWare Domain

**Command Path:**

```
# configure [['terminal', 't']]
(config)# vmware-domain <WORD> [delimiter <WORD>] [access-mode <access-mode>]
(config-vmware)# lag-policy <lag-policy-name>
```

## lag-policy <lag-policy-name>

**Description:** Associate Enhanced Lag Policy to EPG in native mode

**Syntax:**

|                   |                          |
|-------------------|--------------------------|
| <lag-policy-name> | Enhanced Lag Policy Name |
|-------------------|--------------------------|

**Command Mode:** vmware-domain : Associate EPG to a VMWare Domain

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# application <WORD>
(config-tenant-app)# epg <WORD> [type <WORD>]
(config-tenant-app-epg)# vmware-domain member <WORD> [encap <WORD>] [primary-encap <WORD>]
[allow-micro-segmentation] [deploy <WORD>] [push <WORD>] [binding-type
staticBinding|dynamicBinding|ephemeral] [port-allocation fixed|elastic] [num-ports <WORD>]
[delimiter <WORD>]
(config-tenant-app-epg-domain)# lag-policy <lag-policy-name>
```

# last-name

**last-name <WORD>**

**Description:** Set The last name of the locally-authenticated user.

**Syntax:**

|             |                         |
|-------------|-------------------------|
| <i>WORD</i> | last name (Max Size 32) |
|-------------|-------------------------|

**Command Mode:** username : Create a locally-authenticated user account

**Command Path:**

```
# configure [['terminal', 't']]
(config)# username <WORD>
(config-username)# last-name <WORD>
```

# lastlogin

**lastlogin**

**Description:** Show user last login time

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# lastlogin
```

# latency

**latency mode <mode>**

**Description:** Configure latency

**Syntax:**

|             |                              |
|-------------|------------------------------|
| mode        | Configure Vlan Domain Member |
| <i>mode</i> | mode                         |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# latency mode <mode>
```

# layer2-switched flow

## layer2-switched flow monitor <WORD>

**Description:** Configure Netflow on a Policy Group

**Syntax:**

|         |   |
|---------|---|
| monitor | Configure Netflow on a Policy Group       |
| WORD    | Netflow Monitor Policy Name (Max Size 64) |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template policy-group <WORD>
(config-pol-grp-if)# layer2-switched flow monitor <WORD>
```

## layer2-switched flow monitor <WORD>

**Description:** Configure Netflow on the Interface

**Syntax:**

|         |   |
|---------|---|
| monitor | Configure Netflow on the Interface        |
| WORD    | Netflow Monitor Policy Name (Max Size 64) |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template port-channel <WORD>
(config-po-ch-if)# layer2-switched flow monitor <WORD>
```

## layer2-switched flow monitor <WORD>

**Description:** Configure Netflow on the Interface

**Syntax:**

|         |   |
|---------|---|
| monitor | Configure Netflow on the Interface        |
| WORD    | Netflow Monitor Policy Name (Max Size 64) |

**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)# layer2-switched flow monitor <WORD>
```

**layer2-switched flow monitor <WORD>****Description:** Configure Netflow on the Interface**Syntax:**

|             |   |
|-------------|---|
| monitor     | Configure Netflow on the Interface        |
| <i>WORD</i> | Netflow Monitor Policy Name (Max Size 64) |

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

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# layer2-switched flow monitor <WORD>
```

**layer2-switched flow monitor <arg>****Description:** Configure Netflow on the Interface**Syntax:**

|            |   |
|------------|---|
| monitor    | Configure Netflow on the Interface        |
| <i>arg</i> | Netflow Monitor Policy Name (Max Size 64) |

**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)# layer2-switched flow monitor <>
```

**layer2-switched flow monitor <WORD>****Description:** Configure Netflow on the Interface**Syntax:**

|             |   |
|-------------|---|
| monitor     | Configure Netflow on the Interface        |
| <i>WORD</i> | Netflow Monitor Policy Name (Max Size 64) |

**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)# layer2-switched flow monitor <WORD>
```

### layer2-switched flow monitor <WORD>

**Description:** Configure Netflow on the Interface

**Syntax:**

|             |   |
|-------------|---|
| monitor     | Configure Netflow on the Interface        |
| <i>WORD</i> | Netflow Monitor Policy Name (Max Size 64) |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# layer2-switched flow monitor <WORD>
```

### layer2-switched flow monitor <arg>

**Description:** Configure Netflow on the Interface

**Syntax:**

|            |   |
|------------|---|
| monitor    | Configure Netflow on the Interface        |
| <i>arg</i> | Netflow Monitor Policy Name (Max Size 64) |

**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)# layer2-switched flow monitor <>
```

### layer2-switched flow monitor <WORD>

**Description:** Configure Netflow on the Interface

**Syntax:**

|             |   |
|-------------|---|
| monitor     | Configure Netflow on the Interface        |
| <i>WORD</i> | Netflow Monitor Policy Name (Max Size 64) |

**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)# layer2-switched flow monitor <WORD>
```

**layer2-switched flow monitor <WORD>**

**Description:** Configure Netflow on the VPC

**Syntax:**

|             |   |
|-------------|---|
| monitor     | Configure Netflow on the VPC              |
| <i>WORD</i> | Netflow Monitor Policy Name (Max Size 64) |

**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)# layer2-switched flow monitor <WORD>
```

# lbmode

**lbmode <Loadbalancing-Mode>**

**Description:** Set Loadbalancing mode for Lag policy

**Syntax:**

|                           |  |
|---------------------------|--|
| <i>Loadbalancing-Mode</i> |  |
|---------------------------|--|

**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)# lbmode <Loadbalancing-Mode>
```

# ldap-group-map-rule

**ldap-group-map-rule** <WORD>

**Description:** LDAP group map rule name.

**Syntax:**

|             |                          |
|-------------|--------------------------|
| <i>WORD</i> | LDAP group map rule name |
|-------------|--------------------------|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# ldap-group-map-rule <WORD>
```

# ldap-group-map

## ldap-group-map <WORD>

**Description:** Add LDAP group map to LDAP Provider group

**Syntax:**

|             |                     |
|-------------|---------------------|
| <i>WORD</i> | LDAP group map name |
|-------------|---------------------|

**Command Mode:** aaa group server ldap : LDAP server group name.

**Command Path:**

```
# configure [['terminal', 't']]
(config)# aaa group server ldap <WORD>
(config-ldap)# ldap-group-map <WORD>
```

## ldap-group-map <WORD>

**Description:** LDAP server group map name.

**Syntax:**

|             |                     |
|-------------|---------------------|
| <i>WORD</i> | LDAP group map name |
|-------------|---------------------|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# ldap-group-map <WORD>
```

# ldap-server attribute

## ldap-server attribute <WORD>

**Description:** An LDAP endpoint attribute to be used as the CiscoAVPair

### Syntax:

|        |                                       |
|--------|---------------------------------------|
| <WORD> | LDAP endpoint attribute (Max Size 63) |
|--------|---------------------------------------|

**Command Mode:** configure : Configuration Mode

### Command Path:

```
# configure [['terminal', 't']]
(config)# ldap-server attribute <WORD>
```

# ldap-server basedn

**ldap-server basedn <WORD>**

**Description:** The LDAP base DN for user lookup in the LDAP directory tree

**Syntax:**

|        |   |
|--------|---|
| <WORD> | user lookup in LDAP directory tree (Max Size 512) |
|--------|---|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# ldap-server basedn <WORD>
```

# ldap-server filter

**ldap-server filter <WORD>**

**Description:** LDAP search filter for the LDAP endpoint

**Syntax:**

|        |   |
|--------|---|
| <WORD> | search filter for the LDAP endpoint (Max Size 63) |
|--------|---|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# ldap-server filter <WORD>
```



# ldap-server host

**ldap-server host** <A.B.C.D|A:B::C:D|WORD>

**Description:** LDAP server DNS name or IP address

**Syntax:**

|                              |   |
|------------------------------|---|
| <i>A.B.C.D/A:B::C:D/WORD</i> | Provide a hostname or IPV4/IPV6 address |
|------------------------------|---|

**Command Mode:** configure : Configuration Mode

**Command Path:**

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

# ldap-server retries

**ldap-server retries** <NUMBER>

**Description:** Global LDAP server retransmit count

**Syntax:**

|       |   |
|-------|---|
| <0-5> | Global LDAP server retransmit count. Number range from=0 to=5 |
|-------|---|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# ldap-server retries <NUMBER>
```

# ldap-server timeout

**ldap-server timeout** <NUMBER>

**Description:** Global LDAP server timeout period in seconds

**Syntax:**

|        |   |
|--------|---|
| <1-60> | Global LDAP server timeout period in seconds. Number range from=1 to=60 |
|--------|---|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# ldap-server timeout <NUMBER>
```

# leaf-group

## leaf-group <WORD>

**Description:** Configure Leaf Group

**Syntax:**

|             |                               |
|-------------|-------------------------------|
| <i>WORD</i> | Leaf Group name (Max Size 64) |
|-------------|-------------------------------|

**Command Mode:** leaf-profile : Configure Leaf Profile

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf-profile <WORD>
(config-leaf-profile)# leaf-group <WORD>
```

## leaf-group <WORD>

**Description:** Configure Leaf Group

**Syntax:**

|             |                               |
|-------------|-------------------------------|
| <i>WORD</i> | Leaf Group name (Max Size 64) |
|-------------|-------------------------------|

**Command Mode:** leaf-profile : Configure Leaf Profile

**Command Path:**

```
# configure [['terminal', 't']]
(config)# fabric-internal
(config-fabric-internal)# leaf-profile <WORD>
(config-leaf-profile)# leaf-group <WORD>
```

# leaf-interface-group

## leaf-interface-group <WORD>

**Description:** Configure Leaf Interface Group

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Leaf Interface Group name (Max Size 64) |
|-------------|---|

**Command Mode:** leaf-interface-profile : Create Leaf Interface Profile

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf-interface-profile <WORD>
(config-leaf-if-profile)# leaf-interface-group <WORD>
```

## leaf-interface-group <WORD>

**Description:** Configure Leaf Interface Group

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Leaf Interface Group name (Max Size 64) |
|-------------|---|

**Command Mode:** leaf-interface-profile : Create Leaf Interface Profile

**Command Path:**

```
# configure [['terminal', 't']]
(config)# fabric-internal
(config-fabric-internal)# leaf-interface-profile <WORD>
(config-leaf-if-profile)# leaf-interface-group <WORD>
```

# leaf-interface-profile

## leaf-interface-profile <WORD>

**Description:** Attach Leaf Interface Profile to the Leaf Profile

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Leaf Interface Profile name (Max Size 64) |
|-------------|---|

**Command Mode:** leaf-profile : Configure Leaf Profile

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf-profile <WORD>
(config-leaf-profile)# leaf-interface-profile <WORD>
```

## leaf-interface-profile <WORD>

**Description:** Create Leaf Interface Profile

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Leaf Interface Profile name (Max Size 64) |
|-------------|---|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf-interface-profile <WORD>
```

## leaf-interface-profile <WORD>

**Description:** Create Leaf Interface Profile

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Leaf Interface Profile name (Max Size 64) |
|-------------|---|

**Command Mode:** fabric-internal : Fabric Policy Configuration for internal ports

**Command Path:**

```
# configure [['terminal', 't']]
(config)# fabric-internal
(config-fabric-internal)# leaf-interface-profile <WORD>
```

## leaf-interface-profile <WORD>

**Description:** Attach Leaf Interface Profile to the Leaf Profile

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Leaf Interface Profile name (Max Size 64) |
|-------------|---|

**Command Mode:** leaf-profile : Configure Leaf Profile

**Command Path:**

```
# configure [['terminal', 't']]
(config)# fabric-internal
(config-fabric-internal)# leaf-profile <WORD>
(config-leaf-profile)# leaf-interface-profile <WORD>
```

# leaf-policy-group

## leaf-policy-group <WORD>

**Description:** Configure leaf policy group

**Syntax:**

|             |                                |
|-------------|--------------------------------|
| <i>WORD</i> | Leaf policy name (Max Size 64) |
|-------------|--------------------------------|

**Command Mode:** leaf-group : Configure Leaf Group

**Command Path:**

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

## leaf-policy-group <WORD>

**Description:** Configure leaf policy group

**Syntax:**

|             |                                |
|-------------|--------------------------------|
| <i>WORD</i> | Leaf policy name (Max Size 64) |
|-------------|--------------------------------|

**Command Mode:** leaf-group : Configure Leaf Group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# fabric-internal
(config-fabric-internal)# leaf-profile <WORD>
(config-leaf-profile)# leaf-group <WORD>
(config-leaf-group)# leaf-policy-group <WORD>
```



# leaf-profile

## leaf-profile <WORD>

**Description:** Configure Leaf Profile

**Syntax:**

|             |                                 |
|-------------|---------------------------------|
| <i>WORD</i> | Leaf Profile name (Max Size 64) |
|-------------|---------------------------------|

**Command Mode:** configure : Configuration Mode

**Command Path:**

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

## leaf-profile <WORD>

**Description:** Configure Leaf Profile

**Syntax:**

|             |                                 |
|-------------|---------------------------------|
| <i>WORD</i> | Leaf Profile name (Max Size 64) |
|-------------|---------------------------------|

**Command Mode:** fabric-internal : Fabric Policy Configuration for internal ports

**Command Path:**

```
# configure [['terminal', 't']]
(config)# fabric-internal
(config-fabric-internal)# leaf-profile <WORD>
```

# leaf

## leaf <101-4000>

**Description:** Provide a Range of Nodes

**Syntax:**

|            |                              |
|------------|------------------------------|
| <101-4000> | Leaf Range or Leaf Name List |
|------------|------------------------------|

**Command Mode:** leaf-group : Configure Leaf Group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf-profile <WORD>
(config-leaf-profile)# leaf-group <WORD>
(config-leaf-group)# leaf <101-4000>
```

## leaf <101-4000>

**Description:** Provide a Range of Nodes

**Syntax:**

|            |                              |
|------------|------------------------------|
| <101-4000> | Leaf Range or Leaf Name List |
|------------|------------------------------|

**Command Mode:** leaf-group : Configure Leaf Group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# fabric-internal
(config-fabric-internal)# leaf-profile <WORD>
(config-leaf-profile)# leaf-group <WORD>
(config-leaf-group)# leaf <101-4000>
```

## leaf <101-4000>

**Description:** Configure Leaf Node

**Syntax:**

|            |                              |
|------------|------------------------------|
| <101-4000> | Leaf Range or Leaf Name List |
|------------|------------------------------|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
```

# legacy

**legacy forwarding vlan <NUMBER> vlan-domain <WORD>**

**Description:** Set the bridge domain to behave as a L2 vlan in traditional ethernet environment

**Syntax:**

|             |   |
|-------------|---|
| forwarding  | Forwarding keyword                              |
| vlan        | Legacy Vlan Number                              |
| <1-4094>    | Legacy Vlan Number. Number range from=1 to=4094 |
| vlan-domain | Name of the vlan domain to use                  |
| <i>WORD</i> | Name of the vlan domain to use (Max Size 64)    |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# bridge-domain <WORD>
(config-tenant-bd)# legacy forwarding vlan <NUMBER> vlan-domain <WORD>
```

# license smart deregister

**license smart deregister**

**Description:** Deregister device from Smart Licensing

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# license smart deregister
```

# license smart hostname

**license smart hostname privacy <privacyVal>**

**Description:** Device Host Name

**Syntax:**

|                   |            |
|-------------------|------------|
| privacy           | Privacy    |
| <i>privacyVal</i> | privacyVal |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# license smart hostname privacy <privacyVal>
```

# license smart import

**license smart import certificate <certificate>**

**Description:** Import Certificate

**Syntax:**

|               |  |
|---------------|--|
| certificate   | Certificate of CSSM, CSSM Satellite or Transport Gateway |
| <certificate> | Content of certificate                                   |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# license smart import certificate <certificate>
```

# license smart register

**license smart register idtoken <id token> force**

**Description:** Register device for Smart Licensing

**Syntax:**

|            |  |
|------------|--|
| idtoken    | Use Registration Token to register device  |
| <id token> | Id Token used to register device           |
| force      | Override existing registration information |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# license smart register idtoken <id token> force
```

# license smart remove

**license smart remove certificate <certificate>**

**Description:** Remove certificate

**Syntax:**

|               |  |
|---------------|--|
| certificate   | Certificate of CSSM, CSSM Satellite or Transport Gateway |
| <certificate> | Content of certificate                                   |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# license smart remove certificate <certificate>
```



# license smart renew auth

## license smart renew auth

**Description:** Renew authorization of Smart Licenses in use

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# license smart renew auth
```

# license smart renew id

**license smart renew id**

**Description:** Renew registration with Smart Licensing

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]  
(config)# license smart renew id
```

# license smart reservation cancel

**license smart reservation cancel**

**Description:** Cancel a smart license reservation request

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]  
(config)# license smart reservation cancel
```

# license smart reservation enable

## license smart reservation enable

**Description:** Enable Permanent License Reservation

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]  
(config)# license smart reservation enable
```

# license smart reservation install

**license smart reservation install <key>**

**Description:** Install a smart license authorization code

**Syntax:**

|       |                                     |
|-------|-------------------------------------|
| <key> | The authorization key from the CSSM |
|-------|-------------------------------------|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# license smart reservation install <key>
```

# license smart reservation request

## license smart reservation request universal

**Description:** Request a license reservation

**Syntax:**

|           |   |
|-----------|---|
| universal | Request a universal license reservation |
|-----------|---|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# license smart reservation request universal
```

# license smart reservation return

**license smart reservation return**

**Description:** Return permanent license

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# license smart reservation return
```

# license smart reservation return auth

**license smart reservation return\_auth** <authorization code>

**Description:** Return permanent license install code

**Syntax:**

|                      |                        |
|----------------------|------------------------|
| <authorization code> | The authorization code |
|----------------------|------------------------|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# license smart reservation return_auth <authorization code>
```



# license smart transport-mode proxy

**license smart transport-mode proxy ip-address <ip address> port <port number>**

**Description:** HTTP/HTTPS Proxy

**Syntax:**

|               |  |
|---------------|--|
| ip-address    | IP address of third-party proxy server(Apache)   |
| <ip address>  | IP address                                       |
| port          | Port number of third-party proxy server (Apache) |
| <port number> | Port number                                      |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# license smart transport-mode proxy ip-address <ip address> port <port number>
```

# license smart transport-mode satellite

**license smart transport-mode satellite url <url>**

**Description:** Transport Gateway/Smart Software Manager Satellite

**Syntax:**

|       |   |
|-------|---|
| url   | URL of CSSM Satellite or Transport Gateway  |
| <url> | http(s)://<ip-address/hostname>:<port>/Transportgateway/services/DeviceRequestHandler |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# license smart transport-mode satellite url <url>
```

# license smart transport-mode smart-licensing

## license smart transport-mode smart-licensing

**Description:** Direct Connect to Cisco Smart Software Manager(CSSM)

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# license smart transport-mode smart-licensing
```

# life-time end

**life-time end** <end\_time>

**Description:** Set end time

**Syntax:**

|                 |  |
|-----------------|--|
| <i>end_time</i> | End time (in YYYY-MM-DDTHH:MM:SS format) or 'infinite' |
|-----------------|--|

**Command Mode:** key : Configure CKN as hex string of max 64 characters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template macsec access|fabric keychain <WORD>
(config-macsec-keychain)# key <WORD>
(config-macsec-keychain-key)# life-time end <end_time>
```

# life-time start

**life-time start** <start\_time> [end <end\_time>]

**Description:** Set start time

**Syntax:**

|                   |   |
|-------------------|---|
| <i>start_time</i> | Start time (in YYYY-MM-DDTHH:MM:SS format) or 'now'               |
| <i>end_time</i>   | (Optional) End time (in YYYY-MM-DDTHH:MM:SS format) or 'infinite' |

**Command Mode:** key : Configure CKN as hex string of max 64 characters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template macsec access|fabric keychain <WORD>
(config-macsec-keychain)# key <WORD>
(config-macsec-keychain-key)# life-time start <start_time> [end <end_time>]
```

# link-failover-policy

## link-failover-policy <WORD>

**Description:** Configure Fast Link Failover policy

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Provide a Fast Link Failover policy name |
|-------------|--|

**Command Mode:** configure : Configuration Mode

**Command Path:**

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

## link-failover-policy <arg>

**Description:** Add Fast Link Failover policy

**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)# link-failover-policy <>
```

# link

## link debounce time <NUMBER>

**Description:** Configure link

**Syntax:**

|          |  |
|----------|--|
| debounce | Configure link debounce timer                              |
| time     | Link debounce time   |
| <time>   | Timer value (in milliseconds). Number range from=0 to=5000 |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template policy-group <WORD>
(config-pol-grp-if)# link debounce time <NUMBER>
```

## link debounce time <NUMBER>

**Description:** Configure link

**Syntax:**

|          |  |
|----------|--|
| debounce | Configure link debounce timer                              |
| time     | Link debounce time   |
| <time>   | Timer value (in milliseconds). Number range from=0 to=5000 |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template port-channel <WORD>
(config-po-ch-if)# link debounce time <NUMBER>
```

## link debounce time <NUMBER>

**Description:** Configure link

**Syntax:**

|          |  |
|----------|--|
| debounce | Configure link debounce timer                              |
| time     | Link debounce time   |
| <time>   | Timer value (in milliseconds). Number range from=0 to=5000 |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template spine-interface-policy-group <WORD>
(config-spine-if-pol-grp)# link debounce time <NUMBER>
```

**link debounce time <NUMBER>**

**Description:** Configure link

**Syntax:**

|          |  |
|----------|--|
| debounce | Configure link debounce timer                              |
| time     | Link debounce time   |
| <time>   | Timer value (in milliseconds). Number range from=0 to=5000 |

**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)# link debounce time <NUMBER>
```

**link debounce time <NUMBER>**

**Description:** Configure link

**Syntax:**

|          |  |
|----------|--|
| debounce | Configure link debounce timer                              |
| time     | Link debounce time   |
| <time>   | Timer value (in milliseconds). Number range from=0 to=5000 |

**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)# link debounce time <NUMBER>
```

**link debounce time <NUMBER>**

**Description:** Configure link

**Syntax:**



|          |  |
|----------|--|
| debounce | Configure link debounce timer                              |
| time     | Link debounce time   |
| <time>   | Timer value (in milliseconds). Number range from=0 to=5000 |

**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)# link debounce time <NUMBER>
```

### link debounce time <NUMBER>

**Description:** Configure link

**Syntax:**

|          |  |
|----------|--|
| debounce | Configure link debounce timer                              |
| time     | Link debounce time   |
| <time>   | Timer value (in milliseconds). Number range from=0 to=5000 |

**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)# link debounce time <NUMBER>
```

### link debounce time <NUMBER>

**Description:** Configure link

**Syntax:**

|          |  |
|----------|--|
| debounce | Configure link debounce timer                              |
| time     | Link debounce time   |
| <time>   | Timer value (in milliseconds). Number range from=0 to=5000 |

**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)# link debounce time <NUMBER>
```

# lldp

## lldp receive|transmit|both|default

**Description:** Configure Interface LLDP parameters on DVS uplink ports

**Syntax:**

|          |                                |
|----------|--------------------------------|
| receive  | Enable LLDP reception          |
| transmit | Enable LLDP transmission       |
| both     | Enable LLDP in both directions |
| default  | Remove LLDP override policy    |

**Command Mode:** configure-dvs : Configure a VMWare Domain as DVS type

**Command Path:**

```
# configure [['terminal', 't']]
(config)# vmware-domain <WORD> [delimiter <WORD>] [access-mode <access-mode>]
(config-vmware)# configure-dvs
(config-vmware-dvs)# lldp receive|transmit|both|default
```

## lldp receive|transmit|both|default

**Description:** Configure Interface LLDP parameters on AVS/AVE uplink ports

**Syntax:**

|          |                                |
|----------|--------------------------------|
| receive  | Enable LLDP reception          |
| transmit | Enable LLDP transmission       |
| both     | Enable LLDP in both directions |
| default  | Remove LLDP override policy    |

**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)# lldp receive|transmit|both|default
```

## lldp receive|transmit|both|default

**Description:** Configure Interface LLDP parameters on AVS/AVE uplink ports

**Syntax:**

|          |                                |
|----------|--------------------------------|
| receive  | Enable LLDP reception          |
| transmit | Enable LLDP transmission       |
| both     | Enable LLDP in both directions |
| default  | Remove LLDP override policy    |

**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)# lldp receive|transmit|both|default
```

**lldp receive|transmit**

**Description:** Configure Interface LLDP parameters

**Syntax:**

|          |                                       |
|----------|---------------------------------------|
| receive  | Enable LLDP reception on interface    |
| transmit | Enable LLDP transmission on interface |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template policy-group <WORD>
(config-pol-grp-if)# lldp receive|transmit
```

**lldp receive|transmit**

**Description:** Configure Interface LLDP parameters

**Syntax:**

|          |                                       |
|----------|---------------------------------------|
| receive  | Enable LLDP reception on interface    |
| transmit | Enable LLDP transmission on interface |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template port-channel <WORD>
(config-po-ch-if)# lldp receive|transmit
```

**lldp receive|transmit****Description:** Configure Interface LLDP parameters**Syntax:**

|          |                                       |
|----------|---------------------------------------|
| receive  | Enable LLDP reception on interface    |
| transmit | Enable LLDP transmission on interface |

**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)# lldp receive|transmit
```

**lldp receive|transmit****Description:** Configure Interface LLDP parameters**Syntax:**

|          |                                       |
|----------|---------------------------------------|
| receive  | Enable LLDP reception on interface    |
| transmit | Enable LLDP transmission on interface |

**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)# lldp receive|transmit
```

**lldp receive|transmit****Description:** Configure Interface LLDP parameters**Syntax:**

|          |                                       |
|----------|---------------------------------------|
| receive  | Enable LLDP reception on interface    |
| transmit | Enable LLDP transmission on interface |

**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)# lldp receive|transmit
```

**lldp receive|transmit****Description:** Configure Interface LLDP parameters**Syntax:**

|          |                                       |
|----------|---------------------------------------|
| receive  | Enable LLDP reception on interface    |
| transmit | Enable LLDP transmission on interface |

**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)# lldp receive|transmit
```

**lldp receive|transmit****Description:** Configure Interface LLDP parameters**Syntax:**

|          |                                       |
|----------|---------------------------------------|
| receive  | Enable LLDP reception on interface    |
| transmit | Enable LLDP transmission on interface |

**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)# lldp receive|transmit
```

# lldp holdtime

**lldp holdtime <NUMBER>**

**Description:** Specify the hold time to be sent in LLDP packets

**Syntax:**

|          |  |
|----------|--|
| <10-255> | Holdtime in sec. Number range from=10 to=255 |
|----------|--|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# lldp holdtime <NUMBER>
```

# lldp reinit

## lldp reinit <NUMBER>

**Description:** Specify the delay for LLDP initialization on an interface

**Syntax:**

|        |  |
|--------|--|
| <1-10> | Reinit Delay in sec. Number range from=1 to=10 |
|--------|--|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# lldp reinit <NUMBER>
```



# lldp timer

**lldp timer <NUMBER>**

**Description:** Specify the rate at which LLDP packets are sent

**Syntax:**

|         |  |
|---------|--|
| <5-254> | Rate of packets in sec. Number range from=5 to=254 |
|---------|--|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# lldp timer <NUMBER>
```

# load-balance

## load-balance <WORD>

**Description:** Configure load balance hash fields

**Syntax:**

|             |             |
|-------------|-------------|
| <i>WORD</i> | Hash Fields |
|-------------|-------------|

**Command Mode:** lacp symmetric-hash : Configure symmetric hashing policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template port-channel <WORD>
(config-po-ch-if)# lacp symmetric-hash
(config-po-ch-sym-hash)# load-balance <WORD>
```

## load-balance <WORD>

**Description:** Configure load balance hash fields

**Syntax:**

|             |             |
|-------------|-------------|
| <i>WORD</i> | Hash Fields |
|-------------|-------------|

**Command Mode:** lacp symmetric-hash : Configure symmetric hashing policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface port-channel <WORD> [fex <fex>]
(config-leaf-if)# lacp symmetric-hash
(config-po-ch-sym-hash)# load-balance <WORD>
```

## load-balance <WORD>

**Description:** Configure load balance hash fields

**Syntax:**

|             |             |
|-------------|-------------|
| <i>WORD</i> | Hash Fields |
|-------------|-------------|

**Command Mode:** lacp symmetric-hash : Configure symmetric hashing policy

**Command Path:**

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

```
(config-po-ch-sym-hash)# load-balance <WORD>
```

# local-as

## local-as <NUMBER> no-prepend|replace-as|dual-as

**Description:** Local Autonomous System Configuration for a BGP Peer

**Syntax:**

|                   |   |
|-------------------|---|
| <1-4294967295>    | The local autonomous system number. Number range from=1 to=4294967295 |
| <i>no-prepend</i> | Do not prepend local-as to updates from ebgp peers                    |
| <i>replace-as</i> | Replace real AS with local AS in the EBGp updates                     |
| <i>dual-as</i>    | Accept either real AS or local AS from the ebgp peer                  |

**Command Mode:** neighbor : Configure a BGP neighbor

**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] [13out
<WORD>]
(config-leaf-bgp-vrf-neighbor)# local-as <NUMBER> no-prepend|replace-as|dual-as
```

## local-as <NUMBER> no-prepend|replace-as|dual-as

**Description:** Local Autonomous System Configuration for a BGP Peer

**Syntax:**

|                   |   |
|-------------------|---|
| <1-4294967295>    | The local autonomous system number. Number range from=1 to=4294967295 |
| <i>no-prepend</i> | Do not prepend local-as to updates from ebgp peers                    |
| <i>replace-as</i> | Replace real AS with local AS in the EBGp updates                     |
| <i>dual-as</i>    | Accept either real AS or local AS from the ebgp peer                  |

**Command Mode:** neighbor : Configure a BGP neighbor

**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] [13out
<WORD>]
```

```
(config-leaf-bgp-vrf-neighbor)# local-as <NUMBER> no-prepend|replace-as|dual-as
```

# locality

**locality <WORD>**

**Description:** Set The city or town of the organization.

**Syntax:**

|        |                            |
|--------|----------------------------|
| <WORD> | city or town (Max Size 64) |
|--------|----------------------------|

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

**Command Path:**

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

# logfile

**logfile** [**severity** <severity>] [**format** <format>]

**Description:** Enable the logging to logfile

**Syntax:**

|                 |   |
|-----------------|---|
| <i>severity</i> | (Optional) The severity level for the logs    |
| <i>format</i>   | (Optional) The format for the syslog messages |

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

**Command Path:**

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

# logging

## logging server-group <WORD>

**Description:** Logging server group configuration mode

**Syntax:**

|              |   |
|--------------|---|
| server-group | Logging Server-Group configuration      |
| <i>WORD</i>  | Logging server-group name (Max Size 64) |

**Command Mode:** configure : Configuration Mode

**Command Path:**

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



# logging audit

## logging audit

**Description:** Enable audit and session logs to the policy

**Command Mode:** callhome : Callhome common policy configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# callhome common
(config-callhome)# logging audit
```

## logging audit

**Description:** Enable audit and session logs to the policy

**Command Mode:** smartcallhome : Smart Callhome common policy configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# smartcallhome common
(config-smartcallhome)# logging audit
```

## logging audit

**Description:** Enable audit logs to the policy

**Command Mode:** syslog : Syslog common policy configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# syslog common
(config-syslog)# logging audit
```

# logging description

**logging description** <WORD>

**Description:** Add description for syslog common

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Description (Max Size 128) surrounded by single quotes |
|-------------|--|

**Command Mode:** syslog : Syslog common policy configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# syslog common
(config-syslog)# logging description <WORD>
```

# logging event

## logging event

**Description:** Enable event logs to the policy

**Command Mode:** callhome : Callhome common policy configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# callhome common
(config-callhome)# logging event
```

## logging event

**Description:** Enable event logs to the policy

**Command Mode:** smartcallhome : Smart Callhome common policy configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# smartcallhome common
(config-smartcallhome)# logging event
```

## logging event

**Description:** Enable event logs to the policy

**Command Mode:** syslog : Syslog common policy configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# syslog common
(config-syslog)# logging event
```

# logging fault

## logging fault

**Description:** Enable fault logs to the policy

**Command Mode:** callhome : Callhome common policy configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# callhome common
(config-callhome)# logging fault
```

## logging fault

**Description:** Enable fault logs to the policy

**Command Mode:** smartcallhome : Smart Callhome common policy configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# smartcallhome common
(config-smartcallhome)# logging fault
```

## logging fault

**Description:** Enable fault logs to the policy

**Command Mode:** syslog : Syslog common policy configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# syslog common
(config-syslog)# logging fault
```

# logging server-group

**logging server-group <WORD>**

**Description:** Logging server group configuration

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Logging server-group name (Max Size 64) |
|-------------|---|

**Command Mode:** syslog : Syslog common policy configuration mode

**Command Path:**

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

# logging session

## logging session

**Description:** Enable session logs to the policy

**Command Mode:** syslog : Syslog common policy configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# syslog common
(config-syslog)# logging session
```

# logging severity

**logging severity info|notice|emergency|alert|critical|error|debug|warning**

**Description:** Configure minimum severity level for logs generated

**Syntax:**

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

**Command Mode:** callhome : Callhome common policy configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# callhome common
(config-callhome)# logging severity info|notice|emergency|alert|critical|error|debug|warning
```

**logging severity info|notice|emergency|alert|critical|error|debug|warning**

**Description:** Configure minimum severity level for logs generated

**Syntax:**

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

**Command Mode:** smartcallhome : Smart Callhome common policy configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# smartcallhome common
(config-smartcallhome)# logging severity
info|notice|emergency|alert|critical|error|debug|warning
```

**logging severity emergencies|debugging|critical|errors|warnings|information|alerts|notifications**

**Description:** Configure minimum severity level for logs generated

**Syntax:**

|               |               |
|---------------|---------------|
| emergencies   | Emergencies   |
| debugging     | Debugging     |
| critical      | Critical      |
| errors        | Errors        |
| warnings      | Warnings      |
| information   | Information   |
| alerts        | Alerts        |
| notifications | Notifications |

**Command Mode:** syslog : Syslog common policy configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# syslog common
(config-syslog)# logging severity
emergencies|debugging|critical|errors|warnings|information|alerts|notifications
```



# logit

**logit severity <severity> dest-grp <WORD> server <Remote Dest Name> <Syslog message>**

**Description:** Syslog send message command

**Syntax:**

|                         |   |
|-------------------------|---|
| severity                | The severity level for the logs         |
| <i>severity</i>         | severity                                |
| dest-grp                | Remote destination group                |
| <i>WORD</i>             | Logging server-group name (Max Size 64) |
| server                  | Remote destination name                 |
| <i>Remote Dest Name</i> | The hostname or ipaddress               |
| <i>Syslog message</i>   | Message sent to syslog server           |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# logit severity <severity> dest-grp <WORD> server <Remote Dest Name> <Syslog message>
```

## logit severity dest-grp server node

**logit severity** <severity> dest-grp <WORD> server <Remote Dest Name> <Syslog message> node <Source node>

**Description:** Source node

**Syntax:**

|                         |  |
|-------------------------|--|
| severity                | The severity level for the logs                                |
| <i>severity</i>         | severity   |
| dest-grp                | Remote destination group                                       |
| <i>WORD</i>             | Logging server-group name (Max Size 64)                        |
| server                  | Remote destination name  |
| <i>Remote Dest Name</i> | The hostname or ipaddress                                      |
| <i>Syslog message</i>   | Message sent to syslog server                                  |
| <i>Source node</i>      | leaf or spine node. Number range from=0 to=9223372036854775807 |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# logit severity <severity> dest-grp <WORD> server <Remote Dest Name> <Syslog message> node <Source node>
```

# lsp-fast-flood

## lsp-fast-flood

**Description:** Enables the ISIS LSP fast flood

**Command Mode:** isis : Intermediate System to Intermediate System (IS-IS)

**Command Path:**

```
# configure [['terminal', 't']]
(config)# pod <NUMBER>
(config-pod)# isis fabric
(config-pod-isis)# lsp-fast-flood
```

## lsp-fast-flood

**Description:** Enables the ISIS LSP fast flood

**Command Mode:** template isis-fabric : InterSystem-InterSystem Protocol (IS-IS)

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template isis-fabric <WORD>
(config-template-isis-fabric)# lsp-fast-flood
```

# lsp-gen-interval

**lsp-gen-interval level-1 <NUMBER> <50-120000> <50-120000>**

**Description:** Set the ISIS LSP generation maximal wait interval

**Syntax:**

|                         |  |
|-------------------------|--|
| level-1                 | Level 1  |
| <50-120000>             | LSP generation maximum wait interval. Number range from=50 to=120000 |
| <50-120000> <50-120000> | Initial and secondary wait intervals (both values are required)      |

**Command Mode:** isis : Intermediate System to Intermediate System (IS-IS)

**Command Path:**

```
# configure [['terminal', 't']]
(config)# pod <NUMBER>
(config-pod)# isis fabric
(config-pod-isis)# lsp-gen-interval level-1 <NUMBER> <50-120000> <50-120000>
```

**lsp-gen-interval level-1 <NUMBER> <50-120000> <50-120000>**

**Description:** Set the ISIS LSP generation maximal wait interval

**Syntax:**

|                         |  |
|-------------------------|--|
| level-1                 | Level 1  |
| <50-120000>             | LSP generation maximum wait interval. Number range from=50 to=120000 |
| <50-120000> <50-120000> | Initial and secondary wait intervals (both values are required)      |

**Command Mode:** template isis-fabric : InterSystem-InterSystem Protocol (IS-IS)

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template isis-fabric <WORD>
(config-template-isis-fabric)# lsp-gen-interval level-1 <NUMBER> <50-120000> <50-120000>
```

# lsp-mtu

## lsp-mtu <NUMBER>

**Description:** Set the configuration of link-state packet (LSP) maximum transmission units (MTU) value

**Syntax:**

|            |   |
|------------|---|
| <256-4352> | The configuration of link-state packet (LSP) maximum transmission units (MTU).. Number range from=256 to=4352 |
|------------|---|

**Command Mode:** isis : Intermediate System to Intermediate System (IS-IS)

**Command Path:**

```
# configure [['terminal', 't']]
(config)# pod <NUMBER>
(config-pod)# isis fabric
(config-pod-isis)# lsp-mtu <NUMBER>
```

## lsp-mtu <NUMBER>

**Description:** Set the configuration of link-state packet (LSP) maximum transmission units (MTU) value

**Syntax:**

|            |   |
|------------|---|
| <256-4352> | The configuration of link-state packet (LSP) maximum transmission units (MTU).. Number range from=256 to=4352 |
|------------|---|

**Command Mode:** template isis-fabric : InterSystem-InterSystem Protocol (IS-IS)

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template isis-fabric <WORD>
(config-template-isis-fabric)# lsp-mtu <NUMBER>
```





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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</i> | MAC address (Option 2) |
| <i>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|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 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:**

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

|                            |  |
|----------------------------|--|
| <i>&lt;description&gt;</i> |  |
|----------------------------|--|

**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-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 | --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:** 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>
```





## N Commands

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# name-alias

## name-alias <WORD>

**Description:** Add an Alias to a tenant

**Syntax:**

|             |                               |
|-------------|-------------------------------|
| <i>WORD</i> | Alias Of the mo (Max Size 63) |
|-------------|-------------------------------|

**Command Mode:** tenant : Tenant configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# name-alias <WORD>
```

## name-alias <WORD>

**Description:** Add an Alias to a access-list

**Syntax:**

|             |                               |
|-------------|-------------------------------|
| <i>WORD</i> | Alias Of the mo (Max Size 63) |
|-------------|-------------------------------|

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

**Command Path:**

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

## name-alias <WORD>

**Description:** Add an Alias to a contract

**Syntax:**

|             |                               |
|-------------|-------------------------------|
| <i>WORD</i> | Alias Of the mo (Max Size 63) |
|-------------|-------------------------------|

**Command Mode:** contract : Configure binary contracts between Application EPGs

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# contract <WORD> [type <type>]
(config-tenant-contract)# name-alias <WORD>
```

**name-alias <WORD>****Description:** Add an Alias to a subject**Syntax:**

|             |                               |
|-------------|-------------------------------|
| <i>WORD</i> | Alias Of the mo (Max Size 63) |
|-------------|-------------------------------|

**Command Mode:** subject : Configuration a subject on the contract**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# contract <WORD> [type <type>]
(config-tenant-contract)# subject <WORD>
(config-tenant-contract-subj)# name-alias <WORD>
```

**name-alias <WORD>****Description:** Add an Alias to vrf**Syntax:**

|             |                               |
|-------------|-------------------------------|
| <i>WORD</i> | Alias Of the mo (Max Size 63) |
|-------------|-------------------------------|

**Command Mode:** vrf : Configuration for vrf**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# vrf context <WORD>
(config-tenant-vrf)# name-alias <WORD>
```

**name-alias <WORD>****Description:** Add an Alias to l3out**Syntax:**

|             |                               |
|-------------|-------------------------------|
| <i>WORD</i> | Alias Of the mo (Max Size 63) |
|-------------|-------------------------------|

**Command Mode:** l3out : Configuration for L3Out**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# l3out <WORD>
(config-tenant-l3out)# name-alias <WORD>
```

**name-alias <WORD>****Description:** Add an Alias to a bridge-domain

**Syntax:**

|             |                               |
|-------------|-------------------------------|
| <i>WORD</i> | Alias Of the mo (Max Size 63) |
|-------------|-------------------------------|

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

**Command Path:**

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

**name-alias <WORD>**

**Description:** Add an Alias to Application profile

**Syntax:**

|             |                               |
|-------------|-------------------------------|
| <i>WORD</i> | Alias Of the mo (Max Size 63) |
|-------------|-------------------------------|

**Command Mode:** application : application configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# application <WORD>
(config-tenant-app)# name-alias <WORD>
```

**name-alias <WORD>**

**Description:** Add an Alias to EPG

**Syntax:**

|             |                     |
|-------------|---------------------|
| <i>WORD</i> | Alias (Max Size 63) |
|-------------|---------------------|

**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)# name-alias <WORD>
```

**name-alias <WORD>**

**Description:** Add an Alias to l3out

**Syntax:**

|             |                               |
|-------------|-------------------------------|
| <i>WORD</i> | Alias Of the mo (Max Size 63) |
|-------------|-------------------------------|



**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)# name-alias <WORD>
```

# name-lookup

## name-lookup

**Description:** Display OSPF router ids as DNS names

**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)# name-lookup
```

## name-lookup

**Description:** Display OSPF router ids as DNS names

**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)# name-lookup
```

# name

## name <WORD>

**Description:** Configure the name for this key for easy identification

**Syntax:**

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

**Command Mode:** key : Configure CKN as hex string of max 64 characters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template macsec access|fabric keychain <WORD>
(config-macsec-keychain)# key <WORD>
(config-macsec-keychain-key)# name <WORD>
```

## name <WORD>

**Description:** Redundancy name string

**Syntax:**

|             |                            |
|-------------|----------------------------|
| <i>WORD</i> | Name string (Max Size 250) |
|-------------|----------------------------|

**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)# name <WORD>
```

## name <WORD>

**Description:** Redundancy name string

**Syntax:**

|             |                            |
|-------------|----------------------------|
| <i>WORD</i> | Name string (Max Size 250) |
|-------------|----------------------------|

**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)# name <WORD>
```

### name <WORD>

**Description:** Redundancy name string

#### Syntax:

|             |                            |
|-------------|----------------------------|
| <i>WORD</i> | Name string (Max Size 250) |
|-------------|----------------------------|

**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)# name <WORD>
```

### name <WORD>

**Description:** Redundancy name string

#### Syntax:

|             |                            |
|-------------|----------------------------|
| <i>WORD</i> | Name string (Max Size 250) |
|-------------|----------------------------|

**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)# name <WORD>
```

# negotiate

## negotiate auto

**Description:** Configure link negotiation parameters

**Syntax:**

|      |                            |
|------|----------------------------|
| auto | Configure auto-negotiation |
|------|----------------------------|

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

**Command Path:**

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

## negotiate auto

**Description:** Configure link negotiation parameters

**Syntax:**

|      |                            |
|------|----------------------------|
| auto | Configure auto-negotiation |
|------|----------------------------|

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

**Command Path:**

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

## negotiate auto

**Description:** Configure link negotiation parameters

**Syntax:**

|      |                            |
|------|----------------------------|
| auto | Configure auto-negotiation |
|------|----------------------------|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template spine-interface-policy-group <WORD>
(config-spine-if-pol-grp)# negotiate auto
```

**negotiate auto****Description:** Configure link negotiation parameters**Syntax:**

|      |                            |
|------|----------------------------|
| auto | Configure auto-negotiation |
|------|----------------------------|

**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)# negotiate auto
```

**negotiate auto****Description:** Configure link negotiation parameters**Syntax:**

|      |                            |
|------|----------------------------|
| auto | Configure auto-negotiation |
|------|----------------------------|

**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)# negotiate auto
```

**negotiate auto****Description:** Configure link negotiation parameters**Syntax:**

|      |                            |
|------|----------------------------|
| auto | Configure auto-negotiation |
|------|----------------------------|

**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)# negotiate auto
```

**negotiate auto****Description:** Configure link negotiation parameters**Syntax:**

|      |                            |
|------|----------------------------|
| auto | Configure auto-negotiation |
|------|----------------------------|

**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)# negotiate auto
```

### negotiate auto

**Description:** Configure link negotiation parameters

**Syntax:**

|      |                            |
|------|----------------------------|
| auto | Configure auto-negotiation |
|------|----------------------------|

**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)# negotiate auto
```

# neighbor-discovery

## neighbor-discovery

**Description:** Config trust neighbor discovery protocol in trust control policy

**Command Mode:** trust-control : Configuration for trust control policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# first-hop-security
(config-tenant-fhs)# trust-control <WORD>
(config-tenant-fhs-trustctrl)# neighbor-discovery
```



# neighbor

**neighbor** *A.B.C.D|A.B.C.D/LEN|A:B::C:D|A:B::C:D/LEN* [*evpn*] [*l3out* <*WORD*>]

**Description:** Configure a BGP neighbor

**Syntax:**

|                     |   |
|---------------------|---|
| <i>A.B.C.D</i>      | IP address of the neighbor                              |
| <i>A.B.C.D/LEN</i>  | IP prefix for neighbors                                 |
| <i>A:B::C:D</i>     | IPv6 address of the neighbor                            |
| <i>A:B::C:D/LEN</i> | IPv6 prefix for neighbors                               |
| <i>evpn</i>         | (Optional) Make this a shared EVPN BGP session for GOLF |
| <i>WORD</i>         | (Optional) Route-Map Name (API-configured L3Out Name)   |

**Command Mode:** vrf : Virtual Router Context

**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>]
```

**neighbor** *A.B.C.D|A.B.C.D/LEN|A:B::C:D|A:B::C:D/LEN* [*evpn*] [*l3out* <*WORD*>]

**Description:** Configure a BGP neighbor

**Syntax:**

|                     |   |
|---------------------|---|
| <i>A.B.C.D</i>      | IP address of the neighbor                              |
| <i>A.B.C.D/LEN</i>  | IP prefix for neighbors                                 |
| <i>A:B::C:D</i>     | IPv6 address of the neighbor                            |
| <i>A:B::C:D/LEN</i> | IPv6 prefix for neighbors                               |
| <i>evpn</i>         | (Optional) Make this a shared EVPN BGP session for GOLF |
| <i>WORD</i>         | (Optional) Route-Map Name (API-configured L3Out Name)   |

**Command Mode:** vrf : Virtual Router Context

**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>]
```

# network

## network bcast|p2p|unspecified

**Description:** Set OSPF interface policy network type

**Syntax:**

|                    |   |
|--------------------|---|
| <i>bcast</i>       | The OSPF interface policy network type. OSPF supports point-to-point and broadcast. |
| <i>p2p</i>         | The OSPF interface policy network type. OSPF supports point-to-point and broadcast. |
| <i>unspecified</i> | The OSPF interface policy network type. OSPF supports point-to-point and broadcast. |

**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)# network bcast|p2p|unspecified
```

## network bcast|p2p|unspecified

**Description:** Set OSPF interface policy network type

**Syntax:**

|                    |   |
|--------------------|---|
| <i>bcast</i>       | The OSPF interface policy network type. OSPF supports point-to-point and broadcast. |
| <i>p2p</i>         | The OSPF interface policy network type. OSPF supports point-to-point and broadcast. |
| <i>unspecified</i> | The OSPF interface policy network type. OSPF supports point-to-point and broadcast. |

**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)# network bcast|p2p|unspecified
```

# next-hop-self

## next-hop-self

**Description:** Set our peering address as nexthop

**Command Mode:** neighbor : Configure a BGP neighbor

**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)# next-hop-self
```

## next-hop-self

**Description:** Set our peering address as nexthop

**Command Mode:** neighbor : Configure a BGP neighbor

**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)# next-hop-self
```

# node-control

**node-control policy <WORD>**

**Description:** Create a Node Control Policy

**Syntax:**

|             |  |
|-------------|--|
| policy      | Create a node control policy           |
| <i>WORD</i> | Node control policy name (Max Size 64) |

**Command Mode:** configure : Configuration Mode

**Command Path:**

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

# npv

## npv auto-load-balance disruptive

**Description:** Configure auto load balancing on the switch

**Syntax:**

|                   |                                     |
|-------------------|-------------------------------------|
| auto-load-balance | Configure auto load balancing       |
| disruptive        | Configure disruptive load balancing |

**Command Mode:** template fc-leaf-policy : Configure FC Leaf Policy(Max Size 64)

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template fc-leaf-policy <WORD>
(config-fc-leaf-policy)# npv auto-load-balance disruptive
```

# npv auto-load-balance

## npv auto-load-balance disruptive

**Description:** Configure auto load balancing

**Syntax:**

|            |                                     |
|------------|-------------------------------------|
| disruptive | Configure disruptive load balancing |
|------------|-------------------------------------|

**Command Mode:** leaf : Configure Leaf Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# npv auto-load-balance disruptive
```

## npv auto-load-balance disruptive

**Description:** Configure auto load balancing

**Syntax:**

|            |                                     |
|------------|-------------------------------------|
| disruptive | Configure disruptive load balancing |
|------------|-------------------------------------|

**Command Mode:** spine : Configure Spine Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# npv auto-load-balance disruptive
```

# npv traffic-map external-interface fc-port-channel

**npv traffic-map external-interface fc-port-channel** <ifRange> tenant <WORD> label <WORD>

**Description:** FC Port Channel interface

**Syntax:**

|           |  |
|-----------|--|
| <ifRange> | Port-channel name                                |
| tenant    | Tenant name                                      |
| WORD      | Tenant hosting the pinning Profile (Max Size 63) |
| label     | Pinning label                                    |
| WORD      | Pinning Profile Name (Max Size 64)               |

**Command Mode:** leaf : Configure Leaf Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# npv traffic-map external-interface fc-port-channel <ifRange> tenant <WORD>
label <WORD>
```

**npv traffic-map external-interface fc-port-channel** <ifRange> tenant <WORD> label <WORD>

**Description:** FC Port Channel interface

**Syntax:**

|           |  |
|-----------|--|
| <ifRange> | Port-channel name                                |
| tenant    | Tenant name                                      |
| WORD      | Tenant hosting the pinning Profile (Max Size 63) |
| label     | Pinning label                                    |
| WORD      | Pinning Profile Name (Max Size 64)               |

**Command Mode:** spine : Configure Spine Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# npv traffic-map external-interface fc-port-channel <ifRange> tenant <WORD>
label <WORD>
```



# npv traffic-map external-interface fc

**npv traffic-map external-interface fc <ifRange> tenant <WORD> label <WORD>**

**Description:** Virtual Fiber Channel interface

**Syntax:**

|           |  |
|-----------|--|
| <ifRange> | interface Range                                  |
| tenant    | Tenant name                                      |
| WORD      | Tenant hosting the pinning Profile (Max Size 63) |
| label     | Pinning label                                    |
| WORD      | Pinning Profile Name (Max Size 64)               |

**Command Mode:** leaf : Configure Leaf Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# npv traffic-map external-interface fc <ifRange> tenant <WORD> label <WORD>
```

**npv traffic-map external-interface fc <ifRange> tenant <WORD> label <WORD>**

**Description:** Virtual Fiber Channel interface

**Syntax:**

|           |  |
|-----------|--|
| <ifRange> | interface Range                                  |
| tenant    | Tenant name                                      |
| WORD      | Tenant hosting the pinning Profile (Max Size 63) |
| label     | Pinning label                                    |
| WORD      | Pinning Profile Name (Max Size 64)               |

**Command Mode:** spine : Configure Spine Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# npv traffic-map external-interface fc <ifRange> tenant <WORD> label <WORD>
```

## npv traffic-map external-interface vfc-po

**npv traffic-map external-interface vfc-po** <ifRange> tenant <WORD> label <WORD>

**Description:** VFC Port Channel interface

**Syntax:**

|           |  |
|-----------|--|
| <ifRange> | Port-channel name                                |
| tenant    | Tenant name                                      |
| WORD      | Tenant hosting the pinning Profile (Max Size 63) |
| label     | Pinning label                                    |
| WORD      | Pinning Profile Name (Max Size 64)               |

**Command Mode:** leaf : Configure Leaf Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# npv traffic-map external-interface vfc-po <ifRange> tenant <WORD> label
<WORD>
```

**npv traffic-map external-interface vfc-po** <ifRange> tenant <WORD> label <WORD>

**Description:** VFC Port Channel interface

**Syntax:**

|           |  |
|-----------|--|
| <ifRange> | Port-channel name                                |
| tenant    | Tenant name                                      |
| WORD      | Tenant hosting the pinning Profile (Max Size 63) |
| label     | Pinning label                                    |
| WORD      | Pinning Profile Name (Max Size 64)               |

**Command Mode:** spine : Configure Spine Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# npv traffic-map external-interface vfc-po <ifRange> tenant <WORD> label
<WORD>
```

# npv traffic-map external-interface vfc

**npv traffic-map external-interface vfc** <ifRange> tenant <WORD> label <WORD>

**Description:** Virtual Fiber Channel interface

**Syntax:**

|           |  |
|-----------|--|
| <ifRange> | interface Range                                  |
| tenant    | Tenant name                                      |
| WORD      | Tenant hosting the pinning Profile (Max Size 63) |
| label     | Pinning label                                    |
| WORD      | Pinning Profile Name (Max Size 64)               |

**Command Mode:** leaf : Configure Leaf Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# npv traffic-map external-interface vfc <ifRange> tenant <WORD> label <WORD>
```

**npv traffic-map external-interface vfc** <ifRange> tenant <WORD> label <WORD>

**Description:** Virtual Fiber Channel interface

**Syntax:**

|           |  |
|-----------|--|
| <ifRange> | interface Range                                  |
| tenant    | Tenant name                                      |
| WORD      | Tenant hosting the pinning Profile (Max Size 63) |
| label     | Pinning label                                    |
| WORD      | Pinning Profile Name (Max Size 64)               |

**Command Mode:** spine : Configure Spine Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# npv traffic-map external-interface vfc <ifRange> tenant <WORD> label <WORD>
```

## npv traffic-map server-interface fc

**npv traffic-map server-interface fc <ifRange> label <WORD> tenant <WORD> application <WORD> epg <WORD>**

**Description:** Fiber Channel interface

**Syntax:**

|             |  |
|-------------|--|
| <ifRange>   | interface Range  |
| label       | Pinning label  |
| WORD        | Pinning Label Name (Max Size 64)                         |
| tenant      | Tenant name  |
| WORD        | Tenant hosting the pinning Label (Max Size 63)           |
| application | Add an AEPg as static encap                              |
| WORD        | Application Name (Max Size 64)                           |
| epg         | EPg that uses the statically enabled Encap               |
| WORD        | EPg that uses the statically enabled Encap (Max Size 64) |

**Command Mode:** leaf : Configure Leaf Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# npv traffic-map server-interface fc <ifRange> label <WORD> tenant <WORD>
application <WORD> epg <WORD>
```

**npv traffic-map server-interface fc <ifRange> label <WORD> tenant <WORD> application <WORD> epg <WORD>**

**Description:** Fiber Channel interface

**Syntax:**

|             |  |
|-------------|--|
| <ifRange>   | interface Range                                |
| label       | Pinning label                                  |
| WORD        | Pinning Label Name (Max Size 64)               |
| tenant      | Tenant name                                    |
| WORD        | Tenant hosting the pinning Label (Max Size 63) |
| application | Add an AEPg as static encap                    |

|             |  |
|-------------|--|
| <i>WORD</i> | Application Name (Max Size 64)                           |
| epg         | EPg that uses the statically enabled Encap               |
| <i>WORD</i> | EPg that uses the statically enabled Encap (Max Size 64) |

**Command Mode:** spine : Configure Spine Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# npv traffic-map server-interface fc <ifRange> label <WORD> tenant <WORD>
application <WORD> epg <WORD>
```

## npv traffic-map server-interface vfc-po

**npv traffic-map server-interface vfc-po <WORD> label <WORD> tenant <WORD> application <WORD> epg <WORD>**

**Description:** VFC Port Channel interface

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Port-Channel Name (Max Size 64)                          |
| label       | Pinning label  |
| <i>WORD</i> | Pinning Label Name (Max Size 64)                         |
| tenant      | Tenant name  |
| <i>WORD</i> | Tenant hosting the pinning Label (Max Size 63)           |
| application | Add an AEPg as static encap                              |
| <i>WORD</i> | Application Name (Max Size 64)                           |
| epg         | EPg that uses the statically enabled Encap               |
| <i>WORD</i> | EPg that uses the statically enabled Encap (Max Size 64) |

**Command Mode:** leaf : Configure Leaf Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# npv traffic-map server-interface vfc-po <WORD> label <WORD> tenant <WORD>
application <WORD> epg <WORD>
```

**npv traffic-map server-interface vfc-po <WORD> label <WORD> tenant <WORD> application <WORD> epg <WORD>**

**Description:** VFC Port Channel interface

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Port-Channel Name (Max Size 64)                |
| label       | Pinning label                                  |
| <i>WORD</i> | Pinning Label Name (Max Size 64)               |
| tenant      | Tenant name                                    |
| <i>WORD</i> | Tenant hosting the pinning Label (Max Size 63) |
| application | Add an AEPg as static encap                    |

|             |  |
|-------------|--|
| <i>WORD</i> | Application Name (Max Size 64)                           |
| epg         | EPg that uses the statically enabled Encap               |
| <i>WORD</i> | EPg that uses the statically enabled Encap (Max Size 64) |

**Command Mode:** spine : Configure Spine Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# npv traffic-map server-interface vfc-po <WORD> label <WORD> tenant <WORD>
application <WORD> epg <WORD>
```

## npv traffic-map server-interface vfc

**npv traffic-map server-interface vfc** <ifRange> label <WORD> tenant <WORD> application <WORD> epg <WORD>

**Description:** Virtual Fiber Channel interface

**Syntax:**

|             |  |
|-------------|--|
| <ifRange>   | interface Range  |
| label       | Pinning label  |
| WORD        | Pinning Label Name (Max Size 64)                         |
| tenant      | Tenant name  |
| WORD        | Tenant hosting the pinning Label (Max Size 63)           |
| application | Add an AEPg as static encap                              |
| WORD        | Application Name (Max Size 64)                           |
| epg         | EPg that uses the statically enabled Encap               |
| WORD        | EPg that uses the statically enabled Encap (Max Size 64) |

**Command Mode:** leaf : Configure Leaf Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# npv traffic-map server-interface vfc <ifRange> label <WORD> tenant <WORD>
application <WORD> epg <WORD>
```

**npv traffic-map server-interface vfc** <ifRange> label <WORD> tenant <WORD> application <WORD> epg <WORD>

**Description:** Virtual Fiber Channel interface

**Syntax:**

|             |  |
|-------------|--|
| <ifRange>   | interface Range                                |
| label       | Pinning label                                  |
| WORD        | Pinning Label Name (Max Size 64)               |
| tenant      | Tenant name                                    |
| WORD        | Tenant hosting the pinning Label (Max Size 63) |
| application | Add an AEPg as static encap                    |



|             |  |
|-------------|--|
| <i>WORD</i> | Application Name (Max Size 64)                           |
| epg         | EPg that uses the statically enabled Encap               |
| <i>WORD</i> | EPg that uses the statically enabled Encap (Max Size 64) |

**Command Mode:** spine : Configure Spine Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# npv traffic-map server-interface vfc <ifRange> label <WORD> tenant <WORD>
application <WORD> epg <WORD>
```

# ntp

## ntp

**Description:** Configure the default ntp policy

**Command Mode:** pod : Pod configuration mode

**Command Path:**

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

# numlinks

**numlinks** <NUMBER>

**Description:** Set maximum number of uplinks

**Syntax:**

|            |   |
|------------|---|
| <numLinks> | Maximum number of uplinks. Number range from=2 to=8 |
|------------|---|

**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)# numlinks <NUMBER>
```





## O Commands

---

- [oob-mgmt](#), on page 1172
- [oob-mgmt epg](#), on page 1173
- [optimize](#), on page 1174
- [option](#), on page 1175
- [org-name](#), on page 1176
- [org-unit-name](#), on page 1177
- [other-config-check](#), on page 1178
- [other-config-flag](#), on page 1179

# oob-mgmt

## **oob-mgmt epg <epgval>**

**Description:** Creates/Modify the out of band mgmt under the tenant mgmt

### **Syntax:**

|                            |   |
|----------------------------|---|
| <code>epg</code>           | epg is keyword ,refers to out of band epg                           |
| <code><i>epgval</i></code> | epg name for the out of band epg created/modified under tenant mgmt |

**Command Mode:** tenant : Tenant configuration mode

### **Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# oob-mgmt epg <epgval>
```

# oob-mgmt epg

## oob-mgmt epg <WORD>

**Description:** Associate node to a Out of band EPG

**Syntax:**

|             |                                  |
|-------------|----------------------------------|
| <i>WORD</i> | Out of band End Point Group Name |
|-------------|----------------------------------|

**Command Mode:** interface mgmt0 : Out of band management interface

**Command Path:**

```
# configure [['terminal', 't']]
(config)# controller
(config-controller)# interface mgmt0
(config-controller-if)# oob-mgmt epg <WORD>
```

## oob-mgmt epg <WORD>

**Description:** Associate node to a Out of band EPG

**Syntax:**

|             |                                  |
|-------------|----------------------------------|
| <i>WORD</i> | Out of band End Point Group Name |
|-------------|----------------------------------|

**Command Mode:** interface mgmt0 : Out of band management interface

**Command Path:**

```
# configure [['terminal', 't']]
(config)# switch
(config-switch)# interface mgmt0
(config-switch-if)# oob-mgmt epg <WORD>
```

# optimize

## optimize subinterface

**Description:** Disable sub-interface optimization

**Syntax:**

|              |              |
|--------------|--------------|
| subinterface | subinterface |
|--------------|--------------|

**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)# optimize subinterface
```

## optimize subinterface

**Description:** Disable sub-interface optimization

**Syntax:**

|              |              |
|--------------|--------------|
| subinterface | subinterface |
|--------------|--------------|

**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)# optimize subinterface
```



# option

**option** <WORD> id <NUMBER> [data <WORD>]

**Description:** Add or modify an existing DHCP option when relayed from the server to the client

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Name of the option to add (Max Size 64)  |
| id          | ID of the option   |
| <0-255>     | ID of the option. Number range from=0 to=255   |
| <i>WORD</i> | (Optional) Body of the Option TLV as hex string, surrounded by single quotes ex: 'foo*' (Max Size 256) |

**Command Mode:** template dhcp option : Create a DHCP Option policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template dhcp option policy <WORD>
(config-tenant-template-dhcp-option)# option <WORD> id <NUMBER> [data <WORD>]
```

# org-name

**org-name** <WORD>

**Description:** Set The full legal name of the organization.

**Syntax:**

|        |  |
|--------|--|
| <WORD> | legal name of organization (Max Size 64) |
|--------|--|

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

**Command Path:**

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

# org-unit-name

**org-unit-name** <WORD>

**Description:** Set the department or unit name within the organization

**Syntax:**

|        |                                       |
|--------|---------------------------------------|
| <WORD> | department or unit name (Max Size 64) |
|--------|---------------------------------------|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# crypto keyring <WORD>
(config-keyring)# csr
(config-csr)# org-unit-name <WORD>
```

# other-config-check

## other-config-check

**Description:** Enable other stateful 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)# other-config-check
```

# other-config-flag

## other-config-flag

**Description:** Set other stateful 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)# other-config-flag
```





## P Commands

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- [passphrase](#), on page 1184
- [passwd](#), on page 1185
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# passive-interface

## passive-interface

**Description:** Suppress routing updates on the interface

**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)# passive-interface
```

## passive-interface

**Description:** Suppress routing updates on the interface

**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)# passive-interface
```

# passphrase

## passphrase

**Description:** Configure passphrase for AES encryption

**Command Mode:** crypto aes : AES encryption configuration

**Command Path:**

```
# configure [['terminal', 't']]
(config)# crypto aes
(config-aes)# passphrase
```

# passwd

**passwd**

**Description:** Update user's authentication tokens

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# passwd
```

# password

## password

**Description:** Set The system user password.

**Command Mode:** username : Create a locally-authenticated user account

**Command Path:**

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

## password

**Description:** Set The new password.

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

**Command Path:**

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

## password <password>

**Description:** Password

**Syntax:**

|                 |          |
|-----------------|----------|
| <i>password</i> | Password |
|-----------------|----------|

**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)# password <password>
```

## password WORD

**Description:** Configure a password for neighbor

**Syntax:**

|             |                           |
|-------------|---------------------------|
| <i>WORD</i> | Enter Clear-text password |
|-------------|---------------------------|

**Command Mode:** neighbor : Configure a BGP neighbor

**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)# password WORD
```

**password WORD**

**Description:** Configure a password for neighbor

**Syntax:**

|             |                           |
|-------------|---------------------------|
| <i>WORD</i> | Enter Clear-text password |
|-------------|---------------------------|

**Command Mode:** neighbor : Configure a BGP neighbor

**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)# password WORD
```

# password change-count

**password change-count** <NUMBER>

**Description:** Set the number of password changes allowed within change interval

**Syntax:**

|        |   |
|--------|---|
| <0-10> | Set the number of password changes allowed within change interval.<br>Number range from=0 to=10 |
|--------|---|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# password change-count <NUMBER>
```

# password change-during-interval

**password change-during-interval** <change-during-interval>

**Description:** Set change count/interval policy selector for enforcing password change.

**Syntax:**

|                          |                          |
|--------------------------|--------------------------|
| <change-during-interval> | <change-during-interval> |
|--------------------------|--------------------------|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# password change-during-interval <change-during-interval>
```

# password change-interval

**password change-interval** <NUMBER>

**Description:** Set time interval for limiting the number of password changes (unit: Hours)

**Syntax:**

|         |   |
|---------|---|
| <1-745> | Set A time interval for limiting the number of password changes (unit: Hours). Number range from=1 to=745 |
|---------|---|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# password change-interval <NUMBER>
```



# password change-password

## password change-password

**Description:** change the current password and set a new one

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]  
(config)# password change-password
```

# password history-count

**password history-count** <NUMBER>

**Description:** Set number of retired passwords to store in user's history.

**Syntax:**

|        |  |
|--------|--|
| <0-15> | Set number of retired passwords to store in user history.. Number range from=0 to=15 |
|--------|--|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# password history-count <NUMBER>
```

# password no-change-interval

**password no-change-interval <NUMBER>**

**Description:** Set minimum period before which user cannot change password again (unit: hours)

**Syntax:**

|         |   |
|---------|---|
| <1-745> | Set minimum period before which user cannot change password again (unit: hours). Number range from=1 to=745 |
|---------|---|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# password no-change-interval <NUMBER>
```

## password pwd-rules

**password pwd-rules minimum-length <minimum-length> maximum-length <maximum-length> pwd-rule default|custom custom-password-class ULD|ULSp|UDSp|LDSp|ULDSp**

**Description:** Enables the configuration of password rules

**Syntax:**

|                       |                                       |
|-----------------------|---------------------------------------|
| minimum-length        | Minimum Password Length               |
| <minimum-length>      | Minimum Password Length( > = 8)       |
| maximum-length        | Maximum Password Length               |
| <maximum-length>      | Maximum Password Length(< = 64        |
| pwd-rule              | Password Rule                         |
| default               | Use system default password rules     |
| custom                | Use custom password rules             |
| custom-password-class | Custom Password Class                 |
| ULD                   | Uppercase-Lowercase-Digit             |
| ULSp                  | Uppercase-Lowercase-Specialchar       |
| UDSp                  | Uppercase-Digit-Specialchar           |
| LDSp                  | Lowercase-Digit-Specialchar           |
| ULDSp                 | Uppercase-Lowercase-Digit-Specialchar |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# password pwd-rules minimum-length <minimum-length> maximum-length <maximum-length>
pwd-rule default|custom custom-password-class ULD|ULSp|UDSp|LDSp|ULDSp
```

# password pwd-strength-check

## password pwd-strength-check

**Description:** Enforces the strength of password for all users

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# password pwd-strength-check
```

# path

**path ftp|sftp|scp <HOST> [port <NUMBER>] [remote-directory <PATH>]**

**Description:** Configure remote path properties

**Syntax:**

|             |  |
|-------------|--|
| ftp         | FTP  |
| sftp        | Secure FTP   |
| scp         | Secure copy  |
| <i>HOST</i> | Remote host name or IP address                       |
| <0-65535>   | (Optional) Remote port. Number range from=0 to=65535 |
| <i>PATH</i> | (Optional) Remote directory: path/to/some/dir        |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# remote path <WORD>
(config-remote)# path ftp|sftp|scp <HOST> [port <NUMBER>] [remote-directory <PATH>]
```

# pause

**pause no-drop cos <NUMBER> [fabric]**

**Description:** Configure class based flow control characteristics

**Syntax:**

|            |  |
|------------|--|
| no-drop    | Configure class based flow control characteristics   |
| cos        | Configure class of service                           |
| <interval> | Configure class of service. Number range from=0 to=7 |
| fabric     | (Optional) Set scope to Fabric, default is Tor       |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# qos parameters <WORD>
(config-qos)# pause no-drop cos <NUMBER> [fabric]
```

# peer-dead-interval

**peer-dead-interval** <NUMBER>

**Description:** Configure Peer dead Interval

**Syntax:**

|         |  |
|---------|--|
| <5-600> | Peer dead Interval value. Number range from=5 to=600 |
|---------|--|

**Command Mode:** vpc domain explicit : Pair two leaf nodes explicitly

**Command Path:**

```
# configure [['terminal', 't']]
(config)# vpc domain explicit <NUMBER> leaf <101-4000> <101-4000>
(config-vpc)# peer-dead-interval <NUMBER>
```



# periodic-inventory notification

## periodic-inventory notification schedule <schedName>

**Description:** Configure periodic notifications Parameters

**Syntax:**

|             |   |
|-------------|---|
| schedule    | Configure periodic notification scheduler |
| <schedName> | scheduler name                            |

**Command Mode:** callhome : Callhome common policy configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# callhome common
(config-callhome)# periodic-inventory notification schedule <schedName>
```

## periodic-inventory notification schedule <schedName>

**Description:** Configure periodic notifications Parameters

**Syntax:**

|             |   |
|-------------|---|
| schedule    | Configure periodic notification scheduler |
| <schedName> | scheduler name                            |

**Command Mode:** smartcallhome : Smart Callhome common policy configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# smartcallhome common
(config-smartcallhome)# periodic-inventory notification schedule <schedName>
```

# permit

**permit** [**src-ip** <A.B.C.D/LEN>] [**src-ipv6** <A:B::C:D/LEN>] [**dst-ip** <A.B.C.D/LEN >] [**dst-ipv6** <A:B::C:D/LEN >] [**proto** <proto>] [**src-port** <from>-<to>] **contained in** <0-65535>] [**dst-port** <from>-<to>] **contained in** <0-65535>]

**Description:** Create leaf acl policy

## Syntax:

|   |  |
|---|--|
| <i>A.B.C.D/LEN</i>  | (Optional) IP prefix network/length, e.g., 35.0.0.0/8  |
| <i>A:B::C:D/LEN</i>   | (Optional) IPv6 prefix network/length, e.g., 2001::/64 |
| <i>A.B.C.D/LEN</i>  | (Optional) IP prefix network/length, e.g., 35.0.0.0/8  |
| <i>A:B::C:D/LEN</i>   | (Optional) IPv6 prefix network/length, e.g., 2001::/64 |
| <i>proto</i>  | (Optional) Protocol                                    |
| <i>&lt;from&gt;-&lt;to&gt; contained in &lt;0-65535&gt;</i> | (Optional) Source port Range                           |
| <i>&lt;from&gt;-&lt;to&gt; contained in &lt;0-65535&gt;</i> | (Optional) Destination port Range                      |

**Command Mode:** template control-plane-policing-prefilter-leaf : Create leaf ACL policy to police/reclassify the traffic

## Command Path:

```
# configure [['terminal', 't']]
(config)# template control-plane-policing-prefilter-leaf <WORD>
(config-control-plane-policing-prefilter-leaf)# permit [src-ip <A.B.C.D/LEN>] [src-ipv6
<A:B::C:D/LEN>] [dst-ip <A.B.C.D/LEN >] [dst-ipv6 <A:B::C:D/LEN >] [proto <proto>] [src-port
<from>-<to>] contained in <0-65535>] [dst-port <from>-<to>] contained in <0-65535>]
```

**permit** [**src-ip** <A.B.C.D/LEN>] [**src-ipv6** <A:B::C:D/LEN>] [**dst-ip** <A.B.C.D/LEN >] [**dst-ipv6** <A:B::C:D/LEN >] [**proto** <proto>] [**src-port** <from>-<to>] **contained in** <0-65535>] [**dst-port** <from>-<to>] **contained in** <0-65535>]

**Description:** Create spine acl policy

## Syntax:

|                     |  |
|---------------------|--|
| <i>A.B.C.D/LEN</i>  | (Optional) IP prefix network/length, e.g., 35.0.0.0/8  |
| <i>A:B::C:D/LEN</i> | (Optional) IPv6 prefix network/length, e.g., 2001::/64 |
| <i>A.B.C.D/LEN</i>  | (Optional) IP prefix network/length, e.g., 35.0.0.0/8  |
| <i>A:B::C:D/LEN</i> | (Optional) IPv6 prefix network/length, e.g., 2001::/64 |
| <i>proto</i>        | (Optional) Protocol                                    |

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

**Command Mode:** template control-plane-policing-prefilter-spine : Create spine ACL policy to police/reclassify the traffic

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template control-plane-policing-prefilter-spine <WORD>
(config-control-plane-policing-prefilter-spine)# permit [src-ip <A.B.C.D/LEN>] [src-ipv6
<A:B::C:D/LEN>] [dst-ip <A.B.C.D/LEN >] [dst-ipv6 <A:B::C:D/LEN >] [proto <proto>] [src-port
<from>-[<to>] contained in <0-65535>] [dst-port <from>-[<to>] contained in <0-65535>]
```

# phone-contact

## phone-contact <WORD>

**Description:** The contact phone number

### Syntax:

|             |   |
|-------------|---|
| <i>WORD</i> | Phone number in international format(such as +1-800-123-4567) (Max Size 16) |
|-------------|---|

**Command Mode:** destination-profile : Configure destination profile Parameters

### Command Path:

```
# configure [['terminal', 't']]
(config)# callhome common
(config-callhome)# destination-profile
(config-callhome-destnprof)# phone-contact <WORD>
```

## phone-contact <WORD>

**Description:** The contact phone number

### Syntax:

|             |   |
|-------------|---|
| <i>WORD</i> | Phone number in international format(such as +1-800-123-4567) (Max Size 16) |
|-------------|---|

**Command Mode:** destination-profile : Configure destination profile Parameters

### Command Path:

```
# configure [['terminal', 't']]
(config)# smartcallhome common
(config-smartcallhome)# destination-profile
(config-callhome-destnprof)# phone-contact <WORD>
```

# phone

**phone** <WORD>

**Description:** Set The phone number of the locally-authenticated user.

**Syntax:**

|             |                            |
|-------------|----------------------------|
| <i>WORD</i> | phone number (Max Size 16) |
|-------------|----------------------------|

**Command Mode:** username : Create a locally-authenticated user account

**Command Path:**

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

# pod-profile

**pod-profile** <WORD>

**Description:** POD Profile

**Syntax:**

|             |                                |
|-------------|--------------------------------|
| <i>WORD</i> | Pod Profile Name (Max Size 64) |
|-------------|--------------------------------|

**Command Mode:** configure : Configuration Mode

**Command Path:**

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

# pod

## pod <NUMBER>

**Description:** Pod configuration mode

**Syntax:**

|       |  |
|-------|--|
| <I-I> | Enter Pod ID. Number range from=1 to=1 |
|-------|--|

**Command Mode:** configure : Configuration Mode

**Command Path:**

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

## pod <NUMBER>

**Description:** Pod Profile

**Syntax:**

|      |                                    |
|------|------------------------------------|
| <ID> | Pod ID. Number range from=1 to=255 |
|------|------------------------------------|

**Command Mode:** fabric-external : Intrasite/Intersite Connectivity Profile

**Command Path:**

```
# configure [['terminal', 't']]
(config)# fabric-external <NUMBER>
(config-fabric-external)# pod <NUMBER>
```

## pod <1-255>

**Description:** Add pods to zone

**Syntax:**

|         |               |
|---------|---------------|
| <I-255> | Range of Pods |
|---------|---------------|

**Command Mode:** zone : Create zone policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# zones
(config-zones)# zone <WORD>
(config-zone)# pod <1-255>
```

# pods

**pods <1-255>**

**Description:** Set of PODs

**Syntax:**

|         |               |
|---------|---------------|
| <1-255> | Range of Pods |
|---------|---------------|

**Command Mode:** pod-profile : POD Profile

**Command Path:**

```
# configure [['terminal', 't']]
(config)# pod-profile <WORD>
(config-pod-profile)# pods <1-255>
```



# policeact

**policeact** <arg>

**Description:** Policing Action

**Syntax:**

|            |                 |
|------------|-----------------|
| <i>arg</i> | Policing Action |
|------------|-----------------|

**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)# policeact <>
```

# policy-group

## policy-group <WORD>

**Description:** Associate an Interface Policy Group to this Interface Group

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Interface Policy Group Name (Max Size 64) |
|-------------|---|

**Command Mode:** leaf-interface-group : Configure Leaf Interface Group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf-interface-profile <WORD>
(config-leaf-if-profile)# leaf-interface-group <WORD>
(config-leaf-if-group)# policy-group <WORD>
```

## policy-group <WORD>

**Description:** Configure Policy Group on the Fex

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Interface Policy Group Name (Max Size 64) |
|-------------|---|

**Command Mode:** fex-interface-group : Configure Fex Interface Group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# fex-profile <WORD>
(config-fex-profile)# fex-interface-group <WORD>
(config-fex-if-group)# policy-group <WORD>
```

## policy-group <WORD> [force]

**Description:** Configure Leaf Interface Policy Group

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Interface Policy Group Name (Max Size 64)   |
| force       | (Optional) Delete Per Port Configuration and apply the existing policy-group config |

**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)# policy-group <WORD> [force]
```

### **policy-group <WORD> [force]**

**Description:** Configure Leaf Interface Policy Group

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Interface Policy Group Name (Max Size 64)   |
| force       | (Optional) Delete Per Port Configuration and apply the existing policy-group config |

**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)# policy-group <WORD> [force]
```

# policy-map type control-plane-if

**policy-map type control-plane-if** <WORD>

**Description:** Create interface ControlPlane policy to police/reclassify the traffic

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the policy-map to add (Max Size 64) |
|-------------|---|

**Command Mode:** configure : Configuration Mode

**Command Path:**

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

# policy-map type control-plane-leaf

**policy-map type control-plane-leaf <WORD>**

**Description:** Create leaf aggregate ControlPlane policy to police/reclassify the traffic

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the policy-map to add (Max Size 64) |
|-------------|---|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# policy-map type control-plane-leaf <WORD>
```

# policy-map type control-plane-spine

**policy-map type control-plane-spine <WORD>**

**Description:** Create spine aggregate ControlPlane policy to police/reclassify the traffic

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the policy-map to add (Max Size 64) |
|-------------|---|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# policy-map type control-plane-spine <WORD>
```

# policy-map type data-plane

## policy-map type data-plane <WORD>

**Description:** Create a policymap of DataPlane type to police/reclassify the traffic

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the policy-map to add (Max Size 64) |
|-------------|---|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# policy-map type data-plane <WORD>
```

## policy-map type data-plane <WORD>

**Description:** data-plane policy type

**Syntax:**

|             |   |
|-------------|---|
| type        | Policy Type                                 |
| <i>WORD</i> | Name of the policy-map to add (Max Size 64) |

**Command Mode:** tenant : Tenant configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# policy-map type data-plane <WORD>
```

# policy-map type port-authentication

**policy-map type port-authentication <WORD>**

**Description:** Create node level port authentication policy

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Port authentication Policy Group Name (Max Size 64) |
|-------------|---|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# policy-map type port-authentication <WORD>
```



# policy-map type qos

**policy-map type qos** <WORD>

**Description:** QOS policy type

**Syntax:**

|      |   |
|------|---|
| type | Policy Type                                 |
| WORD | Name of the policy-map to add (Max Size 64) |

**Command Mode:** tenant : Tenant configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# policy-map type qos <WORD>
```

# policy-protocol

**policy-protocol** <WORD>

**Description:** Create policy protocol

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the policy-map to add (Max Size 64) |
|-------------|---|

**Command Mode:** policy-map type control-plane-if : Create interface ControlPlane policy to police/reclassify the traffic

**Command Path:**

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

# port-authentication

**port-authentication** <WORD>

**Description:** Add port authentication policy

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Port authentication Policy Group Name (Max Size 64) |
|-------------|---|

**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)# port-authentication <WORD>
```

# port-authentication fail-auth-epg

**port-authentication fail-auth-epg tenant <arg> application <arg> epg <arg>**

**Description:** Set default EPg name if authentication fails

**Syntax:**

|             |                                    |
|-------------|------------------------------------|
| tenant      | Tenant hosting the EPg             |
| <i>arg</i>  |                                    |
| application | Application Name                   |
| <i>arg</i>  |                                    |
| epg         | Deploy EPg if authentication fails |
| <i>arg</i>  |                                    |

**Command Mode:** leaf : Configure Leaf Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# port-authentication fail-auth-epg tenant <> application <> epg <>
```

**port-authentication fail-auth-epg tenant <arg> application <arg> epg <arg>**

**Description:** Set default EPg name if authentication fails

**Syntax:**

|             |                                    |
|-------------|------------------------------------|
| tenant      | Tenant hosting the EPg             |
| <i>arg</i>  |                                    |
| application | Application Name                   |
| <i>arg</i>  |                                    |
| epg         | Deploy EPg if authentication fails |
| <i>arg</i>  |                                    |

**Command Mode:** spine : Configure Spine Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# port-authentication fail-auth-epg tenant <> application <> epg <>
```

## port-authentication fail-auth-vlan

### port-authentication fail-auth-vlan <vlan-id>

**Description:** Set default vlan encap if authentication fails

**Syntax:**

|           |                   |
|-----------|-------------------|
| <vlan-id> | Configure Vlan ID |
|-----------|-------------------|

**Command Mode:** leaf : Configure Leaf Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# port-authentication fail-auth-vlan <vlan-id>
```

### port-authentication fail-auth-vlan <vlan-id>

**Description:** Set default vlan encap if authentication fails

**Syntax:**

|           |                   |
|-----------|-------------------|
| <vlan-id> | Configure Vlan ID |
|-----------|-------------------|

**Command Mode:** spine : Configure Spine Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# port-authentication fail-auth-vlan <vlan-id>
```

# port-authentication radius-provider-group

**port-authentication radius-provider-group <arg>**

**Description:** Set radius provider group

**Syntax:**

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

**Command Mode:** leaf : Configure Leaf Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# port-authentication radius-provider-group <>
```

**port-authentication radius-provider-group <arg>**

**Description:** Set radius provider group

**Syntax:**

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

**Command Mode:** spine : Configure Spine Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# port-authentication radius-provider-group <>
```

# port-direction

## port-direction uplink|downlink

**Description:** Configure an interface as up/downlink

**Syntax:**

|          |                  |
|----------|------------------|
| uplink   | port is uplink   |
| downlink | port is downlink |

**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)# port-direction uplink|downlink
```

## port-direction uplink|downlink

**Description:** Configure an interface as up/downlink

**Syntax:**

|          |                  |
|----------|------------------|
| uplink   | port is uplink   |
| downlink | port is downlink |

**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)# port-direction uplink|downlink
```

# port

## port <NUMBER>

**Description:** LDAP server port for authentication

**Syntax:**

|           |   |
|-----------|---|
| <1-65535> | Port number. Number range from=1 to=65535 |
|-----------|---|

**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)# port <NUMBER>
```

## port <NUMBER>

**Description:** RADIUS server port for authentication

**Syntax:**

|           |   |
|-----------|---|
| <1-65535> | RADIUS server port for authentication. Number range from=1 to=65535 |
|-----------|---|

**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)# port <NUMBER>
```

## port <NUMBER>

**Description:** RSA server port for authentication

**Syntax:**

|           |  |
|-----------|--|
| <1-65535> | RSA server port for authentication. Number range from=1 to=65535 |
|-----------|--|

**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)# port <NUMBER>
```



**port <NUMBER>****Description:** TACACS server port for authentication**Syntax:**

|           |   |
|-----------|---|
| <1-65535> | RADIUS server port for authentication. Number range from=1 to=65535 |
|-----------|---|

**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)# port <NUMBER>
```

**port <NUMBER>****Description:** Set the port used for SSH communication service.**Syntax:**

|           |  |
|-----------|--|
| <0-65535> | Set the port used for SSH communication service.. Number range from=0 to=65535 |
|-----------|--|

**Command Mode:** ssh-service : SSH communication policy group**Command Path:**

```
# configure [['terminal', 't']]
(config)# comm-policy <WORD>
(config-comm-policy)# ssh-service
(config-ssh-service)# port <NUMBER>
```

**port <NUMBER>****Description:** Set the port used for TELNET communication service.**Syntax:**

|           |   |
|-----------|---|
| <0-65535> | Set the port used for TELNET communication service.. Number range from=0 to=65535 |
|-----------|---|

**Command Mode:** telnet : TELNET communication policy group**Command Path:**

```
# configure [['terminal', 't']]
(config)# comm-policy <WORD>
(config-comm-policy)# telnet
(config-telnet)# port <NUMBER>
```

**port <NUMBER>****Description:** Set the port used for HTTP communication service.

**Syntax:**

|                              |   |
|------------------------------|---|
| <code>&lt;1-65535&gt;</code> | Set the port used for HTTP communication service.. Number range from=1 to=65535 |
|------------------------------|---|

**Command Mode:** http : HTTP communication policy group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# comm-policy <WORD>
(config-comm-policy)# http
(config-http)# port <NUMBER>
```

**port <NUMBER>**

**Description:** Set the port used for HTTPS communication service

**Syntax:**

|                              |   |
|------------------------------|---|
| <code>&lt;1-65535&gt;</code> | Set the port used for HTTPS communication service. Number range from=1 to=65535 |
|------------------------------|---|

**Command Mode:** https : HTTPS communication policy group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# comm-policy <WORD>
(config-comm-policy)# https
(config-https)# port <NUMBER>
```

**port <arg>**

**Description:** Port Number for TWAMP Server

**Syntax:**

|                  |  |
|------------------|--|
| <code>arg</code> | Configure Port Number for TWAMP Server. Number range from=1 to=65535 |
|------------------|--|

**Command Mode:** template twamp server-policy : Configure twamp server policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template twamp server-policy <WORD>
(config-twamp-server-policy)# port <>
```

**port <from> <to> type fc**

**Description:** Configure Port Conversion

**Syntax:**

|             |  |
|-------------|--|
| <i>from</i> | From port number. Number range from=1 to=128 |
| <i>to</i>   | To port number. Number range from=1 to=128   |
| <i>type</i> | Select port type                             |
| fc          | Fiber Channel                                |

**Command Mode:** slot : Specify Slot Number

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# slot <card>
(config-leaf-slot)# port <from> <to> type fc
```

**port <from> <to> type fc**

**Description:** Configure Port Conversion

**Syntax:**

|             |  |
|-------------|--|
| <i>from</i> | From port number. Number range from=1 to=128 |
| <i>to</i>   | To port number. Number range from=1 to=128   |
| <i>type</i> | Select port type                             |
| fc          | Fiber Channel                                |

**Command Mode:** slot : Specify Slot Number

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# slot <card>
(config-leaf-slot)# port <from> <to> type fc
```

# porttrack delay

**porttrack delay <1-300>**

**Description:** Set Port Tracking Delay

**Syntax:**

|         |             |
|---------|-------------|
| <1-300> | Delay value |
|---------|-------------|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# porttrack delay <1-300>
```

# porttrack minlinks

**porttrack minlinks <0-18>**

**Description:** Set Port Tracking minimum links left up before trigger

**Syntax:**

|        |                |
|--------|----------------|
| <0-18> | Minlinks Value |
|--------|----------------|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# porttrack minlinks <0-18>
```

# porttrack state

## porttrack state on

**Description:** Set Port Tracking State

**Syntax:**

|    |                               |
|----|-------------------------------|
| on | To enable port tracking state |
|----|-------------------------------|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# porttrack state on
```

# power-over-ethernet

**power-over-ethernet** <WORD>

**Description:** Add power over ethernet policy

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Power Over Ethernet Node Policy Name (Max Size 64) |
|-------------|--|

**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)# power-over-ethernet <WORD>
```

# power-over-ethernet consumption

**power-over-ethernet consumption <4000-30000>**

**Description:** Set node level power wattage for interface consumption

**Syntax:**

|              |   |
|--------------|---|
| <4000-30000> | Interface power consumption in milliwatts |
|--------------|---|

**Command Mode:** leaf : Configure Leaf Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# power-over-ethernet consumption <4000-30000>
```

**power-over-ethernet consumption <4000-30000>**

**Description:** Set node level power wattage for interface consumption

**Syntax:**

|              |   |
|--------------|---|
| <4000-30000> | Interface power consumption in milliwatts |
|--------------|---|

**Command Mode:** spine : Configure Spine Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# power-over-ethernet consumption <4000-30000>
```



# power-over-ethernet pwrctrl

**power-over-ethernet pwrctrl <power control>**

**Description:** Enable or Disable PoE for node

**Syntax:**

|                      |               |
|----------------------|---------------|
| <i>power control</i> | Power Control |
|----------------------|---------------|

**Command Mode:** leaf : Configure Leaf Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# power-over-ethernet pwrctrl <power control>
```

**power-over-ethernet pwrctrl <power control>**

**Description:** Enable or Disable PoE for node

**Syntax:**

|                      |               |
|----------------------|---------------|
| <i>power control</i> | Power Control |
|----------------------|---------------|

**Command Mode:** spine : Configure Spine Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# power-over-ethernet pwrctrl <power control>
```

# power

## **power redundancy-policy <WORD>**

**Description:** Create a power supply redundancy policy

**Syntax:**

|                   |   |
|-------------------|---|
| redundancy-policy | Create a power supply redundancy policy           |
| <i>WORD</i>       | Power supply redundancy policy name (Max Size 64) |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# power redundancy-policy <WORD>
```

# preempt

## preempt

**Description:** Overthrow lower priority Active routers

**Command Mode:** template hsrp group-policy : Configure HSRP Group policy templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template hsrp group-policy <WORD> tenant <WORD>
(config-template-hsrp-group-pol)# preempt
```

## preempt

**Description:** Overthrow lower priority Active routers

**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)# preempt
```

## preempt

**Description:** Overthrow lower priority Active routers

**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)# preempt
```

## preempt

**Description:** Overthrow lower priority Active routers

**Command Mode:** template hsrp group-policy : Configure HSRP Group policy templates

**Command Path:**

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

```
(config-template-hsrp-group-pol)# preempt
```

### preempt

**Description:** Overthrow lower priority Active routers

**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)# preempt
```

### preempt

**Description:** Overthrow lower priority Active routers

**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)# preempt
```

# preempt delay

## preempt delay minimum|reload|sync <NUMBER>

**Description:** Wait before preempting

**Syntax:**

|          |   |
|----------|---|
| minimum  | Delay at least this long                      |
| reload   | Delay after reload                            |
| sync     | Wait for IP redundancy clients                |
| <0-3600> | Delay in seconds. Number range from=0 to=3600 |

**Command Mode:** template hsrp group-policy : Configure HSRP Group policy templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template hsrp group-policy <WORD> tenant <WORD>
(config-template-hsrp-group-pol)# preempt delay minimum|reload|sync <NUMBER>
```

## preempt delay minimum|reload|sync <NUMBER>

**Description:** Wait before preempting

**Syntax:**

|          |   |
|----------|---|
| minimum  | Delay at least this long                      |
| reload   | Delay after reload                            |
| sync     | Wait for IP redundancy clients                |
| <0-3600> | Delay in seconds. Number range from=0 to=3600 |

**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)# preempt delay minimum|reload|sync <NUMBER>
```

## preempt delay minimum|reload|sync <NUMBER>

**Description:** Wait before preempting

**Syntax:**

|          |   |
|----------|---|
| minimum  | Delay at least this long                      |
| reload   | Delay after reload                            |
| sync     | Wait for IP redundancy clients                |
| <0-3600> | Delay in seconds. Number range from=0 to=3600 |

**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)# preempt delay minimum|reload|sync <NUMBER>
```

**preempt delay minimum|reload|sync <NUMBER>**

**Description:** Wait before preempting

**Syntax:**

|          |   |
|----------|---|
| minimum  | Delay at least this long                      |
| reload   | Delay after reload                            |
| sync     | Wait for IP redundancy clients                |
| <0-3600> | Delay in seconds. Number range from=0 to=3600 |

**Command Mode:** template hsrp group-policy : Configure HSRP Group policy templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# template hsrp group-policy <WORD> tenant <WORD>
(config-template-hsrp-group-pol)# preempt delay minimum|reload|sync <NUMBER>
```

**preempt delay minimum|reload|sync <NUMBER>**

**Description:** Wait before preempting

**Syntax:**

|          |   |
|----------|---|
| minimum  | Delay at least this long                      |
| reload   | Delay after reload                            |
| sync     | Wait for IP redundancy clients                |
| <0-3600> | Delay in seconds. Number range from=0 to=3600 |

**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)# preempt delay minimum|reload|sync <NUMBER>
```

**preempt delay minimum|reload|sync <NUMBER>**

**Description:** Wait before preempting

**Syntax:**

|          |   |
|----------|---|
| minimum  | Delay at least this long                      |
| reload   | Delay after reload                            |
| sync     | Wait for IP redundancy clients                |
| <0-3600> | Delay in seconds. Number range from=0 to=3600 |

**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)# preempt delay minimum|reload|sync <NUMBER>
```

# prefix-suppression

## prefix-suppression

**Description:** Suppress prefixes

**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)# prefix-suppression
```

## prefix-suppression

**Description:** Suppress prefixes

**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)# prefix-suppression
```



# preview

## preview

**Description:** Rollback preview mode

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# snapshot rollback <WORD>
(config-rollback)# preview
```

# priority-flow-control

## priority-flow-control mode <arg>

**Description:** Configure Pfc Policy

**Syntax:**

|            |                 |
|------------|-----------------|
| mode       | Pfc policy mode |
| <i>arg</i> |                 |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template policy-group <WORD>
(config-pol-grp-if)# priority-flow-control mode <>
```

## priority-flow-control mode <arg>

**Description:** Configure Pfc Policy

**Syntax:**

|            |                 |
|------------|-----------------|
| mode       | Pfc policy mode |
| <i>arg</i> |                 |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template port-channel <WORD>
(config-po-ch-if)# priority-flow-control mode <>
```

## priority-flow-control mode <arg>

**Description:** Configure Interface pfc policy

**Syntax:**

|            |                 |
|------------|-----------------|
| mode       | Pfc policy mode |
| <i>arg</i> |                 |

**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)# priority-flow-control mode <>
```

### priority-flow-control mode <arg>

**Description:** Configure Interface pfc policy

**Syntax:**

|            |                 |
|------------|-----------------|
| mode       | Pfc policy mode |
| <i>arg</i> |                 |

**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)# priority-flow-control mode <>
```

### priority-flow-control mode <arg>

**Description:** Configure Interface pfc policy

**Syntax:**

|            |                 |
|------------|-----------------|
| mode       | Pfc policy mode |
| <i>arg</i> |                 |

**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)# priority-flow-control mode <>
```

### priority-flow-control mode <arg>

**Description:** Configure Interface pfc policy

**Syntax:**

|            |                 |
|------------|-----------------|
| mode       | Pfc policy mode |
| <i>arg</i> |                 |

**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)# priority-flow-control mode <>
```

### priority-flow-control mode <arg>

**Description:** Configure Interface pfc policy

#### Syntax:

|            |                 |
|------------|-----------------|
| mode       | Pfc policy mode |
| <i>arg</i> |                 |

**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)# priority-flow-control mode <>
```

# priority

## priority <high|low>

**Description:** Set port priority

**Syntax:**

|            |                           |
|------------|---------------------------|
| <high low> | Port priority high or low |
|------------|---------------------------|

**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)# priority <high|low>
```

## priority <NUMBER>

**Description:** Router priority

**Syntax:**

|         |   |
|---------|---|
| <0-255> | OSPF priority. Number range from=0 to=255 |
|---------|---|

**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)# priority <NUMBER>
```

## priority <NUMBER>

**Description:** Priority level

**Syntax:**

|         |  |
|---------|--|
| <0-255> | Priority value. Number range from=0 to=255 |
|---------|--|

**Command Mode:** template hsrp group-policy : Configure HSRP Group policy templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template hsrp group-policy <WORD> tenant <WORD>
(config-template-hsrp-group-pol)# priority <NUMBER>
```

**priority <NUMBER>****Description:** Priority level**Syntax:**

|         |  |
|---------|--|
| <0-255> | Priority value. Number range from=0 to=255 |
|---------|--|

**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)# priority <NUMBER>
```

**priority <NUMBER>****Description:** Priority level**Syntax:**

|         |  |
|---------|--|
| <0-255> | Priority value. Number range from=0 to=255 |
|---------|--|

**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)# priority <NUMBER>
```

**priority <NUMBER>****Description:** Router priority**Syntax:**

|         |   |
|---------|---|
| <0-255> | OSPF priority. Number range from=0 to=255 |
|---------|---|

**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)# priority <NUMBER>
```

**priority <NUMBER>****Description:** Priority level

**Syntax:**

|         |  |
|---------|--|
| <0-255> | Priority value. Number range from=0 to=255 |
|---------|--|

**Command Mode:** template hsrp group-policy : Configure HSRP Group policy templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# template hsrp group-policy <WORD> tenant <WORD>
(config-template-hsrp-group-pol)# priority <NUMBER>
```

**priority <NUMBER>**

**Description:** Priority level

**Syntax:**

|         |  |
|---------|--|
| <0-255> | Priority value. Number range from=0 to=255 |
|---------|--|

**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)# priority <NUMBER>
```

**priority <NUMBER>**

**Description:** Priority level

**Syntax:**

|         |  |
|---------|--|
| <0-255> | Priority value. Number range from=0 to=255 |
|---------|--|

**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)# priority <NUMBER>
```

# priv-type

## priv-type <privType>

**Description:** Set the AAA domain role to set privilege bitmask of a user domain

**Syntax:**

|            |            |
|------------|------------|
| <privType> | <privType> |
|------------|------------|

**Command Mode:** role : Create the AAA domain role to set privilege bitmask of a user domain

**Command Path:**

```
# configure [['terminal', 't']]
(config)# username <WORD>
(config-username)# domain <WORD>
(config-domain)# role <WORD>
(config-role)# priv-type <privType>
```

## priv-type <privType>

**Description:** Set the AAA domain role to set privilege bitmask of a group map rule

**Syntax:**

|            |            |
|------------|------------|
| <privType> | <privType> |
|------------|------------|

**Command Mode:** role : Create the AAA domain role to set privilege bitmask of a user domain

**Command Path:**

```
# configure [['terminal', 't']]
(config)# ldap-group-map-rule <WORD>
(config-ldap-group-map-rule)# domain <WORD>
(config-domain)# role <WORD>
(config-role)# priv-type <privType>
```



# priv

**priv <privileges>**

**Description:** Set privileges (comma separated values)

**Syntax:**

|                           |  |
|---------------------------|--|
| <i>&lt;privileges&gt;</i> | Privileges as comma separated values like val1,val2,..valN |
|---------------------------|--|

**Command Mode:** rbac role : Create AAA role, attributes and privileges for user authorization

**Command Path:**

```
# configure [['terminal', 't']]
(config)# rbac role <WORD>
(config-role)# priv <privileges>
```

# private-as-control

**private-as-control remove-exclusive|remove-exclusive-all|remove-exclusive-all-replace-as**

**Description:** Private AS Control

**Syntax:**

|                                 |                                  |
|---------------------------------|----------------------------------|
| remove-exclusive                | Remove private AS                |
| remove-exclusive-all            | Remove all private AS            |
| remove-exclusive-all-replace-as | Replace private AS with local AS |

**Command Mode:** neighbor : Configure a BGP neighbor

**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)# private-as-control
remove-exclusive|remove-exclusive-all|remove-exclusive-all-replace-as
```

**private-as-control remove-exclusive|remove-exclusive-all|remove-exclusive-all-replace-as**

**Description:** Private AS Control

**Syntax:**

|                                 |                                  |
|---------------------------------|----------------------------------|
| remove-exclusive                | Remove private AS                |
| remove-exclusive-all            | Remove all private AS            |
| remove-exclusive-all-replace-as | Replace private AS with local AS |

**Command Mode:** neighbor : Configure a BGP neighbor

**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)# private-as-control
remove-exclusive|remove-exclusive-all|remove-exclusive-all-replace-as
```

# probability

**probability** <probabilityValue>

**Description:** Set WRED Probability

**Syntax:**

|                         |  |
|-------------------------|--|
| <i>probabilityValue</i> | Set WRED Probability. 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)# probability <probabilityValue>
```

# profile-type

## profile-type <arg>

**Description:** Leaf aggregate policy for Control Plane Policing

### Syntax:

|            |                   |
|------------|-------------------|
| <i>arg</i> | Aggregate Profile |
|------------|-------------------|

**Command Mode:** policy-map type control-plane-leaf : Create leaf aggregate ControlPlane policy to police/reclassify the traffic

### Command Path:

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

## profile-type <arg>

**Description:** Spine aggregate policy for Control Plane Policing

### Syntax:

|            |                   |
|------------|-------------------|
| <i>arg</i> | Aggregate Profile |
|------------|-------------------|

**Command Mode:** policy-map type control-plane-spine : Create spine aggregate ControlPlane policy to police/reclassify the traffic

### Command Path:

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

## profile-type <profile-type>

**Description:** Set profile type for scale profile

### Syntax:

|                     |              |
|---------------------|--------------|
| <i>profile-type</i> | Profile Type |
|---------------------|--------------|

**Command Mode:** scale-profile : Configure Forwarding Scale Profile policy

### Command Path:

```
# configure [['terminal', 't']]
(config)# scale-profile <WORD>
(config-scale-profile)# profile-type <profile-type>
```

# protocol

## protocol <protocol>

**Description:** RADIUS server protocol for authentication

**Syntax:**

|            |            |
|------------|------------|
| <protocol> | <protocol> |
|------------|------------|

**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)# protocol <protocol>
```

## protocol <protocol>

**Description:** RSA server protocol for authentication

**Syntax:**

|            |            |
|------------|------------|
| <protocol> | <protocol> |
|------------|------------|

**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)# protocol <protocol>
```

## protocol <WORD>

**Description:** Set the TACACS+ authentication protocol

**Syntax:**

|      |                                 |
|------|---------------------------------|
| WORD | TACACS+ authentication protocol |
|------|---------------------------------|

**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)# protocol <WORD>
```

**protocol <WORD>**

**Description:** Set the TACACS+ accounting protocol

**Syntax:**

|             |                             |
|-------------|-----------------------------|
| <i>WORD</i> | TACACS+ accounting protocol |
|-------------|-----------------------------|

**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)# protocol <WORD>
```

# provider

**provider epg-label <WORD> [complement]**

**Description:** Add a provider EPG label

**Syntax:**

|             |   |
|-------------|---|
| epg-label   | EPG label   |
| <i>WORD</i> | EPG label name (Max Size 64)                              |
| complement  | (Optional) Set isComplement property of the label to True |

**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)# provider epg-label <WORD> [complement]
```

# proxy-arp

## proxy-arp enable

**Description:** Enable Proxy ARP

**Syntax:**

|        |                  |
|--------|------------------|
| enable | Enable Proxy ARP |
|--------|------------------|

**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)# proxy-arp enable
```



# psk-string

## psk-string WORD

**Description:** Configure pre shared key string

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | pre shared key in clear text of 32/64 hex characters |
|-------------|--|

**Command Mode:** key : Configure CKN as hex string of max 64 characters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template macsec access|fabric keychain <WORD>
(config-macsec-keychain)# key <WORD>
(config-macsec-keychain-key)# psk-string WORD
```

# pskindex

**pskindex** <WORD>

**Description:** Configure the Pre Shared Key Index

**Syntax:**

|             |                          |
|-------------|--------------------------|
| <i>WORD</i> | Psk Index (Max Size 256) |
|-------------|--------------------------|

**Command Mode:** template cloudsec : Configure cloudsec Policies

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template cloudsec <WORD>
(config-cloudsec)# pskindex <WORD>
```

# pskstring

**pskstring** <WORD>

**Description:** Add Psk String for Cloudsec Policy

**Syntax:**

|             |                          |
|-------------|--------------------------|
| <i>WORD</i> | PSK string (Max Size 64) |
|-------------|--------------------------|

**Command Mode:** pskindex : Configure the Pre Shared Key Index

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template cloudsec <WORD>
(config-cloudsec)# pskindex <WORD>
(config-pskindex)# pskstring <WORD>
```

# ptp

**ptp**

**Description:** Configure PTP protocol State

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]  
(config)# ptp
```

# public-address-pool

**public-address-pool** <pub\_pool> <connection-type>

**Description:** Configure Public IP Address Pool for Normalized mode

**Syntax:**

|                        |                           |
|------------------------|---------------------------|
| <i>pub_pool</i>        | pub_pool                  |
| <i>connection-type</i> | bridge-domain/l3-external |

**Command Mode:** l4l7 resource-pool : Configure L4-L7 Service Resource Pool

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# l4l7 resource-pool <WORD>
(config-resource-pool)# public-address-pool <pub_pool> <connection-type>
```

# pwd-lifetime

**pwd-lifetime** <NUMBER>

**Description:** Set The lifetime of the user password (0 = No password expiration)

**Syntax:**

|          |  |
|----------|--|
| <0-3650> | lifetime of locally-authenticated user password. Number range from=0 to=3650 |
|----------|--|

**Command Mode:** username : Create a locally-authenticated user account

**Command Path:**

```
# configure [['terminal', 't']]
(config)# username <WORD>
(config-username)# pwd-lifetime <NUMBER>
```

# pwrctrl

**pwrctrl** <pwrCtrl>

**Description:** Update power control value in PoE Node-policy

**Syntax:**

|                |               |
|----------------|---------------|
| <i>pwrCtrl</i> | Power Control |
|----------------|---------------|

**Command Mode:** template power-over-ethernet node-policy : Configure Power Over Ethernet Parameters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template power-over-ethernet node-policy <WORD>
(config-poe-node-pol)# pwrctrl <pwrCtrl>
```







## Q Commands

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- [qinq-static-endpoint](#), on page 1264
- [qos](#), on page 1268
- [qos parameters](#), on page 1269
- [qos preserve](#), on page 1270
- [query-profile](#), on page 1271
- [query](#), on page 1272
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- [queue limit](#), on page 1274
- [quota](#), on page 1275

## qinq-static-endpoint

**qinq-static-endpoint mac** *E.E.E*|*EE-EE-EE-EE-EE-EE*|*EE:EE:EE:EE:EE:EE*|*EEEE.EEEE.EEEE* **outer-vlan** <NUMBER>  
**inner-vlan** <NUMBER> [**ip** <A1.B1.C1.D1,...,An.Bn.Cn.Dn>] [**ipv6** <A1:B1::C1:D1,...,An:Bn::Cn:Dn>]

**Description:** Configure Silent Host behind an EPG with a Static Path Attachment

### Syntax:

|                                      |   |
|--------------------------------------|---|
| mac                                  | MAC address   |
| <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)  |
| outer-vlan                           | Outer Encapsulation Vlan                                      |
| <1-4094>                             | Encapsulation Vlan. Number range from=1 to=4094               |
| inner-vlan                           | Outer Encapsulation Vlan                                      |
| <1-4094>                             | Encapsulation Vlan. Number range from=1 to=4094               |
| <i>A1.B1.C1.D1,...,An.Bn.Cn.Dn</i>   | (Optional) List of IP addresses in format i.i.i.i             |
| <i>A1:B1::C1:D1,...,An:Bn::Cn:Dn</i> | (Optional) List of IPv6 address in format xxxx:xxxx, xxxx::xx |

**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)# qinq-static-endpoint mac
E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE outer-vlan <NUMBER> inner-vlan
<NUMBER> [ip <A1.B1.C1.D1,...,An.Bn.Cn.Dn>] [ipv6 <A1:B1::C1:D1,...,An:Bn::Cn:Dn>]
```

**qinq-static-endpoint mac** *E.E.E*|*EE-EE-EE-EE-EE-EE*|*EE:EE:EE:EE:EE:EE*|*EEEE.EEEE.EEEE* **outer-vlan** <NUMBER>  
**inner-vlan** <NUMBER> [**ip** <A1.B1.C1.D1,...,An.Bn.Cn.Dn>] [**ipv6** <A1:B1::C1:D1,...,An:Bn::Cn:Dn>]

**Description:** Configure silent Host behind an EPG with a Static Path Attachment

### Syntax:

|                          |                        |
|--------------------------|------------------------|
| mac                      | MAC address            |
| <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)                                       |
| outer-vlan                           | Outer Encapsulation Vlan                                     |
| <1-4094>                             | Encapsulation Vlan. Number range from=1 to=4094              |
| inner-vlan                           | Outer Encapsulation Vlan                                     |
| <1-4094>                             | Encapsulation Vlan. Number range from=1 to=4094              |
| <i>A1.B1.C1.D1,...,An.Bn.Cn.Dn</i>   | (Optional) List of IP addresses in format i.i.i.i            |
| <i>A1:B1::C1:D1,...,An:Bn::Cn:Dn</i> | (Optional) List of IPv6 address in format xxxx:xxxx, xxxx:xx |

**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)# qinq-static-endpoint mac
E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE outer-vlan <NUMBER> inner-vlan
<NUMBER> [ip <A1.B1.C1.D1,...,An.Bn.Cn.Dn>] [ipv6 <A1:B1::C1:D1,...,An:Bn::Cn:Dn>]
```

**qinq-static-endpoint mac** *E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE* outer-vlan <NUMBER>  
inner-vlan <NUMBER> [ip <*A1.B1.C1.D1,...,An.Bn.Cn.Dn*>] [ipv6 <*A1:B1::C1:D1,...,An:Bn::Cn:Dn*>]

**Description:** Configure Silent Host behind an EPG with a Static Path Attachment

**Syntax:**

|                                      |  |
|--------------------------------------|--|
| mac                                  | MAC address  |
| <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)                                       |
| outer-vlan                           | Outer Encapsulation Vlan                                     |
| <1-4094>                             | Encapsulation Vlan. Number range from=1 to=4094              |
| inner-vlan                           | Outer Encapsulation Vlan                                     |
| <1-4094>                             | Encapsulation Vlan. Number range from=1 to=4094              |
| <i>A1.B1.C1.D1,...,An.Bn.Cn.Dn</i>   | (Optional) List of IP addresses in format i.i.i.i            |
| <i>A1:B1::C1:D1,...,An:Bn::Cn:Dn</i> | (Optional) List of IPv6 address in format xxxx:xxxx, xxxx:xx |

**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)# qinq-static-endpoint mac
E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE outer-vlan <NUMBER> inner-vlan
<NUMBER> [ip <A1.B1.C1.D1,...,An.Bn.Cn.Dn>] [ipv6 <A1:B1::C1:D1,...,An:Bn::Cn:Dn>]
```

**qinq-static-endpoint mac E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE outer-vlan <NUMBER> inner-vlan <NUMBER> [ip <A1.B1.C1.D1,...,An.Bn.Cn.Dn>] [ipv6 <A1:B1::C1:D1,...,An:Bn::Cn:Dn>]**

**Description:** Configure silent Host behind an EPG with a Static Path Attachment

**Syntax:**

|                                      |   |
|--------------------------------------|---|
| mac                                  | MAC address   |
| <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)  |
| outer-vlan                           | Outer Encapsulation Vlan                                      |
| <i>&lt;1-4094&gt;</i>                | Encapsulation Vlan. Number range from=1 to=4094               |
| inner-vlan                           | Outer Encapsulation Vlan                                      |
| <i>&lt;1-4094&gt;</i>                | Encapsulation Vlan. Number range from=1 to=4094               |
| <i>A1.B1.C1.D1,...,An.Bn.Cn.Dn</i>   | (Optional) List of IP addresses in format i.i.i.i             |
| <i>A1:B1::C1:D1,...,An:Bn::Cn:Dn</i> | (Optional) List of IPv6 address in format xxxx:xxxx, xxxx::xx |

**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)# qinq-static-endpoint mac
E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE outer-vlan <NUMBER> inner-vlan
<NUMBER> [ip <A1.B1.C1.D1,...,An.Bn.Cn.Dn>] [ipv6 <A1:B1::C1:D1,...,An:Bn::Cn:Dn>]
```

**qinq-static-endpoint mac E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE outer-vlan <NUMBER> inner-vlan <NUMBER> [ip <A1.B1.C1.D1,...,An.Bn.Cn.Dn>] [ipv6 <A1:B1::C1:D1,...,An:Bn::Cn:Dn>]**

**Description:** Configure silent Host behind a EPG with a Static Path Attachment

**Syntax:**

|                                      |  |
|--------------------------------------|--|
| mac                                  | MAC address  |
| <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)                                       |
| outer-vlan                           | Outer Encapsulation Vlan                                     |
| <1-4094>                             | Encapsulation Vlan. Number range from=1 to=4094              |
| inner-vlan                           | Outer Encapsulation Vlan                                     |
| <1-4094>                             | Encapsulation Vlan. Number range from=1 to=4094              |
| <i>A1.B1.C1.D1,...,An.Bn.Cn.Dn</i>   | (Optional) List of IP addresses in format i.i.i.i            |
| <i>A1:B1::C1:D1,...,An:Bn::Cn:Dn</i> | (Optional) List of IPv6 address in format xxxx:xxxx, xxxx:xx |

**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)# qinq-static-endpoint mac
E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE outer-vlan <NUMBER> inner-vlan
<NUMBER> [ip <A1.B1.C1.D1,...,An.Bn.Cn.Dn>] [ipv6 <A1:B1::C1:D1,...,An:Bn::Cn:Dn>]
```

# qos

## qos dscp-map <WORD>

**Description:** Set DSCP Class translation values

**Syntax:**

|             |  |
|-------------|--|
| dscp-map    | DSCP map                                   |
| <i>WORD</i> | DSCP Translation Policy name (Max Size 64) |

**Command Mode:** tenant : Tenant configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# qos dscp-map <WORD>
```

# qos parameters

**qos parameters <WORD>**

**Description:** Configure the global QOS policies

**Syntax:**

|             |           |
|-------------|-----------|
| <i>WORD</i> | Qos Level |
|-------------|-----------|

**Command Mode:** configure : Configuration Mode

**Command Path:**

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

# qos preserve

## qos preserve cos

**Description:** Preserve incoming qos value in the frame

**Syntax:**

|     |                               |
|-----|-------------------------------|
| cos | IEEE 802.1P class of service. |
|-----|-------------------------------|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# qos preserve cos
```



# query-profile

## query-profile

**Description:** Configure Query profile Parameters

**Command Mode:** callhome : Callhome common policy configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# callhome common
(config-callhome)# query-profile
```

## query-profile

**Description:** Configure Query profile Parameters

**Command Mode:** smartcallhome : Smart Callhome common policy configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# smartcallhome common
(config-smartcallhome)# query-profile
```

# query

**query <WORD> type dn|class <dn/classname>**

**Description:** Configure Query profile Parameters

**Syntax:**

|                |                          |
|----------------|--------------------------|
| <i>WORD</i>    | Query name (Max Size 16) |
| type           | type                     |
| dn             | Dn                       |
| class          | Class                    |
| <dn/classname> | The class or DN name     |

**Command Mode:** query-profile : Configure Query profile Parameters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# callhome common
(config-callhome)# query-profile
(config-callhome-queryprof)# query <WORD> type dn|class <dn/classname>
```

**query <WORD> type dn|class <dn/classname>**

**Description:** Configure Query profile Parameters

**Syntax:**

|                |                          |
|----------------|--------------------------|
| <i>WORD</i>    | Query name (Max Size 16) |
| type           | type                     |
| dn             | Dn                       |
| class          | Class                    |
| <dn/classname> | The class or DN name     |

**Command Mode:** query-profile : Configure Query profile Parameters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# smartcallhome common
(config-smartcallhome)# query-profile
(config-callhome-queryprof)# query <WORD> type dn|class <dn/classname>
```

# queue control

## queue control dynamic

**Description:** Set the queuing control method

**Syntax:**

|         |                                       |
|---------|---------------------------------------|
| dynamic | Dynamic allocation of queue resources |
|---------|---------------------------------------|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# qos parameters <WORD>
(config-qos)# queue control dynamic
```

# queue limit

**queue limit <1500-9216>**

**Description:** Set the limit for the policing queue

**Syntax:**

|             |                  |
|-------------|------------------|
| <1500-9216> | Queue limit size |
|-------------|------------------|

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

**Command Path:**

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

# quota

**quota** <WORD> max <0-4294967295> [exceed-action <WORD>] [scope <WORD>] [tenant <WORD>]  
[bridge-domain <WORD>] [application <WORD>] [epg <WORD>]

**Description:** Quota Settings

**Syntax:**

|                |  |
|----------------|--|
| <i>WORD</i>    | Name of class to place under quota (Max Size None)               |
| max            | Maximum value above which exceed action is taken                 |
| <0-4294967295> | Maximum value above which exceed action is taken                 |
| <i>WORD</i>    | (Optional) Exceed Action to be taken when max is exceeded        |
| <i>WORD</i>    | (Optional) Subtree where the quota is calculated (Max Size None) |
| <i>WORD</i>    | (Optional) Tenant for the quota (Max Size 63)                    |
| <i>WORD</i>    | (Optional) Name of the bridge-domain (Max Size 64)               |
| <i>WORD</i>    | (Optional) Application name (Max Size 64)                        |
| <i>WORD</i>    | (Optional) Application EPG name (Max Size 64)                    |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# quota <WORD> max <0-4294967295> [exceed-action <WORD>] [scope <WORD>] [tenant
<WORD>] [bridge-domain <WORD>] [application <WORD>] [epg <WORD>]
```





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# radius-provider-group

**radius-provider-group** <arg>

**Description:** Set radius provider group

**Syntax:**

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

**Command Mode:** policy-map type port-authentication : Create node level port authentication policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# policy-map type port-authentication <WORD>
(config-pmap-port-authentication)# radius-provider-group <>
```

# radius-server host

**radius-server host** <A.B.C.D|A:B::C:D|WORD>

**Description:** RADIUS server's DNS name or its IP address

**Syntax:**

|                              |   |
|------------------------------|---|
| <i>A.B.C.D/A:B::C:D/WORD</i> | Provide a hostname or IPV4/IPV6 address |
|------------------------------|---|

**Command Mode:** configure : Configuration Mode

**Command Path:**

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

# radius-server retries

**radius-server retries** <NUMBER>

**Description:** Global RADIUS server retransmit count

**Syntax:**

|       |   |
|-------|---|
| <0-5> | Global RADIUS server retransmit count. Number range from=0 to=5 |
|-------|---|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# radius-server retries <NUMBER>
```

# radius-server timeout

**radius-server timeout** <NUMBER>

**Description:** Global RADIUS server timeout period in seconds

**Syntax:**

|        |   |
|--------|---|
| <1-60> | Global RADIUS server timeout period in seconds. Number range from=1 to=60 |
|--------|---|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# radius-server timeout <NUMBER>
```

# rate

**rate** <arg>

**Description:** Set rate and burst-rate (Byte Per Second)

**Syntax:**

|            |   |
|------------|---|
| <i>arg</i> | . Number range from=10 to=4398046510080 |
|------------|---|

**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)# rate <>
```

# rbac role

**rbac role** <WORD>

**Description:** Create AAA role, attributes and privileges for user authorization

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Provide AAA Security domain role name (Max Size 32) |
|-------------|---|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# rbac role <WORD>
```

# rbac rule

**rbac rule** <DN> <WORD>

**Description:** Create RBAC rule, security domain users can read subtree starting at specific object

**Syntax:**

|             |   |
|-------------|---|
| <i>DN</i>   | Provide RBAC Rule ObjectDN string             |
| <i>WORD</i> | Provide RBAC Rule domain name (Max Size None) |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# rbac rule <DN> <WORD>
```

# rbac security-domain

**rbac security-domain <WORD>**

**Description:** Create AAA security domain for processing authentication requests.

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Provide AAA Security domain name (Max Size 32) |
|-------------|--|

**Command Mode:** configure : Configuration Mode

**Command Path:**

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



# realm

## realm <realm>

**Description:** Specify server realm

**Syntax:**

|         |         |
|---------|---------|
| <realm> | <realm> |
|---------|---------|

**Command Mode:** aaa authentication login console : Configure console methods

**Command Path:**

```
# configure [['terminal', 't']]
(config)# aaa authentication login console
(config-console)# realm <realm>
```

## realm <realm>

**Description:** Specify server realm

**Syntax:**

|         |         |
|---------|---------|
| <realm> | <realm> |
|---------|---------|

**Command Mode:** aaa authentication login default : Configure default methods

**Command Path:**

```
# configure [['terminal', 't']]
(config)# aaa authentication login default
(config-default)# realm <realm>
```

## realm <realm>

**Description:** Specify server realm

**Syntax:**

|         |         |
|---------|---------|
| <realm> | <realm> |
|---------|---------|

**Command Mode:** aaa authentication login domain : Configure domain methods

**Command Path:**

```
# configure [['terminal', 't']]
(config)# aaa authentication login domain <WORD>
(config-domain)# realm <realm>
```

# record

## record <WORD>

**Description:** Assign Netflow Record to the Monitor

**Syntax:**

|             |                            |
|-------------|----------------------------|
| <i>WORD</i> | Monitor Name (Max Size 64) |
|-------------|----------------------------|

**Command Mode:** flow monitor : Configure Netflow Monitor

**Command Path:**

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

## record <WORD>

**Description:** Assign Netflow Record to the Monitor

**Syntax:**

|             |                            |
|-------------|----------------------------|
| <i>WORD</i> | Monitor Name (Max Size 64) |
|-------------|----------------------------|

**Command Mode:** flow monitor : Configure Netflow Monitor

**Command Path:**

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

# recurring

**recurring window <WORD>**

**Description:** Recurring window configuration mode

**Syntax:**

|             |                             |
|-------------|-----------------------------|
| window      | Configure a schedule window |
| <i>WORD</i> | Window name (Max size 31)   |

**Command Mode:** scheduler : Scheduler configuration mode

**Command Path:**

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

# redir-dest

**redir-dest** <A.B.C.D|A:B::C:D> <XX:XX:XX:XX:XX:XX>

**Description:** Set ip and mac for service redirect destination

**Syntax:**

|                          |                          |
|--------------------------|--------------------------|
| <i>A.B.C.D A:B::C:D</i>  | IP address of the device |
| <i>XX:XX:XX:XX:XX:XX</i> | virtual mac address      |

**Command Mode:** svcredirect-pol : Configure L4L7 service redirection policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# svcredirect-pol <WORD>
(svcredirect-pol)# redir-dest <A.B.C.D|A:B::C:D> <XX:XX:XX:XX:XX:XX>
```

# redirect

## redirect

**Description:** Enable the state of the HTTP redirect state

**Command Mode:** http : HTTP communication policy group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# comm-policy <WORD>
(config-comm-policy)# http
(config-http)# redirect
```

# redistrib-metric

## redistrib-metric <NUMBER>

**Description:** Set the configuration of ISIS metric for redistributed routes

**Syntax:**

|        |  |
|--------|--|
| <1-63> | The configuration of ISIS metric for redistributed routes. Number range from=1 to=63 |
|--------|--|

**Command Mode:** isis : Intermediate System to Intermediate System (IS-IS)

**Command Path:**

```
# configure [['terminal', 't']]
(config)# pod <NUMBER>
(config-pod)# isis fabric
(config-pod-isis)# redistrib-metric <NUMBER>
```

## redistrib-metric <NUMBER>

**Description:** Set the configuration of ISIS metric for redistributed routes

**Syntax:**

|        |  |
|--------|--|
| <1-63> | The configuration of ISIS metric for redistributed routes. Number range from=1 to=63 |
|--------|--|

**Command Mode:** template isis-fabric : InterSystem-InterSystem Protocol (IS-IS)

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template isis-fabric <WORD>
(config-template-isis-fabric)# redistrib-metric <NUMBER>
```

# redistribute

## redistribute ospf|eigrp route-map <WORD>

**Description:** Redistribute route map

**Syntax:**

|             |                              |
|-------------|------------------------------|
| ospf        | Redistribute OSPF            |
| eigrp       | Redistribute EIGRP           |
| route-map   | Route map to redistribute to |
| <i>WORD</i> | Route map name               |

**Command Mode:** vrf : Virtual Router Context

**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)# redistribute ospf|eigrp route-map <WORD>
```

## redistribute ospf|eigrp route-map <WORD>

**Description:** Redistribute route map

**Syntax:**

|             |                              |
|-------------|------------------------------|
| ospf        | Redistribute OSPF            |
| eigrp       | Redistribute EIGRP           |
| route-map   | Route map to redistribute to |
| <i>WORD</i> | Route map name               |

**Command Mode:** vrf : Virtual Router Context

**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)# redistribute ospf|eigrp route-map <WORD>
```

# redundancy-mode

**redundancy-mode combined|ps-redundant|redundant**

**Description:** Configure power supply redundancy mode

**Syntax:**

|              |   |
|--------------|---|
| combined     | Combined mode to use output of all available PS           |
| ps-redundant | PS redundant mode (N+1) to enable power output redundancy |
| redundant    | Redundant mode (N+N) for a single PS to power the system  |

**Command Mode:** power : Create a power supply redundancy policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# power redundancy-policy <WORD>
(config-power)# redundancy-mode combined|ps-redundant|redundant
```



# region

**region** <WORD>

**Description:** STP MST region configuration mode

**Syntax:**

|             |                 |
|-------------|-----------------|
| <i>WORD</i> | MST region name |
|-------------|-----------------|

**Command Mode:** spanning-tree : STP MST configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spanning-tree mst configuration
(config-stp)# region <WORD>
```

# reload controller

**reload controller** <NUMBER>

**Description:** Reload controller

**Syntax:**

|        |  |
|--------|--|
| <1-64> | Controller id. Number range from=1 to=64 |
|--------|--|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# reload controller <NUMBER>
```

# reload switch

**reload switch** <NUMBER>

**Description:** Reload switch

**Syntax:**

|            |  |
|------------|--|
| <101-4000> | Switch id. Number range from=101 to=4000 |
|------------|--|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# reload switch <NUMBER>
```

## remote-as

### remote-as <NUMBER>

**Description:** Specify Autonomous System Number of the neighbor

**Syntax:**

|                |  |
|----------------|--|
| <1-4294967295> | The Remote autonomous system number. Number range from=1 to=4294967295 |
|----------------|--|

**Command Mode:** neighbor : Configure a BGP neighbor

**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)# remote-as <NUMBER>
```

### remote-as <NUMBER>

**Description:** Specify Autonomous System Number of the neighbor

**Syntax:**

|                |  |
|----------------|--|
| <1-4294967295> | The Remote autonomous system number. Number range from=1 to=4294967295 |
|----------------|--|

**Command Mode:** neighbor : Configure a BGP neighbor

**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)# remote-as <NUMBER>
```

# remote-dest

**remote-dest** <A.B.C.D|A:B::C:D|WORD> port <port>

**Description:** TACACS Accounting remote destination's DNS name or its IP address

**Syntax:**

|                              |  |
|------------------------------|--|
| <i>A.B.C.D A:B::C:D WORD</i> | TACACS+ server's DNS name or its IP address                          |
| <i>port</i>                  | port number for the remote destination                               |
| <i>port</i>                  | Tacacs server port for accounting logs. Number range from=1 to=65535 |

**Command Mode:** tacacslog-group : configure tacacs group

**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>
```

# remote

## remote path <WORD>

**Description:** Remote path configuration mode

### Syntax:

|             |                                |
|-------------|--------------------------------|
| path        | Configure remote path          |
| <i>WORD</i> | Remote path configuration name |

**Command Mode:** configure : Configuration Mode

### Command Path:

```
# configure [['terminal', 't']]
(config)# remote path <WORD>
```

## remote path <WORD>

**Description:** Set the remote path configuration will get downloaded from

### Syntax:

|             |                    |
|-------------|--------------------|
| path        | Assign remote path |
| <i>WORD</i> | Remote path name   |

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

### Command Path:

```
# configure [['terminal', 't']]
(config)# snapshot download <WORD>
(config-download)# remote path <WORD>
```

## remote path <WORD>

**Description:** Set the remote path configuration will get exported to

### Syntax:

|             |                       |
|-------------|-----------------------|
| path        | Configure remote path |
| <i>WORD</i> | Remote path name      |

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

### Command Path:

```
# configure [['terminal', 't']]
(config)# snapshot export <WORD>
```

```
(config-export)# remote path <WORD>
```

### remote path <WORD>

**Description:** Set the remote path configuration will get imported from

#### Syntax:

|             |                    |
|-------------|--------------------|
| path        | Assign remote path |
| <i>WORD</i> | Remote path name   |

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

#### Command Path:

```
# configure [['terminal', 't']]
(config)# snapshot import <WORD>
(config-import)# remote path <WORD>
```

### remote path <WORD>

**Description:** Set the remote path configuration will get uploaded to

#### Syntax:

|             |                    |
|-------------|--------------------|
| path        | Assign remote path |
| <i>WORD</i> | Remote path name   |

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

#### Command Path:

```
# configure [['terminal', 't']]
(config)# snapshot upload <WORD>
(config-upload)# remote path <WORD>
```

# replace-controller replace

**replace-controller replace** <NUMBER> <standby-serial>

**Description:** Replace active controller with standby

**Syntax:**

|                  |  |
|------------------|--|
| <1-64>           | Controller ID. Number range from=1 to=64 |
| <standby-serial> | Backup serial number                     |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# replace-controller replace <NUMBER> <standby-serial>
```



# replace-controller reset

**replace-controller reset <NUMBER>**

**Description:** Reset failover status of controller

**Syntax:**

|        |  |
|--------|--|
| <1-64> | Controller ID. Number range from=1 to=64 |
|--------|--|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# replace-controller reset <NUMBER>
```

# request-status-count

**request-status-count** <NUMBER>

**Description:** Set the maximum count of HTTP requests to track.

**Syntax:**

|         |   |
|---------|---|
| <count> | Set the maximum count of HTTP requests to track.. Number range from=0 to=1024 |
|---------|---|

**Command Mode:** http : HTTP communication policy group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# comm-policy <WORD>
(config-comm-policy)# http
(config-http)# request-status-count <NUMBER>
```

**request-status-count** <NUMBER>

**Description:** Set the maximum count of HTTPS requests to track

**Syntax:**

|         |  |
|---------|--|
| <count> | Set the maximum count of HTTPS requests to track.. Number range from=0 to=1024 |
|---------|--|

**Command Mode:** https : HTTPS communication policy group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# comm-policy <WORD>
(config-comm-policy)# https
(config-https)# request-status-count <NUMBER>
```

# reset-to-factory

**reset-to-factory**

**Description:** Reset role to factory default privileges

**Command Mode:** rbac role : Create AAA role, attributes and privileges for user authorization

**Command Path:**

```
# configure [['terminal', 't']]
(config)# rbac role <WORD>
(config-role)# reset-to-factory
```

# response-incl

## response-incl <respincl>

**Description:** Configure response subtree which needs to be included

### Syntax:

|            |                                     |
|------------|-------------------------------------|
| <respincl> | The response subtree to be included |
|------------|-------------------------------------|

**Command Mode:** query : Configure Query profile Parameters

### Command Path:

```
# configure [['terminal', 't']]
(config)# callhome common
(config-callhome)# query-profile
(config-callhome-queryprof)# query <WORD> type dn|class <dn/classname>
(config-callhome-queryprof-query)# response-incl <respincl>
```

## response-incl <respincl>

**Description:** Configure response subtree which needs to be included

### Syntax:

|            |                                     |
|------------|-------------------------------------|
| <respincl> | The response subtree to be included |
|------------|-------------------------------------|

**Command Mode:** query : Configure Query profile Parameters

### Command Path:

```
# configure [['terminal', 't']]
(config)# smartcallhome common
(config-smartcallhome)# query-profile
(config-callhome-queryprof)# query <WORD> type dn|class <dn/classname>
(config-callhome-queryprof-query)# response-incl <respincl>
```

# response-subtree

## response-subtree full|children|no

**Description:** Configure response-subtree

**Syntax:**

|          |          |
|----------|----------|
| full     | Full     |
| children | Children |
| no       | No       |

**Command Mode:** query : Configure Query profile Parameters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# callhome common
(config-callhome)# query-profile
(config-callhome-queryprof)# query <WORD> type dn|class <dn/classname>
(config-callhome-queryprof-query)# response-subtree full|children|no
```

## response-subtree full|children|no

**Description:** Configure response-subtree

**Syntax:**

|          |          |
|----------|----------|
| full     | Full     |
| children | Children |
| no       | No       |

**Command Mode:** query : Configure Query profile Parameters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# smartcallhome common
(config-smartcallhome)# query-profile
(config-callhome-queryprof)# query <WORD> type dn|class <dn/classname>
(config-callhome-queryprof-query)# response-subtree full|children|no
```

# retransmit-interval

## retransmit-interval <NUMBER>

**Description:** Set the interval between LSA retransmissions

**Syntax:**

|           |   |
|-----------|---|
| <1-65535> | Interval in seconds. Number range from=1 to=65535 |
|-----------|---|

**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)# retransmit-interval <NUMBER>
```

## retransmit-interval <NUMBER>

**Description:** Set the interval between LSA retransmissions

**Syntax:**

|           |   |
|-----------|---|
| <1-65535> | Interval in seconds. Number range from=1 to=65535 |
|-----------|---|

**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)# retransmit-interval <NUMBER>
```

# retries

## retries <NUMBER>

**Description:** LDAP server retries for authentication

**Syntax:**

|       |  |
|-------|--|
| <0-5> | LDAP server retries for authentication. Number range from=0 to=5 |
|-------|--|

**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)# retries <NUMBER>
```

## retries <0-5>

**Description:** RADIUS server retries for authentication

**Syntax:**

|       |  |
|-------|--|
| <0-5> | RADIUS server retries for authentication |
|-------|--|

**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)# retries <0-5>
```

## retries <0-5>

**Description:** RSA server retries for authentication

**Syntax:**

|       |                                       |
|-------|---------------------------------------|
| <0-5> | RSA server retries for authentication |
|-------|---------------------------------------|

**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)# retries <0-5>
```

**retries <NUMBER>**

**Description:** TACACS server retries for authentication

**Syntax:**

|       |  |
|-------|--|
| <0-5> | TACACS server retries for authentication. Number range from=0 to=5 |
|-------|--|

**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)# retries <NUMBER>
```



## reverse-port

### reverse-port

**Description:** Decide if the ports should be reverted on filters of type both

**Command Mode:** subject : Configuration a subject on the contract

### Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# contract <WORD> [type <type>]
(config-tenant-contract)# subject <WORD>
(config-tenant-contract-subj)# reverse-port
```

# revision

**revision** <NUMBER>

**Description:** Set the MST region revision number

**Syntax:**

|           |  |
|-----------|--|
| <0-65535> | MST region revision number. Number range from=0 to=65535 |
|-----------|--|

**Command Mode:** region : STP MST region configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spanning-tree mst configuration
(config-stp)# region <WORD>
(config-stp-region)# revision <NUMBER>
```

# rfc-compliant

## rfc-compliant true|false

**Description:** Configure the rfc compliance

### Syntax:

|       |                        |
|-------|------------------------|
| true  | Enable rfc compliance  |
| false | Disable rfc compliance |

**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)# rfc-compliant true|false
```

## rfc-compliant true|false

**Description:** Configure the rfc compliance

### Syntax:

|       |                        |
|-------|------------------------|
| true  | Enable rfc compliance  |
| false | Disable rfc compliance |

**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)# rfc-compliant true|false
```

# rhev-domain

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

**Description:** Create a VMM Redhat Domain

**Syntax:**

|             |                             |
|-------------|-----------------------------|
| <i>WORD</i> | VMM Redhat Domain name      |
| <i>WORD</i> | (Optional) Custom Delimiter |

**Command Mode:** configure : Configuration Mode

**Command Path:**

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

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

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

**Syntax:**

|             |  |
|-------------|--|
| member      | Bind the EPG to a Redhat domain  |
| <i>WORD</i> | Redhat 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)# rhev-domain member <WORD> [encap <WORD>] [primary-encap <WORD>]
[deploy <WORD>] [push <WORD>] [delimiter <WORD>]
```

# rhev

**rhev <arg> datacenter <WORD>**

**Description:** Configure an RHEV controller in the Redhat domain

**Syntax:**

|             |                 |
|-------------|-----------------|
| <i>arg</i>  |                 |
| datacenter  | Datacenter Name |
| <i>WORD</i> | Datacenter Name |

**Command Mode:** rhev-domain : Create a VMM Redhat Domain

**Command Path:**

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

# role

## role <WORD>

**Description:** Create the AAA domain role to set privilege bitmask of a user domain

### Syntax:

|             |           |
|-------------|-----------|
| <i>WORD</i> | User role |
|-------------|-----------|

**Command Mode:** domain : Create the AAA domain to which the user belongs.

### Command Path:

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

## role <WORD>

**Description:** Create the AAA domain role to set privilege bitmask of a user domain

### Syntax:

|             |           |
|-------------|-----------|
| <i>WORD</i> | User role |
|-------------|-----------|

**Command Mode:** domain : Create the AAA domain to which the Group DN belongs.

### Command Path:

```
# configure [['terminal', 't']]
(config)# ldap-group-map-rule <WORD>
(config-ldap-group-map-rule)# domain <WORD>
(config-domain)# role <WORD>
```

# rotrigger snapshot export

**rotrigger snapshot export <WORD>**

**Description:** Read-only Trigger command for snapshot export

**Syntax:**

|             |                                    |
|-------------|------------------------------------|
| <i>WORD</i> | Snapshot export configuration name |
|-------------|------------------------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# rotrigger snapshot export <WORD>
```

# route-control

## route-control import|export

**Description:** Configure Route Control

### Syntax:

|        |                |
|--------|----------------|
| import | Import Control |
| export | Export Control |

**Command Mode:** l3out : Configuration for L3Out

### Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# l3out <WORD>
(config-tenant-l3out)# route-control import|export
```



# route-map

**route-map <WORD> deny|permit <Sequence to insert to/delete from existing route-map entry>**

**Description:** Configure route-map

**Syntax:**

|   |  |
|---|--|
| <i>WORD</i>   | Route-map name   |
| deny  | deny   |
| permit  | permit   |
| <i>Sequence to insert to/delete from existing route-map entry</i> | Sequence to insert to/delete from existing route-map entry. Number range from=0 to=65535 |

**Command Mode:** tenant : Tenant configuration mode

**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>
```

**route-map <WORD>**

**Description:** Create route-map or enter route-map command mode

**Syntax:**

|             |                              |
|-------------|------------------------------|
| <i>WORD</i> | Route-map name (Max Size 64) |
|-------------|------------------------------|

**Command Mode:** vrf : Configure VRF parameters

**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>
```

**route-map <WORD> in|out**

**Description:** Apply route-map to neighbor

**Syntax:**

|             |                                 |
|-------------|---------------------------------|
| <i>WORD</i> | Route Map Name (Max Size 63)    |
| in          | Apply policy to incoming routes |

|     |                                 |
|-----|---------------------------------|
| out | Apply policy to outgoing routes |
|-----|---------------------------------|

**Command Mode:** neighbor : Configure a BGP neighbor

**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)# route-map <WORD> in|out
```

**route-map <WORD>**

**Description:** Create route-map or enter route-map command mode

**Syntax:**

|             |                              |
|-------------|------------------------------|
| <i>WORD</i> | Route-map name (Max Size 64) |
|-------------|------------------------------|

**Command Mode:** vrf : Configure VRF parameters

**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>
```

**route-map <WORD> in|out**

**Description:** Apply route-map to neighbor

**Syntax:**

|             |                                 |
|-------------|---------------------------------|
| <i>WORD</i> | Route Map Name (Max Size 63)    |
| in          | Apply policy to incoming routes |
| out         | Apply policy to outgoing routes |

**Command Mode:** neighbor : Configure a BGP neighbor

**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)# route-map <WORD> in|out
```

**route-map interpod-import****Description:** Import subnet from IPN**Syntax:**

|                 |                        |
|-----------------|------------------------|
| interpod-import | Import subnet from IPN |
|-----------------|------------------------|

**Command Mode:** fabric-external : Intrasite/Intersite Connectivity Profile**Command Path:**

```
# configure [['terminal', 't']]
(config)# fabric-external <NUMBER>
(config-fabric-external)# route-map interpod-import
```

# route-profile

## route-profile <WORD>

**Description:** Configure route-profile

**Syntax:**

|             |                    |
|-------------|--------------------|
| <i>WORD</i> | Route profile name |
|-------------|--------------------|

**Command Mode:** vrf : Configuration for vrf

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# vrf context <WORD>
(config-tenant-vrf)# route-profile <WORD>
```

## route-profile <WORD>

**Description:** Configure route-profile for bridge-domain

**Syntax:**

|             |                    |
|-------------|--------------------|
| <i>WORD</i> | Route profile name |
|-------------|--------------------|

**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)# route-profile <WORD>
```

# route-reflector

**route-reflector spine <LIST> [description <TEXT>]**

**Description:** Configure BGP route-reflectors

**Syntax:**

|             |   |
|-------------|---|
| spine       | Configure Spines as route-reflectors                              |
| <i>LIST</i> | Route-reflector spine node name or ID list. Ex. spine1 or 103,105 |
| <i>TEXT</i> | (Optional) Description  |

**Command Mode:** bgp-fabric : Border Gateway Protocol (BGP)

**Command Path:**

```
# configure [['terminal', 't']]
(config)# bgp-fabric
(config-bgp-fabric)# route-reflector spine <LIST> [description <TEXT>]
```

**route-reflector spine <LIST> [description <TEXT>]**

**Description:** Configure BGP route-reflectors

**Syntax:**

|             |   |
|-------------|---|
| spine       | Configure Spines as route-reflectors                              |
| <i>LIST</i> | Route-reflector spine node name or ID list. Ex. spine1 or 103,105 |
| <i>TEXT</i> | (Optional) Description  |

**Command Mode:** bgp : Border Gateway Protocol (BGP)

**Command Path:**

```
# configure [['terminal', 't']]
(config)# pod <NUMBER>
(config-pod)# bgp fabric
(config-pod-bgp)# route-reflector spine <LIST> [description <TEXT>]
```

# route-target

**route-target <WORD> <WORD>**

**Description:** Route-Target

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Route-Target mode   |
| <i>WORD</i> | Route-Target Extended Community in format <AS(4bytes)>:<NN(2bytes)> (Max Size None) |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# vrf context tenant <WORD> vrf <WORD> [l3out <l3out>]
(config-leaf-vrf)# address-family ipv4|ipv6 unicast
(config-leaf-vrf-af)# route-target <WORD> <WORD>
```

**route-target <WORD> <WORD>**

**Description:** Route-Target

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Route-Target mode   |
| <i>WORD</i> | Route-Target Extended Community in format <AS(4bytes)>:<NN(2bytes)> (Max Size None) |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# vrf context tenant <WORD> vrf <WORD> [l3out <l3out>]
(config-leaf-vrf)# address-family ipv4|ipv6 unicast
(config-leaf-vrf-af)# route-target <WORD> <WORD>
```

**route-target extended <value>**

**Description:** Global EVPN Route Target

**Syntax:**

|              |                                    |
|--------------|------------------------------------|
| extended     | Route-Target as extended community |
| <i>value</i> | Community value in aa:nn format    |

**Command Mode:** fabric-external : Intrasite/Intersite Connectivity Profile

**Command Path:**

```
# configure [['terminal', 't']]
(config)# fabric-external <NUMBER>
(config-fabric-external)# route-target extended <value>
```

# router-advertisement-guard-admin-status

**router-advertisement-guard-admin-status enabled|disabled**

**Description:** Config router advertisement administrative status in first hop security bridge domain policy

**Syntax:**

|          |                                    |
|----------|------------------------------------|
| enabled  | Enable router advertisement guard  |
| disabled | Disable router advertisement guard |

**Command Mode:** security-policy : Configuration for security 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-admin-status enabled|disabled
```



# router-advertisement-guard

## router-advertisement-guard

**Description:** Configuration for router advertisement guard policy

**Command Mode:** security-policy : Configuration for security 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
```

# router-advertisement

## router-advertisement

**Description:** Config trust router advertisement in trust control policy

**Command Mode:** trust-control : Configuration for trust control policy

### Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# first-hop-security
(config-tenant-fhs)# trust-control <WORD>
(config-tenant-fhs-trustctrl)# router-advertisement
```

# router-id

## router-id <A.B.C.D|A:B::C:D>

**Description:** Set router-id for peer l4l7 device

**Syntax:**

|                         |                              |
|-------------------------|------------------------------|
| <i>A.B.C.D A:B::C:D</i> | IP address for the l4l7 peer |
|-------------------------|------------------------------|

**Command Mode:** rtr-cfg : Configure L4-L7 router configuration parameters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# rtr-cfg <WORD>
(rtr-cfg)# router-id <A.B.C.D|A:B::C:D>
```

## router-id <A.B.C.D>

**Description:** Configure Router ID

**Syntax:**

|                |                 |
|----------------|-----------------|
| <i>A.B.C.D</i> | Router ID Value |
|----------------|-----------------|

**Command Mode:** vrf : Configure VRF parameters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# vrf context tenant <WORD> vrf <WORD> [l3out <l3out>]
(config-leaf-vrf)# router-id <A.B.C.D>
```

## router-id <A.B.C.D>

**Description:** Configure Router ID

**Syntax:**

|                |                 |
|----------------|-----------------|
| <i>A.B.C.D</i> | Router ID Value |
|----------------|-----------------|

**Command Mode:** vrf : Configure VRF parameters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# vrf context tenant <WORD> vrf <WORD> [l3out <l3out>]
(config-leaf-vrf)# router-id <A.B.C.D>
```

# router bgp

## router bgp <fabric-ASN>

**Description:** Border Gateway Protocol (BGP)

**Syntax:**

|              |                          |
|--------------|--------------------------|
| <fabric-ASN> | Autonomous System Number |
|--------------|--------------------------|

**Command Mode:** leaf : Configure Leaf Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# router bgp <fabric-ASN>
```

## router bgp <fabric-ASN>

**Description:** Border Gateway Protocol (BGP)

**Syntax:**

|              |                          |
|--------------|--------------------------|
| <fabric-ASN> | Autonomous System Number |
|--------------|--------------------------|

**Command Mode:** spine : Configure Spine Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# router bgp <fabric-ASN>
```

# router eigrp

## router eigrp default

**Description:** Enhanced Interior Gateway Routing Protocol (EIGRP)

**Syntax:**

|         |                   |
|---------|-------------------|
| default | EIGRP process tag |
|---------|-------------------|

**Command Mode:** leaf : Configure Leaf Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# router eigrp default
```

## router eigrp default

**Description:** Enhanced Interior Gateway Routing Protocol (EIGRP)

**Syntax:**

|         |                   |
|---------|-------------------|
| default | EIGRP process tag |
|---------|-------------------|

**Command Mode:** spine : Configure Spine Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# router eigrp default
```

# router ospf

## router ospf default|multipod-internal

**Description:** Open Shortest Path First (OSPF and OSPF Version3)

**Syntax:**

|                   |  |
|-------------------|--|
| default           | Process tag for default ospf and ospfv3  |
| multipod-internal | Process tag for multipod-internal ospf (used for forwarding traffic from local leaf across pod to remote leaf in remote pod) |

**Command Mode:** leaf : Configure Leaf Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# router ospf default|multipod-internal
```

## router ospf default|multipod-internal

**Description:** Open Shortest Path First (OSPF and OSPF Version3)

**Syntax:**

|                   |  |
|-------------------|--|
| default           | Process tag for default ospf and ospfv3  |
| multipod-internal | Process tag for multipod-internal ospf (used for forwarding traffic from local leaf across pod to remote leaf in remote pod) |

**Command Mode:** spine : Configure Spine Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# router ospf default|multipod-internal
```

# rsa-server host

**rsa-server host** <A.B.C.D|A:B::C:D|WORD>

**Description:** RSA server's DNS name or its IP address

**Syntax:**

|                              |   |
|------------------------------|---|
| <i>A.B.C.D A:B::C:D WORD</i> | Provide a hostname or IPV4/IPV6 address |
|------------------------------|---|

**Command Mode:** configure : Configuration Mode

**Command Path:**

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

## rsa-server retries

**rsa-server retries** <NUMBER>

**Description:** Global RSA server retransmit count

**Syntax:**

|       |  |
|-------|--|
| <0-5> | Global RSA server retransmit count. Number range from=0 to=5 |
|-------|--|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# rsa-server retries <NUMBER>
```



## rsa-server timeout

**rsa-server timeout** <NUMBER>

**Description:** Global RSA server timeout period in seconds

**Syntax:**

|        |  |
|--------|--|
| <1-60> | Global RSA server timeout period in seconds. Number range from=1 to=60 |
|--------|--|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# rsa-server timeout <NUMBER>
```

# rtr-cfg

## rtr-cfg <WORD>

**Description:** Configure router configuration association for a L4-L7 service.

### Syntax:

|             |   |
|-------------|---|
| <i>WORD</i> | router configuration name (Max Size 64) |
|-------------|---|

**Command Mode:** service : Configure L4-L7 Service

### 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)# rtr-cfg <WORD>
```

## rtr-cfg <WORD>

**Description:** Configure L4-L7 router configuration parameters

### Syntax:

|             |   |
|-------------|---|
| <i>WORD</i> | router configuration name (Max Size 64) |
|-------------|---|

**Command Mode:** tenant : Tenant configuration mode

### Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# rtr-cfg <WORD>
```

# run-mode

**run-mode pause-never|pause-on-failure**

**Description:** Set run-mode

**Syntax:**

|                  |   |
|------------------|---|
| pause-never      | Do not pause on failure                               |
| pause-on-failure | Pause upgrade if upgrade of current set of nodes fail |

**Command Mode:** switch-group : Create switch firmware upgrade policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# firmware
(config-firmware)# switch-group <WORD>
(config-firmware-switch)# run-mode pause-never|pause-on-failure
```





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# sak-expiry-time

**sak-expiry-time x in <0-0> or <60-2592000>**

**Description:** Configure the Security Association Key Expiry Time (in sec)

**Syntax:**

|   |                                     |
|---|-------------------------------------|
| <i>x in &lt;0-0&gt; or &lt;60-2592000&gt;</i> | SAK Expiry Time, default 0=disabled |
|---|-------------------------------------|

**Command Mode:** template macsec access|fabric security-policy : Configure MAC security policy parameters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template macsec access|fabric security-policy <WORD>
(config-macsec-param)# sak-expiry-time x in <0-0> or <60-2592000>
```

# sakexpirytime

**sakexpirytime** <NUMBER>

**Description:** Configure the Security Association Key Expiry Time (in minutes)

**Syntax:**

|          |  |
|----------|--|
| <5-1440> | SAK Expiry Time. Number range from=5 to=1440 |
|----------|--|

**Command Mode:** template cloudsec : Configure cloudsec Policies

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template cloudsec <WORD>
(config-cloudsec)# sakexpirytime <NUMBER>
```

# sampling-rate

## sampling-rate <samplingRate>

**Description:** Configure Sampling Rate

**Syntax:**

|                     |  |
|---------------------|--|
| <i>samplingRate</i> | Configure Sampling Rate. Number range from=0 to=1000 |
|---------------------|--|

**Command Mode:** flow exporter : Configure NetFlow Exporter Policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# vmware-domain <WORD> [delimiter <WORD>] [access-mode <access-mode>]
(config-vmware)# configure-dvs
(config-vmware-dvs)# flow exporter <WORD>
(config-vmware-dvs-flow-exporter)# sampling-rate <samplingRate>
```

## sampling-rate <samplingRate>

**Description:** Configure Sampling Rate

**Syntax:**

|                     |  |
|---------------------|--|
| <i>samplingRate</i> | Configure Sampling Rate. Number range from=0 to=1000 |
|---------------------|--|

**Command Mode:** flow exporter : Configure NetFlow Exporter Policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# vmware-domain <WORD> [delimiter <WORD>] [access-mode <access-mode>]
(config-vmware)# configure-avs
(config-vmware-avs)# flow exporter <WORD>
(config-None)# sampling-rate <samplingRate>
```

## sampling-rate <samplingRate>

**Description:** Configure Sampling Rate

**Syntax:**

|                     |  |
|---------------------|--|
| <i>samplingRate</i> | Configure Sampling Rate. Number range from=0 to=1000 |
|---------------------|--|

**Command Mode:** flow exporter : Configure NetFlow Exporter Policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# vmware-domain <WORD> [delimiter <WORD>] [access-mode <access-mode>]
(config-vmware)# configure-ave
(config-vmware-ave)# flow exporter <WORD>
```

```
(config-None)# sampling-rate <samplingRate>
```

# scale-profile

## scale-profile <WORD>

**Description:** Configure Forwarding Scale Profile policy

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Provide a Forwarding Scale Profile policy name |
|-------------|--|

**Command Mode:** configure : Configuration Mode

**Command Path:**

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

## scale-profile <arg>

**Description:** Add Forwarding Scale Profile policy

**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)# scale-profile <>
```

# schedule

## schedule <WORD>

**Description:** Assign a scheduler

**Syntax:**

|             |                              |
|-------------|------------------------------|
| <i>WORD</i> | scheduler name (Max Size 64) |
|-------------|------------------------------|

**Command Mode:** switch-group : Create switch firmware upgrade policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# firmware
(config-firmware)# switch-group <WORD>
(config-firmware-switch)# schedule <WORD>
```

## schedule <WORD>

**Description:** Schedule snapshot export

**Syntax:**

|             |                |
|-------------|----------------|
| <i>WORD</i> | Scheduler name |
|-------------|----------------|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# snapshot export <WORD>
(config-export)# schedule <WORD>
```

# scheduler

## **scheduler pause**

**Description:** Pause maintenance policy scheduler

**Syntax:**

|       |                                    |
|-------|------------------------------------|
| pause | Pause maintenance policy scheduler |
|-------|------------------------------------|

**Command Mode:** switch-group : Create switch firmware upgrade policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# firmware
(config-firmware)# switch-group <WORD>
(config-firmware-switch)# scheduler pause
```

## **scheduler fabric|controller schedule <WORD>**

**Description:** Scheduler configuration mode

**Syntax:**

|             |                             |
|-------------|-----------------------------|
| fabric      | Fabric schedules            |
| controller  | Controller schedules        |
| schedule    | Configure a schedule        |
| <i>WORD</i> | Schedule name (Max size 64) |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# scheduler fabric|controller schedule <WORD>
```



# scheduling

**scheduling** <WORD>

**Description:** Set the scheduling algorithm

**Syntax:**

|             |                     |
|-------------|---------------------|
| <i>WORD</i> | Algorithm to choose |
|-------------|---------------------|

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

**Command Path:**

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

# scope

## scope <WORD>

**Description:** Specify the scope for the contract

### Syntax:

|      |                |
|------|----------------|
| WORD | Contract Scope |
|------|----------------|

**Command Mode:** contract : Configure binary contracts between Application EPGs

### Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# contract <WORD> [type <type>]
(config-tenant-contract)# scope <WORD>
```

## scope combinable

**Description:** Set route-profile scope

### Syntax:

|            |            |
|------------|------------|
| combinable | combinable |
|------------|------------|

**Command Mode:** template route-profile : Configure route-profile template under VRF/L3Out for bridge-domain export

### Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# vrf context tenant <WORD> vrf <WORD> [l3out <l3out>]
(config-leaf-vrf)# template route-profile <WORD> <WORD> <NUMBER>
(config-leaf-vrf-template-route-profile)# scope combinable
```

## scope global

**Description:** Set scope

### Syntax:

|        |   |
|--------|---|
| global | Route-map will be available for use on all nodes in this tenant and vrf |
|--------|---|

**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)# scope global
```

### scope combinable

**Description:** Set route-profile scope

**Syntax:**

|            |            |
|------------|------------|
| combinable | combinable |
|------------|------------|

**Command Mode:** template route-profile : Configure route-profile template under VRF/L3Out for bridge-domain export

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# vrf context tenant <WORD> vrf <WORD> [l3out <l3out>]
(config-leaf-vrf)# template route-profile <WORD> <WORD> <NUMBER>
(config-leaf-vrf-template-route-profile)# scope combinable
```

### scope global

**Description:** Set scope

**Syntax:**

|        |   |
|--------|---|
| global | Route-map will be available for use on all nodes in this tenant and vrf |
|--------|---|

**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)# scope global
```

# scvmm

**scvmm <arg> cloud <WORD> [name <name>]**

**Description:** Configure an SCVMM in the Microsoft domain

**Syntax:**

|             |                                  |
|-------------|----------------------------------|
| <i>arg</i>  |                                  |
| cloud       | Cloud name                       |
| <i>WORD</i> | Cloud Name (Max Size 512)        |
| <i>name</i> | (Optional) SCVMM Controller Name |

**Command Mode:** microsoft-domain : Create a VMM Microsoft Domain

**Command Path:**

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

# second-file

**second-file** <FILENAME>

**Description:** Second snapshot file name

**Syntax:**

|                 |                           |
|-----------------|---------------------------|
| <i>FILENAME</i> | Second snapshot file name |
|-----------------|---------------------------|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# snapshot rollback <WORD>
(config-rollback)# second-file <FILENAME>
```

# security-domain

## security-domain <WORD>

**Description:** Add security domain

**Syntax:**

|             |                      |
|-------------|----------------------|
| <i>WORD</i> | Security-domain name |
|-------------|----------------------|

**Command Mode:** vlan-domain : Configure vlan domain

**Command Path:**

```
# configure [['terminal', 't']]
(config)# vlan-domain <name> [dynamic] [type <domain-type>]
(config-vlan)# security-domain <WORD>
```

## security-domain <WORD>

**Description:** Add a security domain to this VMware domain

**Syntax:**

|             |                                    |
|-------------|------------------------------------|
| <i>WORD</i> | Security domain name (Max Size 64) |
|-------------|------------------------------------|

**Command Mode:** vmware-domain : Create a VMM VMWare Domain

**Command Path:**

```
# configure [['terminal', 't']]
(config)# vmware-domain <WORD> [delimiter <WORD>] [access-mode <access-mode>]
(config-vmware)# security-domain <WORD>
```

# security-mode

**security-mode <arg>**

**Description:** Configure whether all traffic or only encrypted traffic can flow through

**Syntax:**

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

**Command Mode:** template macsec access|fabric security-policy : Configure MAC security policy parameters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template macsec access|fabric security-policy <WORD>
(config-macsec-param)# security-mode <>
```

# security-policy

**security-policy <WORD>**

**Description:** Configuration for security policy

**Syntax:**

|             |                                    |
|-------------|------------------------------------|
| <i>WORD</i> | security policy name (Max Size 64) |
|-------------|------------------------------------|

**Command Mode:** first-hop-security : Configuration for first hop security

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# first-hop-security
(config-tenant-fhs)# security-policy <WORD>
```



# security

**security domain <WORD>**

**Description:** Add a security domain to the tenant

**Syntax:**

|             |                                      |
|-------------|--------------------------------------|
| domain      | Domain                               |
| <i>WORD</i> | Security domain name (Max Size None) |

**Command Mode:** tenant : Tenant configuration mode

**Command Path:**

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

# security allow-promiscuous

**security allow-promiscuous <WORD>**

**Description:** Enable/Disable promiscuous mode

**Syntax:**

|             |                                 |
|-------------|---------------------------------|
| <i>WORD</i> | Enable/Disable promiscuous mode |
|-------------|---------------------------------|

**Command Mode:** vmware-domain : Associate EPG to a VMWare Domain

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# application <WORD>
(config-tenant-app)# epg <WORD> [type <WORD>]
(config-tenant-app-epg)# vmware-domain member <WORD> [encap <WORD>] [primary-encap <WORD>]
[allow-micro-segmentation] [deploy <WORD>] [push <WORD>] [binding-type
staticBinding|dynamicBinding|ephemeral] [port-allocation fixed|elastic] [num-ports <WORD>]
[delimiter <WORD>]
(config-tenant-app-epg-domain)# security allow-promiscuous <WORD>
```

# security forged-transmits

**security forged-transmits <WORD>**

**Description:** Accept/Reject Forced Transmits

**Syntax:**

|             |                                |
|-------------|--------------------------------|
| <i>WORD</i> | Accept/Reject Forged Transmits |
|-------------|--------------------------------|

**Command Mode:** vmware-domain : Associate EPG to a VMWare Domain

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# application <WORD>
(config-tenant-app)# epg <WORD> [type <WORD>]
(config-tenant-app-epg)# vmware-domain member <WORD> [encap <WORD>] [primary-encap <WORD>]
[allow-micro-segmentation] [deploy <WORD>] [push <WORD>] [binding-type
staticBinding|dynamicBinding|ephemeral] [port-allocation fixed|elastic] [num-ports <WORD>]
[delimiter <WORD>]
(config-tenant-app-epg-domain)# security forged-transmits <WORD>
```

# security mac-changes

**security mac-changes <WORD>**

**Description:** Accept/Reject Mac Changes

**Syntax:**

|             |                           |
|-------------|---------------------------|
| <i>WORD</i> | Accept/Reject Mac Changes |
|-------------|---------------------------|

**Command Mode:** vmware-domain : Associate EPG to a VMWare Domain

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# application <WORD>
(config-tenant-app)# epg <WORD> [type <WORD>]
(config-tenant-app-epg)# vmware-domain member <WORD> [encap <WORD>] [primary-encap <WORD>]
[allow-micro-segmentation] [deploy <WORD>] [push <WORD>] [binding-type
staticBinding|dynamicBinding|ephemeral] [port-allocation fixed|elastic] [num-ports <WORD>]
[delimiter <WORD>]
(config-tenant-app-epg-domain)# security mac-changes <WORD>
```

# send-community

## send-community [extended]

**Description:** Send Community attribute to this neighbor

**Syntax:**

|          |  |
|----------|--|
| extended | (Optional) Send Extended Community attribute |
|----------|--|

**Command Mode:** neighbor : Configure a BGP neighbor

**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)# send-community [extended]
```

## send-community [extended]

**Description:** Send Community attribute to this neighbor

**Syntax:**

|          |  |
|----------|--|
| extended | (Optional) Send Extended Community attribute |
|----------|--|

**Command Mode:** neighbor : Configure a BGP neighbor

**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)# send-community [extended]
```

# server-group

**server-group** <WORD>

**Description:** server group configuration mode

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Logging server-group name (Max Size 64) |
|-------------|---|

**Command Mode:** tacacslog-monitoring : TacacsLog common policy configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tacacslog-monitoring common tacacslog-src <WORD>
(config-tacacslog-monitoring)# server-group <WORD>
```

# server-mode

## server-mode

**Description:** Server Mode for NTP Server

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

**Command Path:**

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

## server-mode

**Description:** Server Mode for NTP Server

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template ntp-fabric <WORD>
(config-template-ntp-fabric)# server-mode
```

# server-monitoring

## server-monitoring <server-monitoring>

**Description:** Enable or disable the server monitoring using test user

**Syntax:**

|                     |                     |
|---------------------|---------------------|
| <server-monitoring> | <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)# server-monitoring <server-monitoring>
```

## server-monitoring <server-monitoring>

**Description:** Enable or disable the server monitoring using test user

**Syntax:**

|                     |                     |
|---------------------|---------------------|
| <server-monitoring> | <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)# server-monitoring <server-monitoring>
```

## server-monitoring <server-monitoring>

**Description:** Enable or disable the server monitoring using test user

**Syntax:**

|                     |                     |
|---------------------|---------------------|
| <server-monitoring> | <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)# server-monitoring <server-monitoring>
```



**server-monitoring <server-monitoring>**

**Description:** Enable or disable the server monitoring using test user

**Syntax:**

|  |  |
|--|--|
| <code>&lt;server-monitoring&gt;</code> | <code>&lt;server-monitoring&gt;</code> |
|--|--|

**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)# server-monitoring <server-monitoring>
```

## server

**server** <A.B.C.D/A:B::C:D/WORD> priority <NUMBER>

**Description:** Add LDAP server to LDAP group

**Syntax:**

|                              |  |
|------------------------------|--|
| <i>A.B.C.D/A:B::C:D/WORD</i> | LDAP server name or IP address                             |
| priority                     | priority of server within group                            |
| <0-16>                       | Priority of server within group. Number range from=0 to=16 |

**Command Mode:** aaa group server ldap : LDAP server group name.

**Command Path:**

```
# configure [['terminal', 't']]
(config)# aaa group server ldap <WORD>
(config-ldap)# server <A.B.C.D/A:B::C:D/WORD> priority <NUMBER>
```

**server** <A.B.C.D/A:B::C:D/WORD> priority <NUMBER>

**Description:** Add RADIUS server to RADIUS group

**Syntax:**

|                              |  |
|------------------------------|--|
| <i>A.B.C.D/A:B::C:D/WORD</i> | RADIUS server name or IP address                           |
| priority                     | priority of server within group                            |
| <0-16>                       | Priority of server within group. Number range from=0 to=16 |

**Command Mode:** aaa group server radius : RADIUS server group name.

**Command Path:**

```
# configure [['terminal', 't']]
(config)# aaa group server radius <WORD>
(config-radius)# server <A.B.C.D/A:B::C:D/WORD> priority <NUMBER>
```

**server** <A.B.C.D/A:B::C:D/WORD> priority <NUMBER>

**Description:** Add RSA server to RSA group

**Syntax:**

|                              |  |
|------------------------------|--|
| <i>A.B.C.D/A:B::C:D/WORD</i> | RSA server name or IP address                              |
| priority                     | priority of server within group                            |
| <0-16>                       | Priority of server within group. Number range from=0 to=16 |

**Command Mode:** aaa group server rsa : RSA server group name.

**Command Path:**

```
# configure [['terminal', 't']]
(config)# aaa group server rsa <WORD>
(config-rsa)# server <A.B.C.D|A:B::C:D|WORD> priority <NUMBER>
```

**server <A.B.C.D|A:B::C:D|WORD> priority <NUMBER>**

**Description:** Add TACACS PLUS server to TACACS PLUS group

**Syntax:**

|                              |  |
|------------------------------|--|
| <i>A.B.C.D A:B::C:D WORD</i> | TACACS PLUS server name or IP address                      |
| priority                     | priority of server within group                            |
| <0-16>                       | Priority of server within group. Number range from=0 to=16 |

**Command Mode:** aaa group server tacacsplus : TACACS+ server group name.

**Command Path:**

```
# configure [['terminal', 't']]
(config)# aaa group server tacacsplus <WORD>
(config-tacacsplus)# server <A.B.C.D|A:B::C:D|WORD> priority <NUMBER>
```

**server <WORD> [prefer] [key <arg>] [use-epg <arg>] [use-vrf <arg>]**

**Description:** Configure ntp servers for the active ntp policy

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Server name/IP for the active ntp policy (Max Size 64)                       |
| prefer      | (Optional) Preferred server for the active ntp policy                        |
| <i>arg</i>  | (Optional) Reference key id for authentication. Number range from=1 to=65535 |
| <i>arg</i>  | (Optional) Configure management EPG  |
| <i>arg</i>  | (Optional) Configure management vrf  |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# pod <NUMBER>
(config-pod)# ntp
(config-ntp)# server <WORD> [prefer] [key <>] [use-epg <>] [use-vrf <>]
```

**server <WORD> [prefer] [key <arg>] [use-epg <arg>] [use-vrf <arg>]**

**Description:** Configure ntp servers for the active ntp policy

**Syntax:**

|               |  |
|---------------|--|
| <i>WORD</i>   | Server name/IP for the active ntp policy (Max Size 64)                       |
| <i>prefer</i> | (Optional) Preferred server for the active ntp policy                        |
| <i>arg</i>    | (Optional) Reference key id for authentication. Number range from=1 to=65535 |
| <i>arg</i>    | (Optional) Configure management EPG  |
| <i>arg</i>    | (Optional) Configure management vrf  |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template ntp-fabric <WORD>
(config-template-ntp-fabric)# server <WORD> [prefer] [key <>] [use-epg <>] [use-vrf <>]
```

**server <host/ipaddr> [facility <facility>] [severity <severity>] [mgmtepg <mgmtepg>] [port <port>] [format <format>]**

**Description:** Add a destination server

**Syntax:**

|                            |   |
|----------------------------|---|
| <i>&lt;host/ipaddr&gt;</i> | The hostname or ipaddress   |
| <i>facility</i>            | (Optional) The forwarding facility level for logs generated                     |
| <i>severity</i>            | (Optional) The severity level for logs generated                                |
| <i>mgmtepg</i>             | (Optional) MgmtEndpoint   |
| <i>port</i>                | (Optional) Service port of the remote destination. Number range from=1 to=65535 |
| <i>format</i>              | (Optional) The format for the syslog messages                                   |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# logging server-group <WORD>
(config-logging)# server <host/ipaddr> [facility <facility>] [severity <severity>] [mgmtepg <mgmtepg>] [port <port>] [format <format>]
```

# service-function-profile

**service-function-profile <funcprof>**

**Description:** Add Function Profile

**Syntax:**

|                 |          |
|-----------------|----------|
| <i>funcprof</i> | funcprof |
|-----------------|----------|

**Command Mode:** function-profile : Configure function profile container

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# 1417 resource-pool <WORD>
(config-resource-pool)# function-profile <WORD>
(config-function-profile)# service-function-profile <funcprof>
```

# service-policy

**service-policy type data-plane|control-plane-if <arg> <WORD>**

**Description:** QOS service policy

**Syntax:**

|                  |                                       |
|------------------|---------------------------------------|
| type             | Type of the Qos Policy                |
| data-plane       | QOS policy for Data Plane Policing    |
| control-plane-if | QOS policy for Control Plane Policing |
| <i>arg</i>       |                                       |
| <i>WORD</i>      | Qos Policy Name (Max Size 64)         |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template port-channel <WORD>
(config-po-ch-if)# service-policy type data-plane|control-plane-if <> <WORD>
```

**service-policy <WORD>**

**Description:** Specify the QOS service policy

**Syntax:**

|             |                                       |
|-------------|---------------------------------------|
| <i>WORD</i> | Service policy to apply (Max Size 64) |
|-------------|---------------------------------------|

**Command Mode:** external-l2 : L2 external EPG creation/configuration

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# external-l2 epg <WORD>
(config-tenant-l2ext-epg)# service-policy <WORD>
```

**service-policy type data-plane input|output <WORD>**

**Description:** QOS service policy

**Syntax:**

|            |                                    |
|------------|------------------------------------|
| type       | Type of the Qos Policy             |
| data-plane | QOS policy for Data Plane Policing |

|             |                               |
|-------------|-------------------------------|
| input       | Ingress Direction             |
| output      | Egress Direction              |
| <i>WORD</i> | Qos Policy Name (Max Size 64) |

**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)# service-policy type data-plane input|output <WORD>
```

## service-policy type control-plane-if

**service-policy type control-plane-if <arg> <WORD>**

**Description:** QOS policy for Control Plane Policing

**Syntax:**

|             |                               |
|-------------|-------------------------------|
| <i>arg</i>  |                               |
| <i>WORD</i> | Qos Policy Name (Max Size 64) |

**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)# service-policy type control-plane-if <> <WORD>
```

**service-policy type control-plane-if <arg> <WORD>**

**Description:** QOS policy for Control Plane Policing

**Syntax:**

|             |                               |
|-------------|-------------------------------|
| <i>arg</i>  |                               |
| <i>WORD</i> | Qos Policy Name (Max Size 64) |

**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)# service-policy type control-plane-if <> <WORD>
```

**service-policy type control-plane-if <arg> <WORD>**

**Description:** QOS policy for Control Plane Policing

**Syntax:**

|             |                               |
|-------------|-------------------------------|
| <i>arg</i>  |                               |
| <i>WORD</i> | Qos Policy Name (Max Size 64) |

**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)# service-policy type control-plane-if <> <WORD>
```

### service-policy type control-plane-if <arg> <WORD>

**Description:** QOS policy for Control Plane Policing

#### Syntax:

|             |                               |
|-------------|-------------------------------|
| <i>arg</i>  |                               |
| <i>WORD</i> | Qos Policy Name (Max Size 64) |

**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)# service-policy type control-plane-if <> <WORD>
```

# service-policy type data-plane

## service-policy type data-plane <WORD>

**Description:** Data plane Policy

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Data plane Service Policy (Max Size 64) |
|-------------|---|

**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)# service-policy type data-plane <WORD>
```

## service-policy type data-plane input|output <WORD>

**Description:** QOS policy for Data Plane Policing

**Syntax:**

|             |                               |
|-------------|-------------------------------|
| input       | Ingress Direction             |
| output      | Egress Direction              |
| <i>WORD</i> | Qos Policy Name (Max Size 64) |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# service-policy type data-plane input|output <WORD>
```

## service-policy type data-plane <arg> <WORD>

**Description:** QOS policy for Data Plane Policing

**Syntax:**

|             |                               |
|-------------|-------------------------------|
| <i>arg</i>  |                               |
| <i>WORD</i> | Qos Policy Name (Max Size 64) |

**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)# service-policy type data-plane <> <WORD>
```

### service-policy type data-plane <arg> <WORD>

**Description:** QOS policy for Data Plane Policing

**Syntax:**

|             |                               |
|-------------|-------------------------------|
| <i>arg</i>  |                               |
| <i>WORD</i> | Qos Policy Name (Max Size 64) |

**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)# service-policy type data-plane <> <WORD>
```

### service-policy type data-plane input|output <WORD>

**Description:** QOS policy for Data Plane Policing

**Syntax:**

|             |                               |
|-------------|-------------------------------|
| input       | Ingress Direction             |
| output      | Egress Direction              |
| <i>WORD</i> | Qos Policy Name (Max Size 64) |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# service-policy type data-plane input|output <WORD>
```

### service-policy type data-plane <arg> <WORD>

**Description:** QOS policy for Data Plane Policing

**Syntax:**

|             |                               |
|-------------|-------------------------------|
| <i>arg</i>  |                               |
| <i>WORD</i> | Qos Policy Name (Max Size 64) |

**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)# service-policy type data-plane <> <WORD>
```

**service-policy type data-plane <arg> <WORD>**

**Description:** QOS policy for Data Plane Policing

**Syntax:**

|             |                               |
|-------------|-------------------------------|
| <i>arg</i>  |                               |
| <i>WORD</i> | Qos Policy Name (Max Size 64) |

**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)# service-policy type data-plane <> <WORD>
```

# service-policy type qos

## service-policy type qos <WORD>

**Description:** Qos Policy

**Syntax:**

|             |                                  |
|-------------|----------------------------------|
| <i>WORD</i> | Qos Service Policy (Max Size 64) |
|-------------|----------------------------------|

**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)# service-policy type qos <WORD>
```

## service-policy type qos <WORD>

**Description:** QOS service policy

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Custom Qos Policy for L3Out (Max Size 64) |
|-------------|---|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# service-policy type qos <WORD>
```

## service-policy type qos <WORD>

**Description:** QOS service policy

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Custom Qos Policy for L3Out (Max Size 64) |
|-------------|---|

**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)# service-policy type qos <WORD>
```

**service-policy type qos <WORD>****Description:** QOS service policy**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Custom Qos Policy for L3Out (Max Size 64) |
|-------------|---|

**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)# service-policy type qos <WORD>
```

**service-policy type qos <WORD>****Description:** QOS service policy**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Custom Qos Policy for L3Out (Max Size 64) |
|-------------|---|

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

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# service-policy type qos <WORD>
```

**service-policy type qos <WORD>****Description:** QOS service policy**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Custom Qos Policy for L3Out (Max Size 64) |
|-------------|---|

**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)# service-policy type qos <WORD>
```

**service-policy type qos <WORD>****Description:** QOS service policy**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Custom Qos Policy for L3Out (Max Size 64) |
|-------------|---|

**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)# service-policy type qos <WORD>
```

# service

**service** <WORD> [device-cluster-tenant <WORD>] [device-cluster <WORD>] [mode <Available Modes>] [svcredir <Service Redirection>] [service-type <Service Type>]

**Description:** Configure L4-L7 Service

**Syntax:**

|                            |  |
|----------------------------|--|
| <i>WORD</i>                | Service node name (Max Size 64)              |
| <i>WORD</i>                | (Optional) Tenant name (Max Size 63)         |
| <i>WORD</i>                | (Optional) Device cluster name (Max Size 64) |
| <i>Available Modes</i>     | (Optional) Configure service node mode       |
| <i>Service Redirection</i> | (Optional) Configure service redirection     |
| <i>Service Type</i>        | (Optional) Configure service node type       |

**Command Mode:** l4l7 graph : Configure L4-L7 Service Graph

**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>]
```



# session-record-flags

**session-record-flags** <sessionRecordFlags>

**Description:** Enable/Disable refresh in the session records, Comma separated values

**Syntax:**

|                               |  |
|-------------------------------|--|
| < <i>sessionRecordFlags</i> > | Session record flags as comma separated values like val1,val2,..valN |
|-------------------------------|--|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# crypto webtoken
(config-webtoken)# session-record-flags <sessionRecordFlags>
```

# set

## set <propType> <propVal>

**Description:** Customize leaf aggregate policy values for Control Plane Policing

**Syntax:**

|                 |   |
|-----------------|---|
| <i>propType</i> | propType  |
| <i>propVal</i>  | propVal. Number range from=0 to=9223372036854775807 |

**Command Mode:** policy-map type control-plane-leaf : Create leaf aggregate ControlPlane policy to police/reclassify the traffic

**Command Path:**

```
# configure [['terminal', 't']]
(config)# policy-map type control-plane-leaf <WORD>
(config-pmap-copp-leaf)# set <propType> <propVal>
```

## set <propType> <propVal>

**Description:** Customize spine aggregate policy values for Control Plane Policing

**Syntax:**

|                 |   |
|-----------------|---|
| <i>propType</i> | propType  |
| <i>propVal</i>  | propVal. Number range from=0 to=9223372036854775807 |

**Command Mode:** policy-map type control-plane-spine : Create spine aggregate ControlPlane policy to police/reclassify the traffic

**Command Path:**

```
# configure [['terminal', 't']]
(config)# policy-map type control-plane-spine <WORD>
(config-pmap-copp-spine)# set <propType> <propVal>
```

## set qos-class <WORD>

**Description:** QOS level for the epq

**Syntax:**

|             |                       |
|-------------|-----------------------|
| qos-class   | QOS level for the epq |
| <i>WORD</i> | Qos Level             |

**Command Mode:** epq : 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)# set qos-class <WORD>
```

### set qos-class <WORD>

**Description:** QOS level for the application

#### Syntax:

|             |                               |
|-------------|-------------------------------|
| qos-class   | QOS level for the application |
| <i>WORD</i> | Qos Level                     |

**Command Mode:** application : application configuration mode

#### Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# application <WORD>
(config-tenant-app)# set qos-class <WORD>
```

### set qos-class <WORD>

**Description:** QOS level for the tunnel

#### Syntax:

|             |                          |
|-------------|--------------------------|
| qos-class   | QOS level for the tunnel |
| <i>WORD</i> | Qos Level                |

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

#### Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# dot1q-tunnel <WORD>
(config-tenant-tunnel)#set qos-class <WORD>
```

### set qos-class <contractQosLevel>

**Description:** Specify the QOS level for the epg

#### Syntax:

|                             |                                    |
|-----------------------------|------------------------------------|
| qos-class                   | class of QOS to specify            |
| < <i>contractQosLevel</i> > | {unspecified level1 level2 level3} |

**Command Mode:** inband-mgmt : Enter Inside In-band management mode to modify inband properties or create new inband

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# inband-mgmt epg <WORD>
(config-inb-epg)# set qos-class <contractQosLevel>
```

**set qos-class <WORD>**

**Description:** QOS level for the epg

**Syntax:**

|             |                       |
|-------------|-----------------------|
| qos-class   | QOS level for the epg |
| <i>WORD</i> | Qos Level             |

**Command Mode:** external-l2 : L2 external EPG creation/configuration

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# external-l2 epg <WORD>
(config-tenant-l2ext-epg)# set qos-class <WORD>
```

**set qos-class <WORD>**

**Description:** QOS level for the epg

**Syntax:**

|             |                         |
|-------------|-------------------------|
| qos-class   | class of QOS to specify |
| <i>WORD</i> | Qos Level               |

**Command Mode:** oob-mgmt : Creates/Modify the out of band mgmt under the tenant mgmt

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# oob-mgmt epg <epgval>
(config-oob-epg)# set qos-class <WORD>
```

**set qos-class unspecified|level1|level2|level3|level4|level5|level6**

**Description:** QOS level for interface

**Syntax:**

|           |                         |
|-----------|-------------------------|
| qos-class | QOS level for interface |
|-----------|-------------------------|

|             |                             |
|-------------|-----------------------------|
| unspecified | Set qos level - unspecified |
| level1      | Set qos level - level1      |
| level2      | Set qos level - level2      |
| level3      | Set qos level - level3      |
| level4      | Set qos level - level4      |
| level5      | Set qos level - level5      |
| level6      | Set qos level - level6      |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# set qos-class unspecified|level1|level2|level3|level4|level5|level6
```

**set qos-class unspecified|level1|level2|level3|level4|level5|level6**

**Description:** QOS level for interface

**Syntax:**

| qos-class   | QOS level for interface     |
|-------------|-----------------------------|
| unspecified | Set qos level - unspecified |
| level1      | Set qos level - level1      |
| level2      | Set qos level - level2      |
| level3      | Set qos level - level3      |
| level4      | Set qos level - level4      |
| level5      | Set qos level - level5      |
| level6      | Set qos level - level6      |

**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)# set qos-class unspecified|level1|level2|level3|level4|level5|level6
```

**set qos-class unspecified|level1|level2|level3|level4|level5|level6****Description:** QOS level for interface**Syntax:**

|             |                             |
|-------------|-----------------------------|
| qos-class   | QOS level for interface     |
| unspecified | Set qos level - unspecified |
| level1      | Set qos level - level1      |
| level2      | Set qos level - level2      |
| level3      | Set qos level - level3      |
| level4      | Set qos level - level4      |
| level5      | Set qos level - level5      |
| level6      | Set qos level - level6      |

**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)# set qos-class unspecified|level1|level2|level3|level4|level5|level6
```

**set qos-class unspecified|level1|level2|level3|level4|level5|level6****Description:** QOS level for interface**Syntax:**

|             |                             |
|-------------|-----------------------------|
| qos-class   | QOS level for interface     |
| unspecified | Set qos level - unspecified |
| level1      | Set qos level - level1      |
| level2      | Set qos level - level2      |
| level3      | Set qos level - level3      |
| level4      | Set qos level - level4      |
| level5      | Set qos level - level5      |
| level6      | Set qos level - level6      |

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

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# set qos-class unspecified|level1|level2|level3|level4|level5|level6
```

### set qos-class unspecified|level1|level2|level3|level4|level5|level6

**Description:** QOS level for interface

**Syntax:**

|             |                             |
|-------------|-----------------------------|
| qos-class   | QOS level for interface     |
| unspecified | Set qos level - unspecified |
| level1      | Set qos level - level1      |
| level2      | Set qos level - level2      |
| level3      | Set qos level - level3      |
| level4      | Set qos level - level4      |
| level5      | Set qos level - level5      |
| level6      | Set qos level - level6      |

**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)# set qos-class unspecified|level1|level2|level3|level4|level5|level6
```

### set qos-class unspecified|level1|level2|level3|level4|level5|level6

**Description:** QOS level for interface

**Syntax:**

|             |                             |
|-------------|-----------------------------|
| qos-class   | QOS level for interface     |
| unspecified | Set qos level - unspecified |
| level1      | Set qos level - level1      |
| level2      | Set qos level - level2      |
| level3      | Set qos level - level3      |
| level4      | Set qos level - level4      |
| level5      | Set qos level - level5      |

|        |                        |
|--------|------------------------|
| level6 | Set qos level - level6 |
|--------|------------------------|

**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)# set qos-class unspecified|level1|level2|level3|level4|level5|level6
```



# set addcommunity

**set addcommunity regular|extended <value>**

**Description:** Set BGP additional-community attribute

**Syntax:**

|              |                                 |
|--------------|---------------------------------|
| regular      | BGP regular community           |
| extended     | BGP extended community          |
| <i>value</i> | Community value in aa:nn format |

**Command Mode:** template route-profile : Configure route-profile template under tenant for BGP dampening and route redistribution

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template route-profile <WORD> tenant <WORD>
(config-leaf-template-route-profile)# set addcommunity regular|extended <value>
```

**set addcommunity regular|extended <value>**

**Description:** Set BGP additional-community attribute

**Syntax:**

|              |                                 |
|--------------|---------------------------------|
| regular      | BGP regular community           |
| extended     | BGP extended community          |
| <i>value</i> | Community value in aa:nn format |

**Command Mode:** template route-profile : Configure route-profile template under VRF/L3Out for bridge-domain export

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# vrf context tenant <WORD> vrf <WORD> [l3out <l3out>]
(config-leaf-vrf)# template route-profile <WORD> <WORD> <NUMBER>
(config-leaf-vrf-template-route-profile)# set addcommunity regular|extended <value>
```

**set addcommunity regular|extended <value>**

**Description:** Set BGP additional-community attribute

**Syntax:**

|              |                                 |
|--------------|---------------------------------|
| regular      | BGP regular community           |
| extended     | BGP extended community          |
| <i>value</i> | Community value in aa:nn format |

**Command Mode:** match bridge-domain : Match subnets of a bridge-domain

**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>]
(config-leaf-vrf-route-map-match)# set addcommunity regular|extended <value>
```

**set addcommunity regular|extended <value>**

**Description:** Set BGP additional-community attribute

**Syntax:**

|              |                                 |
|--------------|---------------------------------|
| regular      | BGP regular community           |
| extended     | BGP extended community          |
| <i>value</i> | Community value in aa:nn format |

**Command Mode:** match prefix-list : Match entries of a prefix-list

**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]
(config-leaf-vrf-route-map-match)# set addcommunity regular|extended <value>
```

**set addcommunity regular|extended <value>**

**Description:** Set BGP additional-community attribute

**Syntax:**

|              |                                 |
|--------------|---------------------------------|
| regular      | BGP regular community           |
| extended     | BGP extended community          |
| <i>value</i> | Community value in aa:nn format |

**Command Mode:** match route group : Route group

**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]
(config-leaf-vrf-route-map-match)# set addcommunity regular|extended <value>
```

### set addcommunity regular|extended <value>

**Description:** Set BGP additional-community attribute

#### Syntax:

|              |                                 |
|--------------|---------------------------------|
| regular      | BGP regular community           |
| extended     | BGP extended community          |
| <i>value</i> | Community value in aa:nn format |

**Command Mode:** template route-profile : Configure route-profile template under tenant for BGP dampening and route redistribution

#### Command Path:

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# template route-profile <WORD> tenant <WORD>
(config-leaf-template-route-profile)# set addcommunity regular|extended <value>
```

### set addcommunity regular|extended <value>

**Description:** Set BGP additional-community attribute

#### Syntax:

|              |                                 |
|--------------|---------------------------------|
| regular      | BGP regular community           |
| extended     | BGP extended community          |
| <i>value</i> | Community value in aa:nn format |

**Command Mode:** template route-profile : Configure route-profile template under VRF/L3Out for bridge-domain export

#### Command Path:

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# vrf context tenant <WORD> vrf <WORD> [l3out <l3out>]
(config-leaf-vrf)# template route-profile <WORD> <WORD> <NUMBER>
(config-leaf-vrf-template-route-profile)# set addcommunity regular|extended <value>
```

**set addcommunity regular|extended <value>****Description:** Set BGP additional-community attribute**Syntax:**

|              |                                 |
|--------------|---------------------------------|
| regular      | BGP regular community           |
| extended     | BGP extended community          |
| <i>value</i> | Community value in aa:nn format |

**Command Mode:** match bridge-domain : Match subnets of a bridge-domain**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>]
(config-leaf-vrf-route-map-match)# set addcommunity regular|extended <value>
```

**set addcommunity regular|extended <value>****Description:** Set BGP additional-community attribute**Syntax:**

|              |                                 |
|--------------|---------------------------------|
| regular      | BGP regular community           |
| extended     | BGP extended community          |
| <i>value</i> | Community value in aa:nn format |

**Command Mode:** match prefix-list : Match entries of a prefix-list**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]
(config-leaf-vrf-route-map-match)# set addcommunity regular|extended <value>
```

**set addcommunity regular|extended <value>****Description:** Set BGP additional-community attribute**Syntax:**

|              |                                 |
|--------------|---------------------------------|
| regular      | BGP regular community           |
| extended     | BGP extended community          |
| <i>value</i> | Community value in aa:nn format |

**Command Mode:** match route group : Route group

**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]
(config-leaf-vrf-route-map-match)# set addcommunity regular|extended <value>
```

## set as-path prepend-last-as

### set as-path prepend-last-as <NUMBER>

**Description:** Prepend last AS to the as-path

**Syntax:**

|        |   |
|--------|---|
| <1-10> | Number of last-AS prepends. Number range from=1 to=10 |
|--------|---|

**Command Mode:** template route-profile : Configure route-profile template under tenant for BGP dampening and route redistribution

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template route-profile <WORD> tenant <WORD>
(config-leaf-template-route-profile)# set as-path prepend-last-as <NUMBER>
```

### set as-path prepend-last-as <NUMBER>

**Description:** Prepend last AS to the as-path

**Syntax:**

|        |   |
|--------|---|
| <1-10> | Number of last-AS prepends. Number range from=1 to=10 |
|--------|---|

**Command Mode:** template route-profile : Configure route-profile template under VRF/L3Out for bridge-domain export

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# vrf context tenant <WORD> vrf <WORD> [l3out <l3out>]
(config-leaf-vrf)# template route-profile <WORD> <WORD> <NUMBER>
(config-leaf-vrf-template-route-profile)# set as-path prepend-last-as <NUMBER>
```

### set as-path prepend-last-as <NUMBER>

**Description:** Prepend last AS to the as-path

**Syntax:**

|        |   |
|--------|---|
| <1-10> | Number of last-AS prepends. Number range from=1 to=10 |
|--------|---|

**Command Mode:** match bridge-domain : Match subnets of a bridge-domain

**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>]
(config-leaf-vrf-route-map-match)# set as-path prepend-last-as <NUMBER>
```

### set as-path prepend-last-as <NUMBER>

**Description:** Prepend last AS to the as-path

**Syntax:**

|        |   |
|--------|---|
| <1-10> | Number of last-AS prepends. Number range from=1 to=10 |
|--------|---|

**Command Mode:** match prefix-list : Match entries of a prefix-list

**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]
(config-leaf-vrf-route-map-match)# set as-path prepend-last-as <NUMBER>
```

### set as-path prepend-last-as <NUMBER>

**Description:** Prepend last AS to the as-path

**Syntax:**

|        |   |
|--------|---|
| <1-10> | Number of last-AS prepends. Number range from=1 to=10 |
|--------|---|

**Command Mode:** match route group : Route group

**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]
(config-leaf-vrf-route-map-match)# set as-path prepend-last-as <NUMBER>
```

### set as-path prepend-last-as <NUMBER>

**Description:** Prepend last AS to the as-path

**Syntax:**

|        |   |
|--------|---|
| <1-10> | Number of last-AS prepends. Number range from=1 to=10 |
|--------|---|

**Command Mode:** template route-profile : Configure route-profile template under tenant for BGP dampening and route redistribution

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# template route-profile <WORD> tenant <WORD>
(config-leaf-template-route-profile)# set as-path prepend-last-as <NUMBER>
```

**set as-path prepend-last-as <NUMBER>****Description:** Prepend last AS to the as-path**Syntax:**

|        |   |
|--------|---|
| <1-10> | Number of last-AS prepends. Number range from=1 to=10 |
|--------|---|

**Command Mode:** template route-profile : Configure route-profile template under VRF/L3Out for bridge-domain export**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# vrf context tenant <WORD> vrf <WORD> [l3out <l3out>]
(config-leaf-vrf)# template route-profile <WORD> <WORD> <NUMBER>
(config-leaf-vrf-template-route-profile)# set as-path prepend-last-as <NUMBER>
```

**set as-path prepend-last-as <NUMBER>****Description:** Prepend last AS to the as-path**Syntax:**

|        |   |
|--------|---|
| <1-10> | Number of last-AS prepends. Number range from=1 to=10 |
|--------|---|

**Command Mode:** match bridge-domain : Match subnets of a bridge-domain**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>]
(config-leaf-vrf-route-map-match)# set as-path prepend-last-as <NUMBER>
```

**set as-path prepend-last-as <NUMBER>****Description:** Prepend last AS to the as-path**Syntax:**

|        |   |
|--------|---|
| <1-10> | Number of last-AS prepends. Number range from=1 to=10 |
|--------|---|

**Command Mode:** match prefix-list : Match entries of a prefix-list**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]
(config-leaf-vrf-route-map-match)# set as-path prepend-last-as <NUMBER>
```

### set as-path prepend-last-as <NUMBER>

**Description:** Prepend last AS to the as-path

#### Syntax:

|        |   |
|--------|---|
| <1-10> | Number of last-AS prepends. Number range from=1 to=10 |
|--------|---|

**Command Mode:** match route group : Route group

#### 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]
(config-leaf-vrf-route-map-match)# set as-path prepend-last-as <NUMBER>
```

# set as-path prepend

**set as-path prepend <1-4294967295>**

**Description:** Prepend to the AS-Path

**Syntax:**

|                |                        |
|----------------|------------------------|
| <1-4294967295> | Prepend to the AS-Path |
|----------------|------------------------|

**Command Mode:** template route-profile : Configure route-profile template under tenant for BGP dampening and route redistribution

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template route-profile <WORD> tenant <WORD>
(config-leaf-template-route-profile)# set as-path prepend <1-4294967295>
```

**set as-path prepend <1-4294967295>**

**Description:** Prepend to the AS-Path

**Syntax:**

|                |                        |
|----------------|------------------------|
| <1-4294967295> | Prepend to the AS-Path |
|----------------|------------------------|

**Command Mode:** template route-profile : Configure route-profile template under VRF/L3Out for bridge-domain export

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# vrf context tenant <WORD> vrf <WORD> [l3out <l3out>]
(config-leaf-vrf)# template route-profile <WORD> <WORD> <NUMBER>
(config-leaf-vrf-template-route-profile)# set as-path prepend <1-4294967295>
```

**set as-path prepend <1-4294967295>**

**Description:** Prepend to the AS-Path

**Syntax:**

|                |                        |
|----------------|------------------------|
| <1-4294967295> | Prepend to the AS-Path |
|----------------|------------------------|

**Command Mode:** match bridge-domain : Match subnets of a bridge-domain

**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>]
(config-leaf-vrf-route-map-match)# set as-path prepend <l-4294967295>
```

**set as-path prepend <l-4294967295>****Description:** Prepend to the AS-Path**Syntax:**

|                |                        |
|----------------|------------------------|
| <l-4294967295> | Prepend to the AS-Path |
|----------------|------------------------|

**Command Mode:** match prefix-list : Match entries of a prefix-list**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]
(config-leaf-vrf-route-map-match)# set as-path prepend <l-4294967295>
```

**set as-path prepend <l-4294967295>****Description:** Prepend to the AS-Path**Syntax:**

|                |                        |
|----------------|------------------------|
| <l-4294967295> | Prepend to the AS-Path |
|----------------|------------------------|

**Command Mode:** match route group : Route group**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]
(config-leaf-vrf-route-map-match)# set as-path prepend <l-4294967295>
```

**set as-path prepend <l-4294967295>****Description:** Prepend to the AS-Path**Syntax:**

|                |                        |
|----------------|------------------------|
| <l-4294967295> | Prepend to the AS-Path |
|----------------|------------------------|

**Command Mode:** template route-profile : Configure route-profile template under tenant for BGP dampening and route redistribution**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# template route-profile <WORD> tenant <WORD>
(config-leaf-template-route-profile)# set as-path prepend <1-4294967295>
```

**set as-path prepend <1-4294967295>****Description:** Prepend to the AS-Path**Syntax:**

|                |                        |
|----------------|------------------------|
| <1-4294967295> | Prepend to the AS-Path |
|----------------|------------------------|

**Command Mode:** template route-profile : Configure route-profile template under VRF/L3Out for bridge-domain export

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# vrf context tenant <WORD> vrf <WORD> [l3out <l3out>]
(config-leaf-vrf)# template route-profile <WORD> <WORD> <NUMBER>
(config-leaf-vrf-template-route-profile)# set as-path prepend <1-4294967295>
```

**set as-path prepend <1-4294967295>****Description:** Prepend to the AS-Path**Syntax:**

|                |                        |
|----------------|------------------------|
| <1-4294967295> | Prepend to the AS-Path |
|----------------|------------------------|

**Command Mode:** match bridge-domain : Match subnets of a bridge-domain

**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>]
(config-leaf-vrf-route-map-match)# set as-path prepend <1-4294967295>
```

**set as-path prepend <1-4294967295>****Description:** Prepend to the AS-Path**Syntax:**

|                |                        |
|----------------|------------------------|
| <1-4294967295> | Prepend to the AS-Path |
|----------------|------------------------|

**Command Mode:** match prefix-list : Match entries of a prefix-list

**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]
(config-leaf-vrf-route-map-match)# set as-path prepend <1-4294967295>
```

### set as-path prepend <1-4294967295>

**Description:** Prepend to the AS-Path

#### Syntax:

|                |                        |
|----------------|------------------------|
| <1-4294967295> | Prepend to the AS-Path |
|----------------|------------------------|

**Command Mode:** match route group : Route group

#### 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]
(config-leaf-vrf-route-map-match)# set as-path prepend <1-4294967295>
```

# set burst

**set burst <0-549755813760> UNIT**

**Description:** Burst Rate

**Syntax:**

|                  |                 |
|------------------|-----------------|
| <0-549755813760> | Burst Rate      |
| UNIT             | Burst Rate Unit |

**Command Mode:** policy-map type data-plane : Create a policymap of DataPlane type to police/reclassify the traffic

**Command Path:**

```
# configure [['terminal', 't']]
(config)# policy-map type data-plane <WORD>
(config-pmap-dpp)# set burst <0-549755813760> UNIT
```

**set burst <0-549755813760> UNIT**

**Description:** Burst Rate

**Syntax:**

|                  |                 |
|------------------|-----------------|
| <0-549755813760> | Burst Rate      |
| UNIT             | Burst Rate Unit |

**Command Mode:** policy-map type data-plane : data-plane policy type

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# policy-map type data-plane <WORD>
(config-tenant-pmap-dpp)# set burst <0-549755813760> UNIT
```

# set cir

**set cir <0-4398046510080> UNIT**

**Description:** Committed Rate

**Syntax:**

|                                |                     |
|--------------------------------|---------------------|
| <i>&lt;0-4398046510080&gt;</i> | Committed Rate      |
| <i>UNIT</i>                    | Committed Rate Unit |

**Command Mode:** policy-map type data-plane : Create a policymap of DataPlane type to police/reclassify the traffic

**Command Path:**

```
# configure [['terminal', 't']]
(config)# policy-map type data-plane <WORD>
(config-pmap-dpp)# set cir <0-4398046510080> UNIT
```

**set cir <0-4398046510080> UNIT**

**Description:** Committed Rate

**Syntax:**

|                                |                     |
|--------------------------------|---------------------|
| <i>&lt;0-4398046510080&gt;</i> | Committed Rate      |
| <i>UNIT</i>                    | Committed Rate Unit |

**Command Mode:** policy-map type data-plane : data-plane policy type

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# policy-map type data-plane <WORD>
(config-tenant-pmap-dpp)# set cir <0-4398046510080> UNIT
```

# set community

**set community regular|extended <value> additive|replace|none**

**Description:** Set BGP community attribute

**Syntax:**

|              |                                 |
|--------------|---------------------------------|
| regular      | BGP regular community           |
| extended     | BGP extended community          |
| <i>value</i> | Community value in aa:nn format |
| additive     | Add to existing community       |
| replace      | Replace existing community      |
| none         | Do not change community         |

**Command Mode:** route-profile : Configure route-profile

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# vrf context <WORD>
(config-tenant-vrf)# route-profile <WORD>
(config-tenant-vrf-route-profile)# set community regular|extended <value>
additive|replace|none
```

**set community regular|extended <value> additive|replace|none**

**Description:** Set BGP community attribute

**Syntax:**

|              |                                 |
|--------------|---------------------------------|
| regular      | BGP regular community           |
| extended     | BGP extended community          |
| <i>value</i> | Community value in aa:nn format |
| additive     | Add to existing community       |
| replace      | Replace existing community      |
| none         | Do not change community         |

**Command Mode:** template route-profile : Configure route-profile template under tenant for BGP dampening and route redistribution

**Command Path:**



```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template route-profile <WORD> tenant <WORD>
(config-leaf-template-route-profile)# set community regular|extended <value>
additive|replace|none
```

### set community regular|extended <value> additive|replace|none

**Description:** Set BGP community attribute

#### Syntax:

|              |                                 |
|--------------|---------------------------------|
| regular      | BGP regular community           |
| extended     | BGP extended community          |
| <i>value</i> | Community value in aa:nn format |
| additive     | Add to existing community       |
| replace      | Replace existing community      |
| none         | Do not change community         |

**Command Mode:** template route-profile : Configure route-profile template under VRF/L3Out for bridge-domain export

#### Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# vrf context tenant <WORD> vrf <WORD> [l3out <l3out>]
(config-leaf-vrf)# template route-profile <WORD> <WORD> <NUMBER>
(config-leaf-vrf-template-route-profile)# set community regular|extended <value>
additive|replace|none
```

### set community regular|extended <value> additive|replace|none

**Description:** Set BGP community attribute

#### Syntax:

|              |                                 |
|--------------|---------------------------------|
| regular      | BGP regular community           |
| extended     | BGP extended community          |
| <i>value</i> | Community value in aa:nn format |
| additive     | Add to existing community       |
| replace      | Replace existing community      |
| none         | Do not change community         |

**Command Mode:** match bridge-domain : Match subnets of a bridge-domain

**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>]
(config-leaf-vrf-route-map-match)# set community regular|extended <value>
additive|replace|none
```

**set community regular|extended <value> additive|replace|none****Description:** Set BGP community attribute**Syntax:**

|              |                                 |
|--------------|---------------------------------|
| regular      | BGP regular community           |
| extended     | BGP extended community          |
| <i>value</i> | Community value in aa:nn format |
| additive     | Add to existing community       |
| replace      | Replace existing community      |
| none         | Do not change community         |

**Command Mode:** match prefix-list : Match entries of a prefix-list**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]
(config-leaf-vrf-route-map-match)# set community regular|extended <value>
additive|replace|none
```

**set community regular|extended <value> additive|replace|none****Description:** Set BGP community attribute**Syntax:**

|              |                                 |
|--------------|---------------------------------|
| regular      | BGP regular community           |
| extended     | BGP extended community          |
| <i>value</i> | Community value in aa:nn format |
| additive     | Add to existing community       |
| replace      | Replace existing community      |

|      |                         |
|------|-------------------------|
| none | Do not change community |
|------|-------------------------|

**Command Mode:** match route group : Route group

**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]
(config-leaf-vrf-route-map-match)# set community regular|extended <value>
additive|replace|none
```

**set community regular|extended <value> additive|replace|none**

**Description:** Set BGP community attribute

**Syntax:**

|              |                                 |
|--------------|---------------------------------|
| regular      | BGP regular community           |
| extended     | BGP extended community          |
| <i>value</i> | Community value in aa:nn format |
| additive     | Add to existing community       |
| replace      | Replace existing community      |
| none         | Do not change community         |

**Command Mode:** template route-profile : Configure route-profile template under tenant for BGP dampening and route redistribution

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# template route-profile <WORD> tenant <WORD>
(config-leaf-template-route-profile)# set community regular|extended <value>
additive|replace|none
```

**set community regular|extended <value> additive|replace|none**

**Description:** Set BGP community attribute

**Syntax:**

|              |                                 |
|--------------|---------------------------------|
| regular      | BGP regular community           |
| extended     | BGP extended community          |
| <i>value</i> | Community value in aa:nn format |
| additive     | Add to existing community       |

|         |                            |
|---------|----------------------------|
| replace | Replace existing community |
| none    | Do not change community    |

**Command Mode:** template route-profile : Configure route-profile template under VRF/L3Out for bridge-domain export

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# vrf context tenant <WORD> vrf <WORD> [l3out <l3out>]
(config-leaf-vrf)# template route-profile <WORD> <WORD> <NUMBER>
(config-leaf-vrf-template-route-profile)# set community regular|extended <value>
additive|replace|none
```

**set community regular|extended <value> additive|replace|none**

**Description:** Set BGP community attribute

**Syntax:**

|              |                                 |
|--------------|---------------------------------|
| regular      | BGP regular community           |
| extended     | BGP extended community          |
| <i>value</i> | Community value in aa.nn format |
| additive     | Add to existing community       |
| replace      | Replace existing community      |
| none         | Do not change community         |

**Command Mode:** match bridge-domain : Match subnets of a bridge-domain

**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>]
(config-leaf-vrf-route-map-match)# set community regular|extended <value>
additive|replace|none
```

**set community regular|extended <value> additive|replace|none**

**Description:** Set BGP community attribute

**Syntax:**

|          |                        |
|----------|------------------------|
| regular  | BGP regular community  |
| extended | BGP extended community |

|              |                                 |
|--------------|---------------------------------|
| <i>value</i> | Community value in aa:nn format |
| additive     | Add to existing community       |
| replace      | Replace existing community      |
| none         | Do not change community         |

**Command Mode:** match prefix-list : Match entries of a prefix-list

**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]
(config-leaf-vrf-route-map-match)# set community regular|extended <value>
additive|replace|none
```

**set community regular|extended <value> additive|replace|none**

**Description:** Set BGP community attribute

**Syntax:**

|              |                                 |
|--------------|---------------------------------|
| regular      | BGP regular community           |
| extended     | BGP extended community          |
| <i>value</i> | Community value in aa:nn format |
| additive     | Add to existing community       |
| replace      | Replace existing community      |
| none         | Do not change community         |

**Command Mode:** match route group : Route group

**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]
(config-leaf-vrf-route-map-match)# set community regular|extended <value>
additive|replace|none
```

# set conform-cos-transmit

## set conform-cos-transmit <0-6>

**Description:** Conform Policer Mark Cos

**Syntax:**

|       |                          |
|-------|--------------------------|
| <0-6> | Conform Policer Mark Cos |
|-------|--------------------------|

**Command Mode:** policy-map type data-plane : Create a policymap of DataPlane type to police/reclassify the traffic

**Command Path:**

```
# configure [['terminal', 't']]
(config)# policy-map type data-plane <WORD>
(config-pmap-dpp)# set conform-cos-transmit <0-6>
```

## set conform-cos-transmit <0-6>

**Description:** Conform Policer Mark Cos

**Syntax:**

|       |                          |
|-------|--------------------------|
| <0-6> | Conform Policer Mark Cos |
|-------|--------------------------|

**Command Mode:** policy-map type data-plane : data-plane policy type

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# policy-map type data-plane <WORD>
(config-tenant-pmap-dpp)# set conform-cos-transmit <0-6>
```

# set conform-dscp-transmit

**set conform-dscp-transmit <0-63>**

**Description:** Conform Policer Mark DSCP

**Syntax:**

|        |                           |
|--------|---------------------------|
| <0-63> | Conform Policer Mark DSCP |
|--------|---------------------------|

**Command Mode:** policy-map type data-plane : Create a policymap of DataPlane type to police/reclassify the traffic

**Command Path:**

```
# configure [['terminal', 't']]
(config)# policy-map type data-plane <WORD>
(config-pmap-dpp)# set conform-dscp-transmit <0-63>
```

**set conform-dscp-transmit <0-63>**

**Description:** Conform Policer Mark DSCP

**Syntax:**

|        |                           |
|--------|---------------------------|
| <0-63> | Conform Policer Mark DSCP |
|--------|---------------------------|

**Command Mode:** policy-map type data-plane : data-plane policy type

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# policy-map type data-plane <WORD>
(config-tenant-pmap-dpp)# set conform-dscp-transmit <0-63>
```

# set conform

## set conform <WORD>

**Description:** Conform Policer Action

**Syntax:**

|             |                        |
|-------------|------------------------|
| <i>WORD</i> | Conform Policer Action |
|-------------|------------------------|

**Command Mode:** policy-map type data-plane : Create a policymap of DataPlane type to police/reclassify the traffic

**Command Path:**

```
# configure [['terminal', 't']]
(config)# policy-map type data-plane <WORD>
(config-pmap-dpp)# set conform <WORD>
```

## set conform <WORD>

**Description:** Conform Policer Action

**Syntax:**

|             |                        |
|-------------|------------------------|
| <i>WORD</i> | Conform Policer Action |
|-------------|------------------------|

**Command Mode:** policy-map type data-plane : data-plane policy type

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# policy-map type data-plane <WORD>
(config-tenant-pmap-dpp)# set conform <WORD>
```



# set dampening

**set dampening** <NUMBER> <NUMBER> <NUMBER> <NUMBER>

**Description:** Route Flap dampening

**Syntax:**

|           |  |
|-----------|--|
| <1-60>    | Decay half life. Number range from=1 to=60                         |
| <1-20000> | Value to start reusing a route. Number range from=1 to=20000       |
| <1-20000> | Value to start suppressing a route. Number range from=1 to=20000   |
| <1-255>   | Maximum suppress time for stable route. Number range from=1 to=255 |

**Command Mode:** template route-profile : Configure route-profile template under tenant for BGP dampening and route redistribution

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template route-profile <WORD> tenant <WORD>
(config-leaf-template-route-profile)# set dampening <NUMBER> <NUMBER> <NUMBER> <NUMBER>
```

**set dampening** <NUMBER> <NUMBER> <NUMBER> <NUMBER>

**Description:** Route Flap dampening

**Syntax:**

|           |  |
|-----------|--|
| <1-60>    | Decay half life. Number range from=1 to=60                         |
| <1-20000> | Value to start reusing a route. Number range from=1 to=20000       |
| <1-20000> | Value to start suppressing a route. Number range from=1 to=20000   |
| <1-255>   | Maximum suppress time for stable route. Number range from=1 to=255 |

**Command Mode:** template route-profile : Configure route-profile template under VRF/L3Out for bridge-domain export

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# vrf context tenant <WORD> vrf <WORD> [l3out <l3out>]
(config-leaf-vrf)# template route-profile <WORD> <WORD> <NUMBER>
(config-leaf-vrf-template-route-profile)# set dampening <NUMBER> <NUMBER> <NUMBER> <NUMBER>
```

**set dampening <NUMBER> <NUMBER> <NUMBER> <NUMBER>****Description:** Route Flap dampening**Syntax:**

|           |  |
|-----------|--|
| <1-60>    | Decay half life. Number range from=1 to=60                         |
| <1-20000> | Value to start reusing a route. Number range from=1 to=20000       |
| <1-20000> | Value to start suppressing a route. Number range from=1 to=20000   |
| <1-255>   | Maximum suppress time for stable route. Number range from=1 to=255 |

**Command Mode:** match bridge-domain : Match subnets of a bridge-domain**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>]
(config-leaf-vrf-route-map-match)# set dampening <NUMBER> <NUMBER> <NUMBER> <NUMBER>
```

**set dampening <NUMBER> <NUMBER> <NUMBER> <NUMBER>****Description:** Route Flap dampening**Syntax:**

|           |  |
|-----------|--|
| <1-60>    | Decay half life. Number range from=1 to=60                         |
| <1-20000> | Value to start reusing a route. Number range from=1 to=20000       |
| <1-20000> | Value to start suppressing a route. Number range from=1 to=20000   |
| <1-255>   | Maximum suppress time for stable route. Number range from=1 to=255 |

**Command Mode:** match prefix-list : Match entries of a prefix-list**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]
(config-leaf-vrf-route-map-match)# set dampening <NUMBER> <NUMBER> <NUMBER> <NUMBER>
```

**set dampening <NUMBER> <NUMBER> <NUMBER> <NUMBER>****Description:** Route Flap dampening**Syntax:**

|        |  |
|--------|--|
| <1-60> | Decay half life. Number range from=1 to=60 |
|--------|--|

|           |  |
|-----------|--|
| <1-20000> | Value to start reusing a route. Number range from=1 to=20000       |
| <1-20000> | Value to start suppressing a route. Number range from=1 to=20000   |
| <1-255>   | Maximum suppress time for stable route. Number range from=1 to=255 |

**Command Mode:** match route group : Route group

**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]
(config-leaf-vrf-route-map-match)# set dampening <NUMBER> <NUMBER> <NUMBER> <NUMBER>
```

**set dampening <NUMBER> <NUMBER> <NUMBER> <NUMBER>**

**Description:** Route Flap dampening

**Syntax:**

|           |  |
|-----------|--|
| <1-60>    | Decay half life. Number range from=1 to=60                         |
| <1-20000> | Value to start reusing a route. Number range from=1 to=20000       |
| <1-20000> | Value to start suppressing a route. Number range from=1 to=20000   |
| <1-255>   | Maximum suppress time for stable route. Number range from=1 to=255 |

**Command Mode:** template route-profile : Configure route-profile template under tenant for BGP dampening and route redistribution

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# template route-profile <WORD> tenant <WORD>
(config-leaf-template-route-profile)# set dampening <NUMBER> <NUMBER> <NUMBER> <NUMBER>
```

**set dampening <NUMBER> <NUMBER> <NUMBER> <NUMBER>**

**Description:** Route Flap dampening

**Syntax:**

|           |  |
|-----------|--|
| <1-60>    | Decay half life. Number range from=1 to=60                         |
| <1-20000> | Value to start reusing a route. Number range from=1 to=20000       |
| <1-20000> | Value to start suppressing a route. Number range from=1 to=20000   |
| <1-255>   | Maximum suppress time for stable route. Number range from=1 to=255 |

**Command Mode:** template route-profile : Configure route-profile template under VRF/L3Out for bridge-domain export

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# vrf context tenant <WORD> vrf <WORD> [l3out <l3out>]
(config-leaf-vrf)# template route-profile <WORD> <WORD> <NUMBER>
(config-leaf-vrf-template-route-profile)# set dampening <NUMBER> <NUMBER> <NUMBER> <NUMBER>
```

**set dampening <NUMBER> <NUMBER> <NUMBER> <NUMBER>**

**Description:** Route Flap dampening

**Syntax:**

|           |  |
|-----------|--|
| <1-60>    | Decay half life. Number range from=1 to=60                         |
| <1-20000> | Value to start reusing a route. Number range from=1 to=20000       |
| <1-20000> | Value to start suppressing a route. Number range from=1 to=20000   |
| <1-255>   | Maximum suppress time for stable route. Number range from=1 to=255 |

**Command Mode:** match bridge-domain : Match subnets of a bridge-domain

**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>]
(config-leaf-vrf-route-map-match)# set dampening <NUMBER> <NUMBER> <NUMBER> <NUMBER>
```

**set dampening <NUMBER> <NUMBER> <NUMBER> <NUMBER>**

**Description:** Route Flap dampening

**Syntax:**

|           |  |
|-----------|--|
| <1-60>    | Decay half life. Number range from=1 to=60                         |
| <1-20000> | Value to start reusing a route. Number range from=1 to=20000       |
| <1-20000> | Value to start suppressing a route. Number range from=1 to=20000   |
| <1-255>   | Maximum suppress time for stable route. Number range from=1 to=255 |

**Command Mode:** match prefix-list : Match entries of a prefix-list

**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]
(config-leaf-vrf-route-map-match)# set dampening <NUMBER> <NUMBER> <NUMBER> <NUMBER>
```

### set dampening <NUMBER> <NUMBER> <NUMBER> <NUMBER>

**Description:** Route Flap dampening

#### Syntax:

|           |  |
|-----------|--|
| <1-60>    | Decay half life. Number range from=1 to=60                         |
| <1-20000> | Value to start reusing a route. Number range from=1 to=20000       |
| <1-20000> | Value to start suppressing a route. Number range from=1 to=20000   |
| <1-255>   | Maximum suppress time for stable route. Number range from=1 to=255 |

**Command Mode:** match route group : Route group

#### 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]
(config-leaf-vrf-route-map-match)# set dampening <NUMBER> <NUMBER> <NUMBER> <NUMBER>
```

# set dscp-code

**set dscp-code** <dscp-prop> <dscp-val>

**Description:** Set DSCP Class translation values

**Syntax:**

|                  |                 |
|------------------|-----------------|
| <i>dscp-prop</i> | DSCP Class Name |
| <i>dscp-val</i>  | Dscp val        |

**Command Mode:** qos : Set DSCP Class translation values

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# qos dscp-map <WORD>
(config-qos-cmap)# set dscp-code <dscp-prop> <dscp-val>
```

# set dscp

**set dscp** <WORD>

**Description:** Specify the DSCP level for the EPG

**Syntax:**

|             |            |
|-------------|------------|
| <i>WORD</i> | DSCP value |
|-------------|------------|

**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)# set dscp <WORD>
```

# set exceed-cos-transmit

## set exceed-cos-transmit <0-6>

**Description:** Exceed Policer Mark Cos

**Syntax:**

|       |                         |
|-------|-------------------------|
| <0-6> | Exceed Policer Mark Cos |
|-------|-------------------------|

**Command Mode:** policy-map type data-plane : Create a policymap of DataPlane type to police/reclassify the traffic

**Command Path:**

```
# configure [['terminal', 't']]
(config)# policy-map type data-plane <WORD>
(config-pmap-dpp)# set exceed-cos-transmit <0-6>
```

## set exceed-cos-transmit <0-6>

**Description:** Exceed Policer Mark Cos

**Syntax:**

|       |                         |
|-------|-------------------------|
| <0-6> | Exceed Policer Mark Cos |
|-------|-------------------------|

**Command Mode:** policy-map type data-plane : data-plane policy type

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# policy-map type data-plane <WORD>
(config-tenant-pmap-dpp)# set exceed-cos-transmit <0-6>
```



# set exceed-dscp-transmit

**set exceed-dscp-transmit <0-63>**

**Description:** Exceed Policer Mark DSCP

**Syntax:**

|        |                          |
|--------|--------------------------|
| <0-63> | Exceed Policer Mark DSCP |
|--------|--------------------------|

**Command Mode:** policy-map type data-plane : Create a policymap of DataPlane type to police/reclassify the traffic

**Command Path:**

```
# configure [['terminal', 't']]
(config)# policy-map type data-plane <WORD>
(config-pmap-dpp)# set exceed-dscp-transmit <0-63>
```

**set exceed-dscp-transmit <0-63>**

**Description:** Exceed Policer Mark DSCP

**Syntax:**

|        |                          |
|--------|--------------------------|
| <0-63> | Exceed Policer Mark DSCP |
|--------|--------------------------|

**Command Mode:** policy-map type data-plane : data-plane policy type

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# policy-map type data-plane <WORD>
(config-tenant-pmap-dpp)# set exceed-dscp-transmit <0-63>
```

# set exceed

**set exceed <WORD>**

**Description:** Exceed Policer Action

**Syntax:**

|             |                       |
|-------------|-----------------------|
| <i>WORD</i> | Exceed Policer Action |
|-------------|-----------------------|

**Command Mode:** policy-map type data-plane : Create a policymap of DataPlane type to police/reclassify the traffic

**Command Path:**

```
# configure [['terminal', 't']]
(config)# policy-map type data-plane <WORD>
(config-pmap-dpp)# set exceed <WORD>
```

**set exceed <WORD>**

**Description:** Exceed Policer Action

**Syntax:**

|             |                       |
|-------------|-----------------------|
| <i>WORD</i> | Exceed Policer Action |
|-------------|-----------------------|

**Command Mode:** policy-map type data-plane : data-plane policy type

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# policy-map type data-plane <WORD>
(config-tenant-pmap-dpp)# set exceed <WORD>
```

## set excessive-burst

**set excessive-burst** <0-549755813760> UNIT

**Description:** Excessive Burst Rate

**Syntax:**

|                  |                           |
|------------------|---------------------------|
| <0-549755813760> | Excessive Burst Rate      |
| UNIT             | Excessive Burst Rate Unit |

**Command Mode:** policy-map type data-plane : Create a policymap of DataPlane type to police/reclassify the traffic

**Command Path:**

```
# configure [['terminal', 't']]
(config)# policy-map type data-plane <WORD>
(config-pmap-dpp)# set excessive-burst <0-549755813760> UNIT
```

**set excessive-burst** <0-549755813760> UNIT

**Description:** Excessive Burst Rate

**Syntax:**

|                  |                           |
|------------------|---------------------------|
| <0-549755813760> | Excessive Burst Rate      |
| UNIT             | Excessive Burst Rate Unit |

**Command Mode:** policy-map type data-plane : data-plane policy type

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# policy-map type data-plane <WORD>
(config-tenant-pmap-dpp)# set excessive-burst <0-549755813760> UNIT
```

# set local-preference

## set local-preference <0-4294967295>

**Description:** BGP local preference path attribute

**Syntax:**

|                |                  |
|----------------|------------------|
| <0-4294967295> | Preference value |
|----------------|------------------|

**Command Mode:** route-profile : Configure route-profile

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# vrf context <WORD>
(config-tenant-vrf)# route-profile <WORD>
(config-tenant-vrf-route-profile)# set local-preference <0-4294967295>
```

## set local-preference <0-4294967295>

**Description:** BGP local preference path attribute

**Syntax:**

|                |                  |
|----------------|------------------|
| <0-4294967295> | Preference value |
|----------------|------------------|

**Command Mode:** template route-profile : Configure route-profile template under tenant for BGP dampening and route redistribution

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template route-profile <WORD> tenant <WORD>
(config-leaf-template-route-profile)# set local-preference <0-4294967295>
```

## set local-preference <0-4294967295>

**Description:** BGP local preference path attribute

**Syntax:**

|                |                  |
|----------------|------------------|
| <0-4294967295> | Preference value |
|----------------|------------------|

**Command Mode:** template route-profile : Configure route-profile template under VRF/L3Out for bridge-domain export

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
```

```
(config-leaf)# vrf context tenant <WORD> vrf <WORD> [l3out <l3out>]
(config-leaf-vrf)# template route-profile <WORD> <WORD> <NUMBER>
(config-leaf-vrf-template-route-profile)# set local-preference <0-4294967295>
```

**set local-preference <0-4294967295>****Description:** BGP local preference path attribute**Syntax:**

|                |                  |
|----------------|------------------|
| <0-4294967295> | Preference value |
|----------------|------------------|

**Command Mode:** match bridge-domain : Match subnets of a bridge-domain**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>]
(config-leaf-vrf-route-map-match)# set local-preference <0-4294967295>
```

**set local-preference <0-4294967295>****Description:** BGP local preference path attribute**Syntax:**

|                |                  |
|----------------|------------------|
| <0-4294967295> | Preference value |
|----------------|------------------|

**Command Mode:** match prefix-list : Match entries of a prefix-list**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]
(config-leaf-vrf-route-map-match)# set local-preference <0-4294967295>
```

**set local-preference <0-4294967295>****Description:** BGP local preference path attribute**Syntax:**

|                |                  |
|----------------|------------------|
| <0-4294967295> | Preference value |
|----------------|------------------|

**Command Mode:** match route group : Route group**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]
(config-leaf-vrf-route-map-match)# set local-preference <0-4294967295>
```

**set local-preference <0-4294967295>****Description:** BGP local preference path attribute**Syntax:**

|                |                  |
|----------------|------------------|
| <0-4294967295> | Preference value |
|----------------|------------------|

**Command Mode:** template route-profile : Configure route-profile template under tenant for BGP dampening and route redistribution**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# template route-profile <WORD> tenant <WORD>
(config-leaf-template-route-profile)# set local-preference <0-4294967295>
```

**set local-preference <0-4294967295>****Description:** BGP local preference path attribute**Syntax:**

|                |                  |
|----------------|------------------|
| <0-4294967295> | Preference value |
|----------------|------------------|

**Command Mode:** template route-profile : Configure route-profile template under VRF/L3Out for bridge-domain export**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# vrf context tenant <WORD> vrf <WORD> [l3out <l3out>]
(config-leaf-vrf)# template route-profile <WORD> <WORD> <NUMBER>
(config-leaf-vrf-template-route-profile)# set local-preference <0-4294967295>
```

**set local-preference <0-4294967295>****Description:** BGP local preference path attribute**Syntax:**

|                |                  |
|----------------|------------------|
| <0-4294967295> | Preference value |
|----------------|------------------|

**Command Mode:** match bridge-domain : Match subnets of a bridge-domain**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>]
(config-leaf-vrf-route-map-match)# set local-preference <0-4294967295>
```

### set local-preference <0-4294967295>

**Description:** BGP local preference path attribute

**Syntax:**

|                |                  |
|----------------|------------------|
| <0-4294967295> | Preference value |
|----------------|------------------|

**Command Mode:** match prefix-list : Match entries of a prefix-list

**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]
(config-leaf-vrf-route-map-match)# set local-preference <0-4294967295>
```

### set local-preference <0-4294967295>

**Description:** BGP local preference path attribute

**Syntax:**

|                |                  |
|----------------|------------------|
| <0-4294967295> | Preference value |
|----------------|------------------|

**Command Mode:** match route group : Route group

**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]
(config-leaf-vrf-route-map-match)# set local-preference <0-4294967295>
```

# set mac-auth

**set mac-auth** <WORD>

**Description:** Set MAC Auth

**Syntax:**

|             |               |
|-------------|---------------|
| <i>WORD</i> | MAC Auth Mode |
|-------------|---------------|

**Command Mode:** switchport port-authentication : Port authentication configuration

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template policy-group <WORD>
(config-pol-grp-if)# switchport port-authentication <WORD>
(config-port-authentication)# set mac-auth <WORD>
```



# set max-reauth-request

**set max-reauth-request <1-10>**

**Description:** Set max reauth request

**Syntax:**

|        |                    |
|--------|--------------------|
| <1-10> | Max reauth request |
|--------|--------------------|

**Command Mode:** switchport port-authentication : Port authentication configuration

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template policy-group <WORD>
(config-pol-grp-if)# switchport port-authentication <WORD>
(config-port-authentication)# set max-reauth-request <1-10>
```

# set max-request

**set max-request <2-10>**

**Description:** Set max request

**Syntax:**

|        |             |
|--------|-------------|
| <2-10> | Max request |
|--------|-------------|

**Command Mode:** switchport port-authentication : Port authentication configuration

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template policy-group <WORD>
(config-pol-grp-if)# switchport port-authentication <WORD>
(config-port-authentication)# set max-request <2-10>
```

## set metric-type

### set metric-type <metric-type>

**Description:** Type of metric for destination routing protocol

**Syntax:**

|               |               |
|---------------|---------------|
| <metric-type> | <metric-type> |
|---------------|---------------|

**Command Mode:** route-profile : Configure route-profile

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# vrf context <WORD>
(config-tenant-vrf)# route-profile <WORD>
(config-tenant-vrf-route-profile)# set metric-type <metric-type>
```

### set metric-type <metric-type>

**Description:** Type of metric for destination routing protocol

**Syntax:**

|               |               |
|---------------|---------------|
| <metric-type> | <metric-type> |
|---------------|---------------|

**Command Mode:** template route-profile : Configure route-profile template under tenant for BGP dampening and route redistribution

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template route-profile <WORD> tenant <WORD>
(config-leaf-template-route-profile)# set metric-type <metric-type>
```

### set metric-type <metric-type>

**Description:** Type of metric for destination routing protocol

**Syntax:**

|               |               |
|---------------|---------------|
| <metric-type> | <metric-type> |
|---------------|---------------|

**Command Mode:** template route-profile : Configure route-profile template under VRF/L3Out for bridge-domain export

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
```

```
(config-leaf)# vrf context tenant <WORD> vrf <WORD> [l3out <l3out>]
(config-leaf-vrf)# template route-profile <WORD> <WORD> <NUMBER>
(config-leaf-vrf-template-route-profile)# set metric-type <metric-type>
```

**set metric-type <metric-type>****Description:** Type of metric for destination routing protocol**Syntax:**

|               |               |
|---------------|---------------|
| <metric-type> | <metric-type> |
|---------------|---------------|

**Command Mode:** match bridge-domain : Match subnets of a bridge-domain**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>]
(config-leaf-vrf-route-map-match)# set metric-type <metric-type>
```

**set metric-type <metric-type>****Description:** Type of metric for destination routing protocol**Syntax:**

|               |               |
|---------------|---------------|
| <metric-type> | <metric-type> |
|---------------|---------------|

**Command Mode:** match prefix-list : Match entries of a prefix-list**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]
(config-leaf-vrf-route-map-match)# set metric-type <metric-type>
```

**set metric-type <metric-type>****Description:** Type of metric for destination routing protocol**Syntax:**

|               |               |
|---------------|---------------|
| <metric-type> | <metric-type> |
|---------------|---------------|

**Command Mode:** match route group : Route group**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]
(config-leaf-vrf-route-map-match)# set metric-type <metric-type>
```

**set metric-type <metric-type>****Description:** Type of metric for destination routing protocol**Syntax:**

|               |               |
|---------------|---------------|
| <metric-type> | <metric-type> |
|---------------|---------------|

**Command Mode:** template route-profile : Configure route-profile template under tenant for BGP dampening and route redistribution**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# template route-profile <WORD> tenant <WORD>
(config-leaf-template-route-profile)# set metric-type <metric-type>
```

**set metric-type <metric-type>****Description:** Type of metric for destination routing protocol**Syntax:**

|               |               |
|---------------|---------------|
| <metric-type> | <metric-type> |
|---------------|---------------|

**Command Mode:** template route-profile : Configure route-profile template under VRF/L3Out for bridge-domain export**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# vrf context tenant <WORD> vrf <WORD> [l3out <l3out>]
(config-leaf-vrf)# template route-profile <WORD> <WORD> <NUMBER>
(config-leaf-vrf-template-route-profile)# set metric-type <metric-type>
```

**set metric-type <metric-type>****Description:** Type of metric for destination routing protocol**Syntax:**

|               |               |
|---------------|---------------|
| <metric-type> | <metric-type> |
|---------------|---------------|

**Command Mode:** match bridge-domain : Match subnets of a bridge-domain**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>]
(config-leaf-vrf-route-map-match)# set metric-type <metric-type>
```

**set metric-type <metric-type>****Description:** Type of metric for destination routing protocol**Syntax:**

|               |               |
|---------------|---------------|
| <metric-type> | <metric-type> |
|---------------|---------------|

**Command Mode:** match prefix-list : Match entries of a prefix-list**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]
(config-leaf-vrf-route-map-match)# set metric-type <metric-type>
```

**set metric-type <metric-type>****Description:** Type of metric for destination routing protocol**Syntax:**

|               |               |
|---------------|---------------|
| <metric-type> | <metric-type> |
|---------------|---------------|

**Command Mode:** match route group : Route group**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]
(config-leaf-vrf-route-map-match)# set metric-type <metric-type>
```

# set metric

## set metric <NUMBER>

**Description:** Set metric for destination routing protocol

**Syntax:**

|         |  |
|---------|--|
| <0-255> | Metric value. Number range from=0 to=255 |
|---------|--|

**Command Mode:** route-profile : Configure route-profile

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# vrf context <WORD>
(config-tenant-vrf)# route-profile <WORD>
(config-tenant-vrf-route-profile)# set metric <NUMBER>
```

## set metric <NUMBER>

**Description:** Set metric for destination routing protocol

**Syntax:**

|         |  |
|---------|--|
| <0-255> | Metric value. Number range from=0 to=255 |
|---------|--|

**Command Mode:** template route-profile : Configure route-profile template under tenant for BGP dampening and route redistribution

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template route-profile <WORD> tenant <WORD>
(config-leaf-template-route-profile)# set metric <NUMBER>
```

## set metric <NUMBER>

**Description:** Set metric for destination routing protocol

**Syntax:**

|         |  |
|---------|--|
| <0-255> | Metric value. Number range from=0 to=255 |
|---------|--|

**Command Mode:** template route-profile : Configure route-profile template under VRF/L3Out for bridge-domain export

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
```

```
(config-leaf)# vrf context tenant <WORD> vrf <WORD> [l3out <l3out>]
(config-leaf-vrf)# template route-profile <WORD> <WORD> <NUMBER>
(config-leaf-vrf-template-route-profile)# set metric <NUMBER>
```

**set metric <NUMBER>****Description:** Set metric for destination routing protocol**Syntax:**

|         |  |
|---------|--|
| <0-255> | Metric value. Number range from=0 to=255 |
|---------|--|

**Command Mode:** match bridge-domain : Match subnets of a bridge-domain**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>]
(config-leaf-vrf-route-map-match)# set metric <NUMBER>
```

**set metric <NUMBER>****Description:** Set metric for destination routing protocol**Syntax:**

|         |  |
|---------|--|
| <0-255> | Metric value. Number range from=0 to=255 |
|---------|--|

**Command Mode:** match prefix-list : Match entries of a prefix-list**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]
(config-leaf-vrf-route-map-match)# set metric <NUMBER>
```

**set metric <NUMBER>****Description:** Set metric for destination routing protocol**Syntax:**

|         |  |
|---------|--|
| <0-255> | Metric value. Number range from=0 to=255 |
|---------|--|

**Command Mode:** match route group : Route group**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]
(config-leaf-vrf-route-map-match)# set metric <NUMBER>
```

**set metric <NUMBER>****Description:** Set metric for destination routing protocol**Syntax:**

|         |  |
|---------|--|
| <0-255> | Metric value. Number range from=0 to=255 |
|---------|--|

**Command Mode:** template route-profile : Configure route-profile template under tenant for BGP dampening and route redistribution**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# template route-profile <WORD> tenant <WORD>
(config-leaf-template-route-profile)# set metric <NUMBER>
```

**set metric <NUMBER>****Description:** Set metric for destination routing protocol**Syntax:**

|         |  |
|---------|--|
| <0-255> | Metric value. Number range from=0 to=255 |
|---------|--|

**Command Mode:** template route-profile : Configure route-profile template under VRF/L3Out for bridge-domain export**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# vrf context tenant <WORD> vrf <WORD> [l3out <l3out>]
(config-leaf-vrf)# template route-profile <WORD> <WORD> <NUMBER>
(config-leaf-vrf-template-route-profile)# set metric <NUMBER>
```

**set metric <NUMBER>****Description:** Set metric for destination routing protocol**Syntax:**

|         |  |
|---------|--|
| <0-255> | Metric value. Number range from=0 to=255 |
|---------|--|

**Command Mode:** match bridge-domain : Match subnets of a bridge-domain**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>]
(config-leaf-vrf-route-map-match)# set metric <NUMBER>
```

**set metric <NUMBER>****Description:** Set metric for destination routing protocol**Syntax:**

|         |  |
|---------|--|
| <0-255> | Metric value. Number range from=0 to=255 |
|---------|--|

**Command Mode:** match prefix-list : Match entries of a prefix-list**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]
(config-leaf-vrf-route-map-match)# set metric <NUMBER>
```

**set metric <NUMBER>****Description:** Set metric for destination routing protocol**Syntax:**

|         |  |
|---------|--|
| <0-255> | Metric value. Number range from=0 to=255 |
|---------|--|

**Command Mode:** match route group : Route group**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]
(config-leaf-vrf-route-map-match)# set metric <NUMBER>
```

# set mode

**set mode <WORD>**

**Description:** Policer Mode

**Syntax:**

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

**Command Mode:** policy-map type data-plane : Create a policymap of DataPlane type to police/reclassify the traffic

**Command Path:**

```
# configure [['terminal', 't']]
(config)# policy-map type data-plane <WORD>
(config-pmap-dpp)# set mode <WORD>
```

**set mode <WORD>**

**Description:** Policer Mode

**Syntax:**

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

**Command Mode:** policy-map type data-plane : data-plane policy type

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# policy-map type data-plane <WORD>
(config-tenant-pmap-dpp)# set mode <WORD>
```

# set next-hop

## set next-hop <IPv4 or IPv6 address>

**Description:** Set next hop for destination routing protocol

**Syntax:**

|                             |                  |
|-----------------------------|------------------|
| <i>IPv4 or IPv6 address</i> | Next hop address |
|-----------------------------|------------------|

**Command Mode:** route-profile : Configure route-profile

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# vrf context <WORD>
(config-tenant-vrf)# route-profile <WORD>
(config-tenant-vrf-route-profile)# set next-hop <IPv4 or IPv6 address>
```

## set next-hop <IPv4 or IPv6 address>

**Description:** Set next hop address

**Syntax:**

|                             |                  |
|-----------------------------|------------------|
| <i>IPv4 or IPv6 address</i> | Next hop address |
|-----------------------------|------------------|

**Command Mode:** template route-profile : Configure route-profile template under tenant for BGP dampening and route redistribution

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template route-profile <WORD> tenant <WORD>
(config-leaf-template-route-profile)# set next-hop <IPv4 or IPv6 address>
```

## set next-hop <IPv4 or IPv6 address>

**Description:** Set next hop address

**Syntax:**

|                             |                  |
|-----------------------------|------------------|
| <i>IPv4 or IPv6 address</i> | Next hop address |
|-----------------------------|------------------|

**Command Mode:** template route-profile : Configure route-profile template under VRF/L3Out for bridge-domain export

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
```

```
(config-leaf)# vrf context tenant <WORD> vrf <WORD> [l3out <l3out>]
(config-leaf-vrf)# template route-profile <WORD> <WORD> <NUMBER>
(config-leaf-vrf-template-route-profile)# set next-hop <IPv4 or IPv6 address>
```

**set next-hop <IPv4 or IPv6 address>****Description:** Set next hop address**Syntax:**

|                             |                  |
|-----------------------------|------------------|
| <i>IPv4 or IPv6 address</i> | Next hop address |
|-----------------------------|------------------|

**Command Mode:** match bridge-domain : Match subnets of a bridge-domain**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>]
(config-leaf-vrf-route-map-match)# set next-hop <IPv4 or IPv6 address>
```

**set next-hop <IPv4 or IPv6 address>****Description:** Set next hop address**Syntax:**

|                             |                  |
|-----------------------------|------------------|
| <i>IPv4 or IPv6 address</i> | Next hop address |
|-----------------------------|------------------|

**Command Mode:** match prefix-list : Match entries of a prefix-list**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]
(config-leaf-vrf-route-map-match)# set next-hop <IPv4 or IPv6 address>
```

**set next-hop <IPv4 or IPv6 address>****Description:** Set next hop address**Syntax:**

|                             |                  |
|-----------------------------|------------------|
| <i>IPv4 or IPv6 address</i> | Next hop address |
|-----------------------------|------------------|

**Command Mode:** match route group : Route group**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]
(config-leaf-vrf-route-map-match)# set next-hop <IPv4 or IPv6 address>
```

**set next-hop <IPv4 or IPv6 address>****Description:** Set next hop address**Syntax:**

|                             |                  |
|-----------------------------|------------------|
| <i>IPv4 or IPv6 address</i> | Next hop address |
|-----------------------------|------------------|

**Command Mode:** template route-profile : Configure route-profile template under tenant for BGP dampening and route redistribution**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# template route-profile <WORD> tenant <WORD>
(config-leaf-template-route-profile)# set next-hop <IPv4 or IPv6 address>
```

**set next-hop <IPv4 or IPv6 address>****Description:** Set next hop address**Syntax:**

|                             |                  |
|-----------------------------|------------------|
| <i>IPv4 or IPv6 address</i> | Next hop address |
|-----------------------------|------------------|

**Command Mode:** template route-profile : Configure route-profile template under VRF/L3Out for bridge-domain export**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# vrf context tenant <WORD> vrf <WORD> [l3out <l3out>]
(config-leaf-vrf)# template route-profile <WORD> <WORD> <NUMBER>
(config-leaf-vrf-template-route-profile)# set next-hop <IPv4 or IPv6 address>
```

**set next-hop <IPv4 or IPv6 address>****Description:** Set next hop address**Syntax:**

|                             |                  |
|-----------------------------|------------------|
| <i>IPv4 or IPv6 address</i> | Next hop address |
|-----------------------------|------------------|

**Command Mode:** match bridge-domain : Match subnets of a bridge-domain**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>]
(config-leaf-vrf-route-map-match)# set next-hop <IPv4 or IPv6 address>
```

### set next-hop <IPv4 or IPv6 address>

**Description:** Set next hop address

#### Syntax:

|                             |                  |
|-----------------------------|------------------|
| <i>IPv4 or IPv6 address</i> | Next hop address |
|-----------------------------|------------------|

**Command Mode:** match prefix-list : Match entries of a prefix-list

#### 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]
(config-leaf-vrf-route-map-match)# set next-hop <IPv4 or IPv6 address>
```

### set next-hop <IPv4 or IPv6 address>

**Description:** Set next hop address

#### Syntax:

|                             |                  |
|-----------------------------|------------------|
| <i>IPv4 or IPv6 address</i> | Next hop address |
|-----------------------------|------------------|

**Command Mode:** match route group : Route group

#### 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]
(config-leaf-vrf-route-map-match)# set next-hop <IPv4 or IPv6 address>
```

# set pir

**set pir <0-4398046510080> UNIT**

**Description:** Peak Rate

**Syntax:**

|                   |           |
|-------------------|-----------|
| <0-4398046510080> | Peak Rate |
| UNIT              | Pir Unit  |

**Command Mode:** policy-map type data-plane : Create a policymap of DataPlane type to police/reclassify the traffic

**Command Path:**

```
# configure [['terminal', 't']]
(config)# policy-map type data-plane <WORD>
(config-pmap-dpp)# set pir <0-4398046510080> UNIT
```

**set pir <0-4398046510080> UNIT**

**Description:** Peak Rate

**Syntax:**

|                   |           |
|-------------------|-----------|
| <0-4398046510080> | Peak Rate |
| UNIT              | Pir Unit  |

**Command Mode:** policy-map type data-plane : data-plane policy type

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# policy-map type data-plane <WORD>
(config-tenant-pmap-dpp)# set pir <0-4398046510080> UNIT
```



# set qos-class

## set qos-class <WORD>

**Description:** Class of QOS to specify

**Syntax:**

|             |           |
|-------------|-----------|
| <i>WORD</i> | Qos Level |
|-------------|-----------|

**Command Mode:** contract : Configure binary contracts between Application EPGs

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# contract <WORD> [type <type>]
(config-tenant-contract)# set qos-class <WORD>
```

## set qos-class <WORD> WORD

**Description:** Class of QOS to specify

**Syntax:**

|             |                      |
|-------------|----------------------|
| <i>WORD</i> | Qos Level            |
| <i>WORD</i> | Target QOS Direction |

**Command Mode:** subject : Configuration a subject on the contract

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# contract <WORD> [type <type>]
(config-tenant-contract)# subject <WORD>
(config-tenant-contract-subj)# set qos-class <WORD> WORD
```

## set qos-class <WORD>

**Description:** Specify the QOS level for the EPG

**Syntax:**

|             |           |
|-------------|-----------|
| <i>WORD</i> | Qos Level |
|-------------|-----------|

**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)# set qos-class <WORD>
```

# set reauth-period

**set reauth-period <30-2147483>**

**Description:** Set reauth period

**Syntax:**

|              |                    |
|--------------|--------------------|
| <30-2147483> | Max reauth request |
|--------------|--------------------|

**Command Mode:** switchport port-authentication : Port authentication configuration

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template policy-group <WORD>
(config-pol-grp-if)# switchport port-authentication <WORD>
(config-port-authentication)# set reauth-period <30-2147483>
```

# set reauth

**set reauth**

**Description:** Enable reauth request

**Command Mode:** switchport port-authentication : Port authentication configuration

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template policy-group <WORD>
(config-pol-grp-if)# switchport port-authentication <WORD>
(config-port-authentication)# set reauth
```

## set server-timeout

**set server-timeout** <4-65535>

**Description:** Set server timeout

**Syntax:**

|           |                    |
|-----------|--------------------|
| <4-65535> | Max reauth request |
|-----------|--------------------|

**Command Mode:** switchport port-authentication : Port authentication configuration

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template policy-group <WORD>
(config-pol-grp-if)# switchport port-authentication <WORD>
(config-port-authentication)# set server-timeout <4-65535>
```

# set sharing-mode

**set sharing-mode <WORD>**

**Description:** Policer Sharing Mode

**Syntax:**

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

**Command Mode:** policy-map type data-plane : Create a policymap of DataPlane type to police/reclassify the traffic

**Command Path:**

```
# configure [['terminal', 't']]
(config)# policy-map type data-plane <WORD>
(config-pmap-dpp)# set sharing-mode <WORD>
```

**set sharing-mode <WORD>**

**Description:** Policer Sharing Mode

**Syntax:**

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

**Command Mode:** policy-map type data-plane : data-plane policy type

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# policy-map type data-plane <WORD>
(config-tenant-pmap-dpp)# set sharing-mode <WORD>
```

# set supp-timeout

**set supp-timeout <4-65535>**

**Description:** Set supplicant timeout

**Syntax:**

|           |                    |
|-----------|--------------------|
| <4-65535> | Max reauth request |
|-----------|--------------------|

**Command Mode:** switchport port-authentication : Port authentication configuration

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template policy-group <WORD>
(config-pol-grp-if)# switchport port-authentication <WORD>
(config-port-authentication)# set supp-timeout <4-65535>
```

# set tag

## set tag <NUMBER>

**Description:** Tag value for destination routing protocol

**Syntax:**

|                |  |
|----------------|--|
| <0-4294967295> | Tag value. Number range from=0 to=4294967295 |
|----------------|--|

**Command Mode:** route-profile : Configure route-profile

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# vrf context <WORD>
(config-tenant-vrf)# route-profile <WORD>
(config-tenant-vrf-route-profile)# set tag <NUMBER>
```

## set tag <NUMBER>

**Description:** Tag value for destination routing protocol

**Syntax:**

|                |  |
|----------------|--|
| <0-4294967295> | Tag value. Number range from=0 to=4294967295 |
|----------------|--|

**Command Mode:** template route-profile : Configure route-profile template under tenant for BGP dampening and route redistribution

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template route-profile <WORD> tenant <WORD>
(config-leaf-template-route-profile)# set tag <NUMBER>
```

## set tag <NUMBER>

**Description:** Tag value for destination routing protocol

**Syntax:**

|                |  |
|----------------|--|
| <0-4294967295> | Tag value. Number range from=0 to=4294967295 |
|----------------|--|

**Command Mode:** template route-profile : Configure route-profile template under VRF/L3Out for bridge-domain export

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
```



```
(config-leaf)# vrf context tenant <WORD> vrf <WORD> [l3out <l3out>]
(config-leaf-vrf)# template route-profile <WORD> <WORD> <NUMBER>
(config-leaf-vrf-template-route-profile)# set tag <NUMBER>
```

**set tag <NUMBER>****Description:** Tag value for destination routing protocol**Syntax:**

|                |  |
|----------------|--|
| <0-4294967295> | Tag value. Number range from=0 to=4294967295 |
|----------------|--|

**Command Mode:** match bridge-domain : Match subnets of a bridge-domain**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>]
(config-leaf-vrf-route-map-match)# set tag <NUMBER>
```

**set tag <NUMBER>****Description:** Tag value for destination routing protocol**Syntax:**

|                |  |
|----------------|--|
| <0-4294967295> | Tag value. Number range from=0 to=4294967295 |
|----------------|--|

**Command Mode:** match prefix-list : Match entries of a prefix-list**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]
(config-leaf-vrf-route-map-match)# set tag <NUMBER>
```

**set tag <NUMBER>****Description:** Tag value for destination routing protocol**Syntax:**

|                |  |
|----------------|--|
| <0-4294967295> | Tag value. Number range from=0 to=4294967295 |
|----------------|--|

**Command Mode:** match route group : Route group**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]
(config-leaf-vrf-route-map-match)# set tag <NUMBER>
```

**set tag <NUMBER>****Description:** Tag value for destination routing protocol**Syntax:**

|                |  |
|----------------|--|
| <0-4294967295> | Tag value. Number range from=0 to=4294967295 |
|----------------|--|

**Command Mode:** template route-profile : Configure route-profile template under tenant for BGP dampening and route redistribution**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# template route-profile <WORD> tenant <WORD>
(config-leaf-template-route-profile)# set tag <NUMBER>
```

**set tag <NUMBER>****Description:** Tag value for destination routing protocol**Syntax:**

|                |  |
|----------------|--|
| <0-4294967295> | Tag value. Number range from=0 to=4294967295 |
|----------------|--|

**Command Mode:** template route-profile : Configure route-profile template under VRF/L3Out for bridge-domain export**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# vrf context tenant <WORD> vrf <WORD> [l3out <l3out>]
(config-leaf-vrf)# template route-profile <WORD> <WORD> <NUMBER>
(config-leaf-vrf-template-route-profile)# set tag <NUMBER>
```

**set tag <NUMBER>****Description:** Tag value for destination routing protocol**Syntax:**

|                |  |
|----------------|--|
| <0-4294967295> | Tag value. Number range from=0 to=4294967295 |
|----------------|--|

**Command Mode:** match bridge-domain : Match subnets of a bridge-domain**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>]
(config-leaf-vrf-route-map-match)# set tag <NUMBER>
```

**set tag <NUMBER>****Description:** Tag value for destination routing protocol**Syntax:**

|                |  |
|----------------|--|
| <0-4294967295> | Tag value. Number range from=0 to=4294967295 |
|----------------|--|

**Command Mode:** match prefix-list : Match entries of a prefix-list**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]
(config-leaf-vrf-route-map-match)# set tag <NUMBER>
```

**set tag <NUMBER>****Description:** Tag value for destination routing protocol**Syntax:**

|                |  |
|----------------|--|
| <0-4294967295> | Tag value. Number range from=0 to=4294967295 |
|----------------|--|

**Command Mode:** match route group : Route group**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]
(config-leaf-vrf-route-map-match)# set tag <NUMBER>
```

## set target-dscp

### set target-dscp <WORD>

**Description:** class of target dscp to specify

**Syntax:**

|             |             |
|-------------|-------------|
| <i>WORD</i> | Target dscp |
|-------------|-------------|

**Command Mode:** contract : Configure binary contracts between Application EPGs

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# contract <WORD> [type <type>]
(config-tenant-contract)# set target-dscp <WORD>
```

### set target-dscp <WORD> WORD

**Description:** class of target dscp to specify

**Syntax:**

|             |                       |
|-------------|-----------------------|
| <i>WORD</i> | Target dscp           |
| <i>WORD</i> | Target DSCP Direction |

**Command Mode:** subject : Configuration a subject on the contract

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# contract <WORD> [type <type>]
(config-tenant-contract)# subject <WORD>
(config-tenant-contract-subj)# set target-dscp <WORD> WORD
```

## set tx-period

**set tx-period** <4-65535>

**Description:** Set Tx period

**Syntax:**

|           |                    |
|-----------|--------------------|
| <4-65535> | Max reauth request |
|-----------|--------------------|

**Command Mode:** switchport port-authentication : Port authentication configuration

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template policy-group <WORD>
(config-pol-grp-if)# switchport port-authentication <WORD>
(config-port-authentication)# set tx-period <4-65535>
```

# set type

**set type <WORD>**

**Description:** Policer type

**Syntax:**

|             |              |
|-------------|--------------|
| <i>WORD</i> | Policer Type |
|-------------|--------------|

**Command Mode:** policy-map type data-plane : Create a policymap of DataPlane type to police/reclassify the traffic

**Command Path:**

```
# configure [['terminal', 't']]
(config)# policy-map type data-plane <WORD>
(config-pmap-dpp)# set type <WORD>
```

**set type <WORD>**

**Description:** Policer type

**Syntax:**

|             |              |
|-------------|--------------|
| <i>WORD</i> | Policer Type |
|-------------|--------------|

**Command Mode:** policy-map type data-plane : data-plane policy type

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# policy-map type data-plane <WORD>
(config-tenant-pmap-dpp)# set type <WORD>
```

# set violate-cos-transmit

## set violate-cos-transmit <0-6>

**Description:** Violate Policer Mark Cos

**Syntax:**

|       |                          |
|-------|--------------------------|
| <0-6> | Violate Policer Mark Cos |
|-------|--------------------------|

**Command Mode:** policy-map type data-plane : Create a policymap of DataPlane type to police/reclassify the traffic

**Command Path:**

```
# configure [['terminal', 't']]
(config)# policy-map type data-plane <WORD>
(config-pmap-dpp)# set violate-cos-transmit <0-6>
```

## set violate-cos-transmit <0-6>

**Description:** Violate Policer Mark Cos

**Syntax:**

|       |                          |
|-------|--------------------------|
| <0-6> | Violate Policer Mark Cos |
|-------|--------------------------|

**Command Mode:** policy-map type data-plane : data-plane policy type

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# policy-map type data-plane <WORD>
(config-tenant-pmap-dpp)# set violate-cos-transmit <0-6>
```

# set violate-dscp-transmit

**set violate-dscp-transmit <0-63>**

**Description:** Violate Policer Mark DSCP

**Syntax:**

|        |                           |
|--------|---------------------------|
| <0-63> | Violate Policer Mark DSCP |
|--------|---------------------------|

**Command Mode:** policy-map type data-plane : Create a policymap of DataPlane type to police/reclassify the traffic

**Command Path:**

```
# configure [['terminal', 't']]
(config)# policy-map type data-plane <WORD>
(config-pmap-dpp)# set violate-dscp-transmit <0-63>
```

**set violate-dscp-transmit <0-63>**

**Description:** Violate Policer Mark DSCP

**Syntax:**

|        |                           |
|--------|---------------------------|
| <0-63> | Violate Policer Mark DSCP |
|--------|---------------------------|

**Command Mode:** policy-map type data-plane : data-plane policy type

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# policy-map type data-plane <WORD>
(config-tenant-pmap-dpp)# set violate-dscp-transmit <0-63>
```



# set violate

**set violate <WORD>**

**Description:** Violate Policer Action

**Syntax:**

|             |                        |
|-------------|------------------------|
| <i>WORD</i> | Violate Policer Action |
|-------------|------------------------|

**Command Mode:** policy-map type data-plane : Create a policymap of DataPlane type to police/reclassify the traffic

**Command Path:**

```
# configure [['terminal', 't']]
(config)# policy-map type data-plane <WORD>
(config-pmap-dpp)# set violate <WORD>
```

**set violate <WORD>**

**Description:** Violate Policer Action

**Syntax:**

|             |                        |
|-------------|------------------------|
| <i>WORD</i> | Violate Policer Action |
|-------------|------------------------|

**Command Mode:** policy-map type data-plane : data-plane policy type

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# policy-map type data-plane <WORD>
(config-tenant-pmap-dpp)# set violate <WORD>
```

# set weight

## set weight <NUMBER>

**Description:** Weight value for destination routing protocol

**Syntax:**

|           |  |
|-----------|--|
| <0-65535> | Weight value. Number range from=0 to=65535 |
|-----------|--|

**Command Mode:** route-profile : Configure route-profile

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# vrf context <WORD>
(config-tenant-vrf)# route-profile <WORD>
(config-tenant-vrf-route-profile)# set weight <NUMBER>
```

## set weight <NUMBER>

**Description:** Weight value for destination routing protocol

**Syntax:**

|           |  |
|-----------|--|
| <0-65535> | Weight value. Number range from=0 to=65535 |
|-----------|--|

**Command Mode:** template route-profile : Configure route-profile template under tenant for BGP dampening and route redistribution

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template route-profile <WORD> tenant <WORD>
(config-leaf-template-route-profile)# set weight <NUMBER>
```

## set weight <NUMBER>

**Description:** Weight value for destination routing protocol

**Syntax:**

|           |  |
|-----------|--|
| <0-65535> | Weight value. Number range from=0 to=65535 |
|-----------|--|

**Command Mode:** template route-profile : Configure route-profile template under VRF/L3Out for bridge-domain export

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
```

```
(config-leaf)# vrf context tenant <WORD> vrf <WORD> [l3out <l3out>]
(config-leaf-vrf)# template route-profile <WORD> <WORD> <NUMBER>
(config-leaf-vrf-template-route-profile)# set weight <NUMBER>
```

**set weight <NUMBER>****Description:** Weight value for destination routing protocol**Syntax:**

|           |  |
|-----------|--|
| <0-65535> | Weight value. Number range from=0 to=65535 |
|-----------|--|

**Command Mode:** match bridge-domain : Match subnets of a bridge-domain**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>]
(config-leaf-vrf-route-map-match)# set weight <NUMBER>
```

**set weight <NUMBER>****Description:** Weight value for destination routing protocol**Syntax:**

|           |  |
|-----------|--|
| <0-65535> | Weight value. Number range from=0 to=65535 |
|-----------|--|

**Command Mode:** match prefix-list : Match entries of a prefix-list**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]
(config-leaf-vrf-route-map-match)# set weight <NUMBER>
```

**set weight <NUMBER>****Description:** Weight value for destination routing protocol**Syntax:**

|           |  |
|-----------|--|
| <0-65535> | Weight value. Number range from=0 to=65535 |
|-----------|--|

**Command Mode:** match route group : Route group**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]
(config-leaf-vrf-route-map-match)# set weight <NUMBER>
```

**set weight <NUMBER>****Description:** Weight value for destination routing protocol**Syntax:**

|           |  |
|-----------|--|
| <0-65535> | Weight value. Number range from=0 to=65535 |
|-----------|--|

**Command Mode:** template route-profile : Configure route-profile template under tenant for BGP dampening and route redistribution**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# template route-profile <WORD> tenant <WORD>
(config-leaf-template-route-profile)# set weight <NUMBER>
```

**set weight <NUMBER>****Description:** Weight value for destination routing protocol**Syntax:**

|           |  |
|-----------|--|
| <0-65535> | Weight value. Number range from=0 to=65535 |
|-----------|--|

**Command Mode:** template route-profile : Configure route-profile template under VRF/L3Out for bridge-domain export**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# vrf context tenant <WORD> vrf <WORD> [l3out <l3out>]
(config-leaf-vrf)# template route-profile <WORD> <WORD> <NUMBER>
(config-leaf-vrf-template-route-profile)# set weight <NUMBER>
```

**set weight <NUMBER>****Description:** Weight value for destination routing protocol**Syntax:**

|           |  |
|-----------|--|
| <0-65535> | Weight value. Number range from=0 to=65535 |
|-----------|--|

**Command Mode:** match bridge-domain : Match subnets of a bridge-domain**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>]
(config-leaf-vrf-route-map-match)# set weight <NUMBER>
```

**set weight <NUMBER>****Description:** Weight value for destination routing protocol**Syntax:**

|           |  |
|-----------|--|
| <0-65535> | Weight value. Number range from=0 to=65535 |
|-----------|--|

**Command Mode:** match prefix-list : Match entries of a prefix-list**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]
(config-leaf-vrf-route-map-match)# set weight <NUMBER>
```

**set weight <NUMBER>****Description:** Weight value for destination routing protocol**Syntax:**

|           |  |
|-----------|--|
| <0-65535> | Weight value. Number range from=0 to=65535 |
|-----------|--|

**Command Mode:** match route group : Route group**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]
(config-leaf-vrf-route-map-match)# set weight <NUMBER>
```

# shellinabox

## shellinabox

**Description:** Configures the communication policy of the SHELLINABOX feature

**Command Mode:** comm-policy : Configure any communication policy, ssh/telnet/shellinabox/http/https

### Usage:

In the APIC GUI, the SHELLINABOX feature allows you to open a pop-up SSH session to a fabric switch by right-clicking the icon of the switch. To enable or disable this feature, use the **shellinabox** command to enter the SHELLINABOX communication policy group, then use the **[no] admin-state-enable** command.

### Command Path:

```
# configure [['terminal', 't']]
(config)# comm-policy <WORD>
(config-comm-policy)# shellinabox
```

# show aaa authentication

**show aaa authentication**

**Description:** Show AAA Authentication information

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show aaa authentication
```

# show aaa groups

**show aaa groups**

**Description:** Show AAA group information

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show aaa groups
```



# show aaa sessions

**show aaa sessions**

**Description:** Active User Sessions

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show aaa sessions
```

# show access-list

**show access-list WORD**

**Description:** Show Access-list Information

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the Contract to filter on (Max Size 64) |
|-------------|---|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show access-list WORD
```

# show accounting log

## **show accounting log**

**Description:** CLI configuration command logs

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show accounting log
```

### **NOTE:**

This command displays only those changes made using the command line interface (CLI). It does not display changes made using the GUI or the API. To view all changes made in the Management Information Tree, use the **show audit detail** command.

# show acllog deny l2 flow

**show acllog deny l2 flow**

**Description:** l3 flow information

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show acllog deny l2 flow
```

# show acllog deny l2 flow tenant vrf

**show acllog deny l2 flow tenant** <WORD> vrf [vlan <NUMBER>] [srcIntf <srcintf>] <WORD>

**Description:** tenant vrf information

**Syntax:**

|                |  |
|----------------|--|
| <i>WORD</i>    | Name of the tenant to filter on (Max Size 63)              |
| <1-4094>       | (Optional) Encapsulation Vlan. Number range from=1 to=4094 |
| <i>srcintf</i> | (Optional) source Interface                                |
| <i>WORD</i>    | Name of the VRF to filter on (Max Size 64)                 |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show acllog deny l2 flow tenant <WORD> vrf [vlan <NUMBER>] [srcIntf <srcintf>] <WORD>
```

# show acllog deny l2 flow tenant vrf detail

```
show acllog deny l2 flow tenant <WORD> vrf [vlan <NUMBER>] [srcIntf <srcintf>] <WORD> detail [srcpctag
<WORD>] [dstpctag <WORD>] [srcEpgName <WORD>] [dstEpgName <WORD>] [srcmac <E.E.E
EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE >] [dstmac <E.E.E EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE
EEEE.EEEE.EEEE >]
```

**Description:** detail information

**Syntax:**

|   |  |
|---|--|
| <i>WORD</i>   | Name of the tenant to filter on (Max Size 63)  |
| <1-4094>  | (Optional) Encapsulation Vlan. Number range from=1 to=4094   |
| <i>srcintf</i>  | (Optional) source Interface  |
| <i>WORD</i>   | Name of the VRF to filter on (Max Size 64)   |
| <i>WORD</i>   | (Optional) PC Tag (Max Size None)  |
| <i>WORD</i>   | (Optional) PC Tag (Max Size None)  |
| <i>WORD</i>   | (Optional) Epg Name (Max Size None)  |
| <i>WORD</i>   | (Optional) Epg Name (Max Size None)  |
| <i>E.E.E EE-EE-EE-EE-EE-EE<br/>EE:EE:EE:EE:EE:EE<br/>EEEE.EEEE.EEEE</i> | (Optional) MAC address (Option 1) MAC address (Option 2) MAC address (Option 3) MAC address (Option 4) |
| <i>E.E.E EE-EE-EE-EE-EE-EE<br/>EE:EE:EE:EE:EE:EE<br/>EEEE.EEEE.EEEE</i> | (Optional) MAC address (Option 1) MAC address (Option 2) MAC address (Option 3) MAC address (Option 4) |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show acllog deny l2 flow tenant <WORD> vrf [vlan <NUMBER>] [srcIntf <srcintf>] <WORD>
detail [srcpctag <WORD>] [dstpctag <WORD>] [srcEpgName <WORD>] [dstEpgName <WORD>] [srcmac
<E.E.E EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE >] [dstmac <E.E.E EE-EE-EE-EE-EE-EE
EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE >]
```

# show acllog deny l2 pkt

**show acllog deny l2 pkt**

**Description:** Pkt command

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show acllog deny l2 pkt
```

# show acllog deny l2 pkt tenant vrf

**show acllog deny l2 pkt tenant <WORD> vrf <WORD> [start-time time-stamp <YYYY-MM-DDTHR:MIN:SEC>] [end-time time-stamp <YYYY-MM-DDTHR:MIN:SEC>] [vlan <NUMBER>] [srcintf <srcintf>] [pktlen <NUMBER>]**

**Description:** Vrf Name

**Syntax:**

|  |  |
|--|--|
| <i>WORD</i>                                  | Name of the tenant to filter on (Max Size 63)              |
| <i>WORD</i>                                  | Name of the vrf to filter on (Max Size 64)                 |
| <i>time-stamp</i><br><YYYY-MM-DDTHR:MIN:SEC> | (Optional) Event activity in time interval                 |
| <i>time-stamp</i><br><YYYY-MM-DDTHR:MIN:SEC> | (Optional) Event activity in time interval                 |
| <1-4094>                                     | (Optional) Encapsulation Vlan. Number range from=1 to=4094 |
| <i>srcintf</i>                               | (Optional) Source Interface                                |
| <1-65535>                                    | (Optional) packet length. Number range from=1 to=65535     |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show acllog deny l2 pkt tenant <WORD> vrf <WORD> [start-time time-stamp
<YYYY-MM-DDTHR:MIN:SEC>] [end-time time-stamp <YYYY-MM-DDTHR:MIN:SEC>] [vlan <NUMBER>]
[srcintf <srcintf>] [pktlen <NUMBER>]
```



# show aclog deny l2 pkt tenant vrf detail

```
show aclog deny l2 pkt tenant <WORD> vrf <WORD> [start-time time-stamp <YYYY-MM-DDTHR:MIN:SEC>]
[end-time time-stamp <YYYY-MM-DDTHR:MIN:SEC>] [vlan <NUMBER>] [srcintf <srcintf>] [pktlen <NUMBER>]
detail [srcpctag <WORD>] [dstpctag <WORD>] [srcEpgName <WORD>] [dstEpgName <WORD>] [srcmac
<E.E.E EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE >] [dstmac <E.E.E EE-EE-EE-EE-EE-EE
EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE >]
```

**Description:** Detail information

**Syntax:**

|   |  |
|---|--|
| <i>WORD</i>   | Name of the tenant to filter on (Max Size 63)  |
| <i>WORD</i>   | Name of the vrf to filter on (Max Size 64)   |
| <i>time-stamp</i><br><YYYY-MM-DDTHR:MIN:SEC>  | (Optional) Event activity in time interval   |
| <i>time-stamp</i><br><YYYY-MM-DDTHR:MIN:SEC>  | (Optional) Event activity in time interval   |
| <1-4094>  | (Optional) Encapsulation Vlan. Number range from=1 to=4094   |
| <i>srcintf</i>  | (Optional) Source Interface  |
| <1-65535>   | (Optional) packet length. Number range from=1 to=65535   |
| <i>WORD</i>   | (Optional) PC Tag (Max Size None)  |
| <i>WORD</i>   | (Optional) PC Tag (Max Size None)  |
| <i>WORD</i>   | (Optional) Epg Name (Max Size None)  |
| <i>WORD</i>   | (Optional) Epg Name (Max Size None)  |
| <i>E.E.E EE-EE-EE-EE-EE-EE</i><br><i>EE:EE:EE:EE:EE:EE</i><br><i>EEEE.EEEE.EEEE</i> | (Optional) MAC address (Option 1) MAC address (Option 2) MAC address (Option 3) MAC address (Option 4) |
| <i>E.E.E EE-EE-EE-EE-EE-EE</i><br><i>EE:EE:EE:EE:EE:EE</i><br><i>EEEE.EEEE.EEEE</i> | (Optional) MAC address (Option 1) MAC address (Option 2) MAC address (Option 3) MAC address (Option 4) |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show aclog deny l2 pkt tenant <WORD> vrf <WORD> [start-time time-stamp
<YYYY-MM-DDTHR:MIN:SEC>] [end-time time-stamp <YYYY-MM-DDTHR:MIN:SEC>] [vlan <NUMBER>]
[srcintf <srcintf>] [pktlen <NUMBER>] detail [srcpctag <WORD>] [dstpctag <WORD>] [srcEpgName
<WORD>] [dstEpgName <WORD>] [srcmac <E.E.E EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE
>] [dstmac <E.E.E EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE >]
```

# show acllog deny l3 flow

**show acllog deny l3 flow**

**Description:** l3 flow information

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show acllog deny l3 flow
```

# show acllog deny I3 flow tenant vrf

**show acllog deny I3 flow tenant <WORD> vrf [srcip <A.B.C.D or A:B::C:D>] [dstip <A.B.C.D or A:B::C:D>] [protocol <Protocol>] [srcport <SrcPort>] [dstport <DstPort>] [srcintf <srcintf>] <WORD>**

**Description:** tenant vrf information

**Syntax:**

|                            |  |
|----------------------------|--|
| <i>WORD</i>                | Name of the tenant to filter on (Max Size 63)  |
| <i>A.B.C.D or A:B::C:D</i> | (Optional) IP address in format i.i.i.i or IPv6 address in format xxxx:xxxx, xxxx:xx |
| <i>A.B.C.D or A:B::C:D</i> | (Optional) IP address in format i.i.i.i or IPv6 address in format xxxx:xxxx, xxxx:xx |
| <i>Protocol</i>            | (Optional) Protocol  |
| <i>SrcPort</i>             | (Optional) source port   |
| <i>DstPort</i>             | (Optional) destination port  |
| <i>srcintf</i>             | (Optional) source interface  |
| <i>WORD</i>                | Name of the VRF to filter on (Max Size 64)   |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show acllog deny I3 flow tenant <WORD> vrf [srcip <A.B.C.D or A:B::C:D>] [dstip <A.B.C.D or A:B::C:D>] [protocol <Protocol>] [srcport <SrcPort>] [dstport <DstPort>] [srcintf <srcintf>] <WORD>
```



```
EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE >]
```

# show acllog deny l3 pkt

**show acllog deny l3 pkt**

**Description:** Pkt command

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show acllog deny l3 pkt
```

## show acllog deny l3 pkt tenant vrf

**show acllog deny l3 pkt tenant** <WORD> vrf <WORD> [start-time time-stamp <YYYY-MM-DDTHR:MIN:SEC>] [end-time time-stamp <YYYY-MM-DDTHR:MIN:SEC>] [protocol <protocol>] [srcip <A.B.C.D or A:B::C:D>] [dstip <A.B.C.D or A:B::C:D>] [srcport <NUMBER>] [dstport <NUMBER>] [srcintf <srcintf>] [pktlen <NUMBER>]

**Description:** Vrf Name

**Syntax:**

|  |   |
|--|---|
| <i>WORD</i>                                  | Name of the tenant to filter on (Max Size 63)   |
| <i>WORD</i>                                  | Name of the vrf to filter on (Max Size 64)  |
| <i>time-stamp</i><br><YYYY-MM-DDTHR:MIN:SEC> | (Optional) Event activity in time interval  |
| <i>time-stamp</i><br><YYYY-MM-DDTHR:MIN:SEC> | (Optional) Event activity in time interval  |
| <i>protocol</i>                              | (Optional) protocol   |
| <i>A.B.C.D or A:B::C:D</i>                   | (Optional) IP address in format i.i.i.i or IPv6 address in format xxxx:xxxx, xxxx::xx |
| <i>A.B.C.D or A:B::C:D</i>                   | (Optional) IP address in format i.i.i.i or IPv6 address in format xxxx:xxxx, xxxx::xx |
| <0-65535>                                    | (Optional) Source port. Number range from=0 to=65535                                  |
| <0-65535>                                    | (Optional) Destination port. Number range from=0 to=65535                             |
| <i>srcintf</i>                               | (Optional) source Interface   |
| <1-65535>                                    | (Optional) packet length. Number range from=1 to=65535                                |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show acllog deny l3 pkt tenant <WORD> vrf <WORD> [start-time time-stamp
<YYYY-MM-DDTHR:MIN:SEC>] [end-time time-stamp <YYYY-MM-DDTHR:MIN:SEC>] [protocol <protocol>]
 [srcip <A.B.C.D or A:B::C:D>] [dstip <A.B.C.D or A:B::C:D>] [srcport <NUMBER>] [dstport
<NUMBER>] [srcintf <srcintf>] [pktlen <NUMBER>]
```

# show acllog deny l3 pkt tenant vrf detail

```
show acllog deny l3 pkt tenant <WORD> vrf <WORD> [start-time time-stamp <YYYY-MM-DDTHR:MIN:SEC>]
[end-time time-stamp <YYYY-MM-DDTHR:MIN:SEC>] [protocol <protocol>] [srcip <A.B.C.D or A:B::C:D>]
[dstip <A.B.C.D or A:B::C:D>] [srcport <NUMBER>] [dstport <NUMBER>] [srcintf <srcintf>] [pktlen <NUMBER>]
detail [srcpctag <WORD>] [dstpctag <WORD>] [srcEpgName <WORD>] [dstEpgName <WORD>] [srcmac
<E.E.E EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE >] [dstmac <E.E.E EE-EE-EE-EE-EE-EE
EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE >]
```

**Description:** Detail information

## Syntax:

|   |   |
|---|---|
| <i>WORD</i>   | Name of the tenant to filter on (Max Size 63)   |
| <i>WORD</i>   | Name of the vrf to filter on (Max Size 64)  |
| <i>time-stamp</i><br><YYYY-MM-DDTHR:MIN:SEC>  | (Optional) Event activity in time interval  |
| <i>time-stamp</i><br><YYYY-MM-DDTHR:MIN:SEC>  | (Optional) Event activity in time interval  |
| <i>protocol</i>   | (Optional) protocol   |
| <i>A.B.C.D or A:B::C:D</i>  | (Optional) IP address in format i.i.i.i or IPv6 address in format<br>xxxx:xxxx, xxxx::xx                  |
| <i>A.B.C.D or A:B::C:D</i>  | (Optional) IP address in format i.i.i.i or IPv6 address in format<br>xxxx:xxxx, xxxx::xx                  |
| <0-65535>   | (Optional) Source port. Number range from=0 to=65535  |
| <0-65535>   | (Optional) Destination port. Number range from=0 to=65535   |
| <i>srcintf</i>  | (Optional) source Interface   |
| <1-65535>   | (Optional) packet length. Number range from=1 to=65535  |
| <i>WORD</i>   | (Optional) PC Tag (Max Size None)   |
| <i>WORD</i>   | (Optional) PC Tag (Max Size None)   |
| <i>WORD</i>   | (Optional) Epg Name (Max Size None)   |
| <i>WORD</i>   | (Optional) Epg Name (Max Size None)   |
| <i>E.E.E EE-EE-EE-EE-EE-EE</i><br><i>EE:EE:EE:EE:EE:EE</i><br><i>EEEE.EEEE.EEEE</i> | (Optional) MAC address (Option 1) MAC address (Option 2) MAC<br>address (Option 3) MAC address (Option 4) |



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

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show aclog deny l3 pkt tenant <WORD> vrf <WORD> [start-time time-stamp
<YYYY-MM-DDTHR:MIN:SEC>] [end-time time-stamp <YYYY-MM-DDTHR:MIN:SEC>] [protocol <protocol>]
[srcip <A.B.C.D or A:B::C:D>] [dstip <A.B.C.D or A:B::C:D>] [srcport <NUMBER>] [dstport
<NUMBER>] [srcintf <srcintf>] [pktlen <NUMBER>] detail [srcpctag <WORD>] [dstpctag <WORD>]
[srcEpgName <WORD>] [dstEpgName <WORD>] [srcmac <E.E.E EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE
EEEE.EEEE.EEEE >] [dstmac <E.E.E EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE >]
```

# show acllog permit l2 flow tenant vrf

**show acllog permit l2 flow tenant** <WORD> vrf [vlan <NUMBER>] [srcintf <srcintf>] <WORD>

**Description:** tenant vrf information

**Syntax:**

|                |  |
|----------------|--|
| <i>WORD</i>    | Name of the tenant to filter on (Max Size 63)              |
| <1-4094>       | (Optional) Encapsulation Vlan. Number range from=1 to=4094 |
| <i>srcintf</i> | (Optional) source interface                                |
| <i>WORD</i>    | Name of the VRF to filter on (Max Size 64)                 |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show acllog permit l2 flow tenant <WORD> vrf [vlan <NUMBER>] [srcintf <srcintf>] <WORD>
```

# show acllog permit l2 flow tenant vrf detail

```
show acllog permit l2 flow tenant <WORD> vrf [vlan <NUMBER>] [srcintf <srcintf>] <WORD> detail [srcpctag
<WORD>] [dstpctag <WORD>] [srcEpgName <WORD>] [dstEpgName <WORD>] [srcmac <E.E.E
EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE >] [dstmac <E.E.E EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE
EEEE.EEEE.EEEE >]
```

**Description:** detail information

**Syntax:**

|   |   |
|---|---|
| <i>WORD</i>   | Name of the tenant to filter on (Max Size 63)   |
| <i>&lt;1-4094&gt;</i>   | (Optional) Encapsulation Vlan. Number range from=1 to=4094  |
| <i>srcintf</i>  | (Optional) source interface   |
| <i>WORD</i>   | Name of the VRF to filter on (Max Size 64)  |
| <i>WORD</i>   | (Optional) PC Tag (Max Size None)   |
| <i>WORD</i>   | (Optional) PC Tag (Max Size None)   |
| <i>WORD</i>   | (Optional) Epg Name (Max Size None)   |
| <i>WORD</i>   | (Optional) Epg Name (Max Size None)   |
| <i>E.E.E EE-EE-EE-EE-EE-EE<br/>EE:EE:EE:EE:EE:EE<br/>EEEE.EEEE.EEEE</i> | (Optional) MAC address (Option 1) MAC address (Option 2) MAC<br>address (Option 3) MAC address (Option 4) |
| <i>E.E.E EE-EE-EE-EE-EE-EE<br/>EE:EE:EE:EE:EE:EE<br/>EEEE.EEEE.EEEE</i> | (Optional) MAC address (Option 1) MAC address (Option 2) MAC<br>address (Option 3) MAC address (Option 4) |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show acllog permit l2 flow tenant <WORD> vrf [vlan <NUMBER>] [srcintf <srcintf>] <WORD>
detail [srcpctag <WORD>] [dstpctag <WORD>] [srcEpgName <WORD>] [dstEpgName <WORD>] [srcmac
<E.E.E EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE >] [dstmac <E.E.E EE-EE-EE-EE-EE-EE
EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE >]
```

## show acllog permit l2 pkt tenant vrf

**show acllog permit l2 pkt tenant** <WORD> vrf <WORD> [start-time time-stamp <YYYY-MM-DDTHR:MIN:SEC>] [end-time time-stamp <YYYY-MM-DDTHR:MIN:SEC>] [vlan <NUMBER>] [srcintf <srcintf>] [pktlen <NUMBER>]

**Description:** Vrf Name

**Syntax:**

|  |  |
|--|--|
| <i>WORD</i>                                  | Name of the tenant to filter on (Max Size 63)              |
| <i>WORD</i>                                  | Name of the vrf to filter on (Max Size 64)                 |
| <i>time-stamp</i><br><YYYY-MM-DDTHR:MIN:SEC> | (Optional) Event activity in time interval                 |
| <i>time-stamp</i><br><YYYY-MM-DDTHR:MIN:SEC> | (Optional) Event activity in time interval                 |
| <1-4094>                                     | (Optional) Encapsulation Vlan. Number range from=1 to=4094 |
| <i>srcintf</i>                               | (Optional) source Interface                                |
| <1-65535>                                    | (Optional) packet length. Number range from=1 to=65535     |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show acllog permit l2 pkt tenant <WORD> vrf <WORD> [start-time time-stamp
<YYYY-MM-DDTHR:MIN:SEC>] [end-time time-stamp <YYYY-MM-DDTHR:MIN:SEC>] [vlan <NUMBER>]
[srcintf <srcintf>] [pktlen <NUMBER>]
```

# show aclog permit l2 pkt tenant vrf detail

```
show aclog permit l2 pkt tenant <WORD> vrf <WORD> [start-time time-stamp <YYYY-MM-DDTHR:MIN:SEC>]
[end-time time-stamp <YYYY-MM-DDTHR:MIN:SEC>] [vlan <NUMBER>] [srcintf <srcintf>] [pktlen <NUMBER>]
detail [srcpctag <WORD>] [dstpctag <WORD>] [srcEpgName <WORD>] [dstEpgName <WORD>] [srcmac
<E.E.E EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE >] [dstmac <E.E.E EE-EE-EE-EE-EE-EE
EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE >]
```

**Description:** Detail information

**Syntax:**

|   |  |
|---|--|
| <i>WORD</i>   | Name of the tenant to filter on (Max Size 63)  |
| <i>WORD</i>   | Name of the vrf to filter on (Max Size 64)   |
| <i>time-stamp</i><br><YYYY-MM-DDTHR:MIN:SEC>  | (Optional) Event activity in time interval   |
| <i>time-stamp</i><br><YYYY-MM-DDTHR:MIN:SEC>  | (Optional) Event activity in time interval   |
| <1-4094>  | (Optional) Encapsulation Vlan. Number range from=1 to=4094   |
| <i>srcintf</i>  | (Optional) source Interface  |
| <1-65535>   | (Optional) packet length. Number range from=1 to=65535   |
| <i>WORD</i>   | (Optional) PC Tag (Max Size None)  |
| <i>WORD</i>   | (Optional) PC Tag (Max Size None)  |
| <i>WORD</i>   | (Optional) Epg Name (Max Size None)  |
| <i>WORD</i>   | (Optional) Epg Name (Max Size None)  |
| <i>E.E.E EE-EE-EE-EE-EE-EE</i><br><i>EE:EE:EE:EE:EE:EE</i><br><i>EEEE.EEEE.EEEE</i> | (Optional) MAC address (Option 1) MAC address (Option 2) MAC address (Option 3) MAC address (Option 4) |
| <i>E.E.E EE-EE-EE-EE-EE-EE</i><br><i>EE:EE:EE:EE:EE:EE</i><br><i>EEEE.EEEE.EEEE</i> | (Optional) MAC address (Option 1) MAC address (Option 2) MAC address (Option 3) MAC address (Option 4) |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show aclog permit l2 pkt tenant <WORD> vrf <WORD> [start-time time-stamp
<YYYY-MM-DDTHR:MIN:SEC>] [end-time time-stamp <YYYY-MM-DDTHR:MIN:SEC>] [vlan <NUMBER>]
[srcintf <srcintf>] [pktlen <NUMBER>] detail [srcpctag <WORD>] [dstpctag <WORD>] [srcEpgName
<WORD>] [dstEpgName <WORD>] [srcmac <E.E.E EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE
>] [dstmac <E.E.E EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE >]
```

# show acllog permit l3 flow tenant vrf

**show acllog permit l3 flow tenant <WORD> vrf [srcip <A.B.C.D or A:B::C:D>] [dstip <A.B.C.D or A:B::C:D>] [protocol <Protocol>] [srcport <SrcPort>] [dstport <DstPort>] [srcintf <srcintf>] <WORD>**

**Description:** tenant vrf information

**Syntax:**

|                            |   |
|----------------------------|---|
| <i>WORD</i>                | Name of the tenant to filter on (Max Size 63)   |
| <i>A.B.C.D or A:B::C:D</i> | (Optional) IP address in format i.i.i.i or IPv6 address in format xxxx:xxxx, xxxx::xx |
| <i>A.B.C.D or A:B::C:D</i> | (Optional) IP address in format i.i.i.i or IPv6 address in format xxxx:xxxx, xxxx::xx |
| <i>Protocol</i>            | (Optional) Protocol   |
| <i>SrcPort</i>             | (Optional) source port  |
| <i>DstPort</i>             | (Optional) destination port   |
| <i>srcintf</i>             | (Optional) source interface   |
| <i>WORD</i>                | Name of the VRF to filter on (Max Size 64)  |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show acllog permit l3 flow tenant <WORD> vrf [srcip <A.B.C.D or A:B::C:D>] [dstip <A.B.C.D or A:B::C:D>] [protocol <Protocol>] [srcport <SrcPort>] [dstport <DstPort>] [srcintf <srcintf>] <WORD>
```

# show acllog permit l3 flow tenant vrf detail

```
show acllog permit l3 flow tenant <WORD> vrf [srcip <A.B.C.D or A:B::C:D>] [dstip <A.B.C.D or A:B::C:D>]
[protocol <Protocol>] [srcport <SrcPort>] [dstport <DstPort>] [srcintf <srcintf>] <WORD> detail [srcpctag
<WORD>] [dstpctag <WORD>] [srcEpgName <WORD>] [dstEpgName <WORD>] [srcmac <E.E.E
EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE >] [dstmac <E.E.E EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE
EEEE.EEEE.EEEE >]
```

**Description:** detail information

**Syntax:**

|   |   |
|---|---|
| <i>WORD</i>   | Name of the tenant to filter on (Max Size 63)   |
| <i>A.B.C.D or A:B::C:D</i>  | (Optional) IP address in format i.i.i.i or IPv6 address in format<br>xxxx:xxxx, xxxx:xx                   |
| <i>A.B.C.D or A:B::C:D</i>  | (Optional) IP address in format i.i.i.i or IPv6 address in format<br>xxxx:xxxx, xxxx:xx                   |
| <i>Protocol</i>   | (Optional) Protocol   |
| <i>SrcPort</i>  | (Optional) source port  |
| <i>DstPort</i>  | (Optional) destination port   |
| <i>srcintf</i>  | (Optional) source interface   |
| <i>WORD</i>   | Name of the VRF to filter on (Max Size 64)  |
| <i>WORD</i>   | (Optional) PC Tag (Max Size None)   |
| <i>WORD</i>   | (Optional) PC Tag (Max Size None)   |
| <i>WORD</i>   | (Optional) Epg Name (Max Size None)   |
| <i>WORD</i>   | (Optional) Epg Name (Max Size None)   |
| <i>E.E.E EE-EE-EE-EE-EE-EE<br/>EE:EE:EE:EE:EE:EE<br/>EEEE.EEEE.EEEE</i> | (Optional) MAC address (Option 1) MAC address (Option 2) MAC<br>address (Option 3) MAC address (Option 4) |
| <i>E.E.E EE-EE-EE-EE-EE-EE<br/>EE:EE:EE:EE:EE:EE<br/>EEEE.EEEE.EEEE</i> | (Optional) MAC address (Option 1) MAC address (Option 2) MAC<br>address (Option 3) MAC address (Option 4) |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show acllog permit l3 flow tenant <WORD> vrf [srcip <A.B.C.D or A:B::C:D>] [dstip <A.B.C.D
or A:B::C:D>] [protocol <Protocol>] [srcport <SrcPort>] [dstport <DstPort>] [srcintf
<srcintf>] <WORD> detail [srcpctag <WORD>] [dstpctag <WORD>] [srcEpgName <WORD>] [dstEpgName
<WORD>] [srcmac <E.E.E EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE >] [dstmac <E.E.E
```

```
EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE >]
```



## show acllog permit l3 pkt tenant vrf

**show acllog permit l3 pkt tenant <WORD> vrf <WORD> [start-time time-stamp <YYYY-MM-DDTHR:MIN:SEC>] [end-time time-stamp <YYYY-MM-DDTHR:MIN:SEC>] [protocol <protocol>] [srcip <A.B.C.D or A:B::C:D>] [dstip <A.B.C.D or A:B::C:D>] [srcport <NUMBER>] [dstport <NUMBER>] [srcintf <srcintf>] [pktlen <NUMBER>]**

**Description:** Vrf Name

### Syntax:

|  |   |
|--|---|
| <i>WORD</i>                                  | Name of the tenant to filter on (Max Size 63)   |
| <i>WORD</i>                                  | Name of the vrf to filter on (Max Size 64)  |
| <i>time-stamp</i><br><YYYY-MM-DDTHR:MIN:SEC> | (Optional) Event activity in time interval  |
| <i>time-stamp</i><br><YYYY-MM-DDTHR:MIN:SEC> | (Optional) Event activity in time interval  |
| <i>protocol</i>                              | (Optional) protocol   |
| <i>A.B.C.D or A:B::C:D</i>                   | (Optional) IP address in format i.i.i.i or IPv6 address in format xxxx:xxxx, xxxx::xx |
| <i>A.B.C.D or A:B::C:D</i>                   | (Optional) IP address in format i.i.i.i or IPv6 address in format xxxx:xxxx, xxxx::xx |
| <0-65535>                                    | (Optional) Source port. Number range from=0 to=65535                                  |
| <0-65535>                                    | (Optional) Destination port. Number range from=0 to=65535                             |
| <i>srcintf</i>                               | (Optional) source Interface   |
| <1-65535>                                    | (Optional) packet length. Number range from=1 to=65535                                |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show acllog permit l3 pkt tenant <WORD> vrf <WORD> [start-time time-stamp
<YYYY-MM-DDTHR:MIN:SEC>] [end-time time-stamp <YYYY-MM-DDTHR:MIN:SEC>] [protocol <protocol>]
 [srcip <A.B.C.D or A:B::C:D>] [dstip <A.B.C.D or A:B::C:D>] [srcport <NUMBER>] [dstport
<NUMBER>] [srcintf <srcintf>] [pktlen <NUMBER>]
```

## show acllog permit l3 pkt tenant vrf detail

```
show acllog permit l3 pkt tenant <WORD> vrf <WORD> [start-time time-stamp <YYYY-MM-DDTHR:MIN:SEC>]
[end-time time-stamp <YYYY-MM-DDTHR:MIN:SEC>] [protocol <protocol>] [srcip <A.B.C.D or A:B::C:D>]
[dstip <A.B.C.D or A:B::C:D>] [srcport <NUMBER>] [dstport <NUMBER>] [srcintf <srcintf>] [pktlen <NUMBER>]
detail [srcpctag <WORD>] [dstpctag <WORD>] [srcEpgName <WORD>] [dstEpgName <WORD>] [srcmac
<E.E.E EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE >] [dstmac <E.E.E EE-EE-EE-EE-EE-EE
EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE >]
```

**Description:** Detail information

### Syntax:

|   |   |
|---|---|
| <i>WORD</i>   | Name of the tenant to filter on (Max Size 63)   |
| <i>WORD</i>   | Name of the vrf to filter on (Max Size 64)  |
| <i>time-stamp</i><br><YYYY-MM-DDTHR:MIN:SEC>  | (Optional) Event activity in time interval  |
| <i>time-stamp</i><br><YYYY-MM-DDTHR:MIN:SEC>  | (Optional) Event activity in time interval  |
| <i>protocol</i>   | (Optional) protocol   |
| <i>A.B.C.D or A:B::C:D</i>  | (Optional) IP address in format i.i.i.i or IPv6 address in format<br>xxxx:xxxx, xxxx::xx                  |
| <i>A.B.C.D or A:B::C:D</i>  | (Optional) IP address in format i.i.i.i or IPv6 address in format<br>xxxx:xxxx, xxxx::xx                  |
| <0-65535>   | (Optional) Source port. Number range from=0 to=65535  |
| <0-65535>   | (Optional) Destination port. Number range from=0 to=65535   |
| <i>srcintf</i>  | (Optional) source Interface   |
| <1-65535>   | (Optional) packet length. Number range from=1 to=65535  |
| <i>WORD</i>   | (Optional) PC Tag (Max Size None)   |
| <i>WORD</i>   | (Optional) PC Tag (Max Size None)   |
| <i>WORD</i>   | (Optional) Epg Name (Max Size None)   |
| <i>WORD</i>   | (Optional) Epg Name (Max Size None)   |
| <i>E.E.E EE-EE-EE-EE-EE-EE</i><br><i>EE:EE:EE:EE:EE:EE</i><br><i>EEEE.EEEE.EEEE</i> | (Optional) MAC address (Option 1) MAC address (Option 2) MAC<br>address (Option 3) MAC address (Option 4) |

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

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show aclog permit l3 pkt tenant <WORD> vrf <WORD> [start-time time-stamp
<YYYY-MM-DDTHR:MIN:SEC>] [end-time time-stamp <YYYY-MM-DDTHR:MIN:SEC>] [protocol <protocol>]
[srcip <A.B.C.D or A:B::C:D>] [dstip <A.B.C.D or A:B::C:D>] [srcport <NUMBER>] [dstport
<NUMBER>] [srcintf <srcintf>] [pktlen <NUMBER>] detail [srcpctag <WORD>] [dstpctag <WORD>]
[srcEpgName <WORD>] [dstEpgName <WORD>] [srcmac <E.E.E EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE
EEEE.EEEE.EEEE >] [dstmac <E.E.E EE-EE-EE-EE-EE EE:EE:EE:EE:EE EEEE.EEEE.EEEE >]
```

# show analytics

**show analytics**

**Description:** Show analytics cluster configuration

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show analytics
```

# show application

**show application WORD**

**Description:** Show Application Profiles Information

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the application we eventually want to filter on (Max Size 64) |
|-------------|---|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show application WORD
```

# show audits

**show audits** [*id* <log-id>] [*action* *action*<action-type>] [*user* <user-name>] [*last-minutes* <NUMBER>] [*last-hours* <NUMBER>] [*last-days* <NUMBER>] [*start-time* <YYYY-MM-DDTHR:MIN:SEC>] [*end-time* *end-time* <YYYY-MM-DDTHR:MIN:SEC>] [*detail*] <scope>

**Description:** Show audit-log information

## Syntax:

|  |  |
|--|--|
| <log-id>                                   | (Optional) Log ID  |
| <i>action</i> <action-type>                | (Optional) Object action indicator   |
| <user-name>                                | (Optional) Name of user  |
| <num-minutes>                              | (Optional) Logs created in time interval. Number range from=1 to=59  |
| <num-hours>                                | (Optional) Logs created in time interval. Number range from=1 to=23  |
| <num-days>                                 | (Optional) Logs created in time interval. Number range from=1 to=999   |
| <YYYY-MM-DDTHR:MIN:SEC>                    | (Optional) Logs created in time interval   |
| <i>end-time</i><br><YYYY-MM-DDTHR:MIN:SEC> | (Optional) Logs created in time interval   |
| <i>detail</i>                              | (Optional) Detailed audit-log information. Displays what was modified and displays the old and new settings. |
| <scope>                                    | command scope  |

**Command Mode:** exec : Exec Mode

## Command Path:

```
# show audits [id <log-id>] [action action<action-type>] [user <user-name>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] <scope>
```

# show audits tenant

**show audits** [id <log-id>] [action <action-type>] [user <user-name>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant **WORD**

**Description:** Show Tenants Information

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
|-------------|---|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show audits [id <log-id>] [action <action-type>] [user <user-name>] [last-minutes <NUMBER>]
[last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD
```

# show audits tenant application

**show audits** [*id* <log-id>] [*action* <action-type>] [*user* <user-name>] [*last-minutes* <NUMBER>] [*last-hours* <NUMBER>] [*last-days* <NUMBER>] [*start-time* <YYYY-MM-DDTHR:MIN:SEC>] [*end-time* <YYYY-MM-DDTHR:MIN:SEC>] [*detail*] *tenant* **WORD** *application* **WORD**

**Description:** Show Application Profiles Information

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63)                         |
| <i>WORD</i> | Name of the application we eventually want to filter on (Max Size 64) |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show audits [id <log-id>] [action <action-type>] [user <user-name>] [last-minutes <NUMBER>]
  [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
  <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD application WORD
```



## show audits tenant application epg

**show audits** [*id* <log-id>] [*action* <action-type>] [*user* <user-name>] [*last-minutes* <NUMBER>] [*last-hours* <NUMBER>] [*last-days* <NUMBER>] [*start-time* <YYYY-MM-DDTHR:MIN:SEC>] [*end-time* <YYYY-MM-DDTHR:MIN:SEC>] [*detail*] **tenant** *WORD* **application** *WORD* **epg** *WORD*

**Description:** Show Application EPG Information

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63)                         |
| <i>WORD</i> | Name of the application we eventually want to filter on (Max Size 64) |
| <i>WORD</i> | Name of the AEPG to filter on (Max Size 64)                           |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show audits [id <log-id>] [action <action-type>] [user <user-name>] [last-minutes <NUMBER>]
[last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD application WORD epg WORD
```

## show audits tenant bridge-domain

**show audits** [*id* <log-id>] [*action* <action-type>] [*user* <user-name>] [*last-minutes* <NUMBER>] [*last-hours* <NUMBER>] [*last-days* <NUMBER>] [*start-time* <YYYY-MM-DDTHR:MIN:SEC>] [*end-time* <YYYY-MM-DDTHR:MIN:SEC>] [*detail*] **tenant** *WORD* **bridge-domain** *WORD*

**Description:** Show Bridge-domain Information

### Syntax:

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show audits [id <log-id>] [action <action-type>] [user <user-name>] [last-minutes <NUMBER>]
  [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
  <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD bridge-domain WORD
```

# show audits tenant bridge-domain detail

**show audits** [*id* <log-id>] [*action* <action-type>] [*user* <user-name>] [*last-minutes* <NUMBER>] [*last-hours* <NUMBER>] [*last-days* <NUMBER>] [*start-time* <YYYY-MM-DDTHR:MIN:SEC>] [*end-time* <YYYY-MM-DDTHR:MIN:SEC>] [*detail*] tenant **WORD** bridge-domain **WORD** detail

**Description:** Show Bridge-domain Detailed Information

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show audits [id <log-id>] [action <action-type>] [user <user-name>] [last-minutes <NUMBER>]
[last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD bridge-domain WORD detail
```

# show audits tenant bridge-domain first-hop-security binding-table

**show audits** [id <log-id>] [action <action-type>] [user <user-name>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD bridge-domain WORD first-hop-security binding-table

**Description:** Show Bridge-domain Binding Table Information

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show audits [id <log-id>] [action <action-type>] [user <user-name>] [last-minutes <NUMBER>]
  [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
  <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD bridge-domain WORD first-hop-security
binding-table
```

# show audits tenant bridge-domain first-hop-security statistics arp

**show audits** [*id* <log-id>] [*action* <action-type>] [*user* <user-name>] [*last-minutes* <NUMBER>] [*last-hours* <NUMBER>] [*last-days* <NUMBER>] [*start-time* <YYYY-MM-DDTHR:MIN:SEC>] [*end-time* <YYYY-MM-DDTHR:MIN:SEC>] [*detail*] tenant *WORD* bridge-domain *WORD* first-hop-security statistics arp

**Description:** Show Bridge-domain First Hop Security ARP Statistics

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show audits [id <log-id>] [action <action-type>] [user <user-name>] [last-minutes <NUMBER>]
  [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
  <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD bridge-domain WORD first-hop-security
statistics arp
```

# show audits tenant bridge-domain first-hop-security statistics dhcpv4

**show audits** [id <log-id>] [action <action-type>] [user <user-name>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant **WORD** bridge-domain **WORD** first-hop-security statistics dhcpv4

**Description:** Show Bridge-domain First Hop Security DHCPv4 Statistics

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show audits [id <log-id>] [action <action-type>] [user <user-name>] [last-minutes <NUMBER>]
  [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
  <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD bridge-domain WORD first-hop-security
  statistics dhcpv4
```

# show audits tenant bridge-domain first-hop-security statistics dhcpv6

```
show audits [id <log-id>] [action <action-type>] [user <user-name>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD bridge-domain WORD first-hop-security statistics dhcpv6
```

**Description:** Show Bridge-domain First Hop Security DHCPv6 Statistics

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show audits [id <log-id>] [action <action-type>] [user <user-name>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD bridge-domain WORD first-hop-security statistics dhcpv6
```

# show audits tenant bridge-domain first-hop-security statistics neighbor-discovery

**show audits** [id <log-id>] [action <action-type>] [user <user-name>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant **WORD** bridge-domain **WORD** first-hop-security statistics neighbor-discovery

**Description:** Show Bridge-domain First Hop Security Neighbor Discovery Statistics

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show audits [id <log-id>] [action <action-type>] [user <user-name>] [last-minutes <NUMBER>]
  [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
  <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD bridge-domain WORD first-hop-security
statistics neighbor-discovery
```



## show audits tenant dnsservergroup

**show audits** [*id* <log-id>] [*action* <action-type>] [*user* <user-name>] [*last-minutes* <NUMBER>] [*last-hours* <NUMBER>] [*last-days* <NUMBER>] [*start-time* <YYYY-MM-DDTHR:MIN:SEC>] [*end-time* <YYYY-MM-DDTHR:MIN:SEC>] [*detail*] tenant **WORD** dnsservergroup **WORD**

**Description:** Show Dns Server Group Information

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63)                              |
| <i>WORD</i> | Name of the dns server group we eventually want to filter on (Max Size 16) |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show audits [id <log-id>] [action <action-type>] [user <user-name>] [last-minutes <NUMBER>]
[last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD dnsservergroup WORD
```

## show audits tenant dnsservergroup server

**show audits** [*id* <log-id>] [*action* <action-type>] [*user* <user-name>] [*last-minutes* <NUMBER>] [*last-hours* <NUMBER>] [*last-days* <NUMBER>] [*start-time* <YYYY-MM-DDTHR:MIN:SEC>] [*end-time* <YYYY-MM-DDTHR:MIN:SEC>] [*detail*] **tenant** *WORD* **dnsservergroup** *WORD* **server** *WORD*

**Description:** Show Dns Server Information

### Syntax:

|             |  |
|-------------|--|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63)                              |
| <i>WORD</i> | Name of the dns server group we eventually want to filter on (Max Size 16) |
| <i>WORD</i> | IP of server we eventually want to filter on (Max Size None)               |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show audits [id <log-id>] [action <action-type>] [user <user-name>] [last-minutes <NUMBER>]
[last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD dnsservergroup WORD server WORD
```

## show audits tenant dnsservergroup server domain

**show audits** [*id* <log-id>] [*action* <action-type>] [*user* <user-name>] [*last-minutes* <NUMBER>] [*last-hours* <NUMBER>] [*last-days* <NUMBER>] [*start-time* <YYYY-MM-DDTHR:MIN:SEC>] [*end-time* <YYYY-MM-DDTHR:MIN:SEC>] [*detail*] tenant **WORD** dnsservergroup **WORD** server **WORD** domain **WORD**

**Description:** Show Dns Domain Information

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63)                              |
| <i>WORD</i> | Name of the dns server group we eventually want to filter on (Max Size 16) |
| <i>WORD</i> | IP of server we eventually want to filter on (Max Size None)               |
| <i>WORD</i> | Domain we eventually want to filter on (Max Size 512)                      |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show audits [id <log-id>] [action <action-type>] [user <user-name>] [last-minutes <NUMBER>]
[last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD dnsservergroup WORD server WORD domain WORD
```

## show audits tenant interface bridge-domain

**show audits** [*id* <log-id>] [*action* <action-type>] [*user* <user-name>] [*last-minutes* <NUMBER>] [*last-hours* <NUMBER>] [*last-days* <NUMBER>] [*start-time* <YYYY-MM-DDTHR:MIN:SEC>] [*end-time* <YYYY-MM-DDTHR:MIN:SEC>] [*detail*] **tenant** *WORD* **interface** **bridge-domain** *WORD*

**Description:** Show Bridge-domain Information

### Syntax:

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show audits [id <log-id>] [action <action-type>] [user <user-name>] [last-minutes <NUMBER>]
  [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
  <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD interface bridge-domain WORD
```

# show audits tenant interface bridge-domain detail

**show audits** [*id* <log-id>] [*action* <action-type>] [*user* <user-name>] [*last-minutes* <NUMBER>] [*last-hours* <NUMBER>] [*last-days* <NUMBER>] [*start-time* <YYYY-MM-DDTHR:MIN:SEC>] [*end-time* <YYYY-MM-DDTHR:MIN:SEC>] [*detail*] tenant *WORD* interface bridge-domain *WORD* detail

**Description:** Show Bridge-domain Detailed Information

## Syntax:

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

## Command Path:

```
# show audits [id <log-id>] [action <action-type>] [user <user-name>] [last-minutes <NUMBER>]
[last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD interface bridge-domain WORD detail
```

# show audits tenant interface bridge-domain first-hop-security binding-table

**show audits** [id <log-id>] [action <action-type>] [user <user-name>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant **WORD** interface bridge-domain **WORD** first-hop-security binding-table

**Description:** Show Bridge-domain Binding Table Information

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show audits [id <log-id>] [action <action-type>] [user <user-name>] [last-minutes <NUMBER>]
[last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD interface bridge-domain WORD first-hop-security
binding-table
```

# show audits tenant interface bridge-domain first-hop-security statistics arp

**show audits** [*id* <log-id>] [*action* <action-type>] [*user* <user-name>] [*last-minutes* <NUMBER>] [*last-hours* <NUMBER>] [*last-days* <NUMBER>] [*start-time* <YYYY-MM-DDTHR:MIN:SEC>] [*end-time* <YYYY-MM-DDTHR:MIN:SEC>] [*detail*] tenant *WORD* interface bridge-domain *WORD* first-hop-security statistics arp

**Description:** Show Bridge-domain First Hop Security ARP Statistics

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show audits [id <log-id>] [action <action-type>] [user <user-name>] [last-minutes <NUMBER>]
[last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD interface bridge-domain WORD first-hop-security
statistics arp
```

# show audits tenant interface bridge-domain first-hop-security statistics dhcpv4

**show audits** [id <log-id>] [action <action-type>] [user <user-name>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant **WORD** interface bridge-domain **WORD** first-hop-security statistics dhcpv4

**Description:** Show Bridge-domain First Hop Security DHCPv4 Statistics

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show audits [id <log-id>] [action <action-type>] [user <user-name>] [last-minutes <NUMBER>]
[last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD interface bridge-domain WORD first-hop-security
statistics dhcpv4
```



# show audits tenant interface bridge-domain first-hop-security statistics dhcpv6

**show audits** [*id* <log-id>] [*action* <action-type>] [*user* <user-name>] [*last-minutes* <NUMBER>] [*last-hours* <NUMBER>] [*last-days* <NUMBER>] [*start-time* <YYYY-MM-DDTHR:MIN:SEC>] [*end-time* <YYYY-MM-DDTHR:MIN:SEC>] [*detail*] tenant *WORD* interface bridge-domain *WORD* first-hop-security statistics dhcpv6

**Description:** Show Bridge-domain First Hop Security DHCPv6 Statistics

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show audits [id <log-id>] [action <action-type>] [user <user-name>] [last-minutes <NUMBER>]
[last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD interface bridge-domain WORD first-hop-security
statistics dhcpv6
```

# show audits tenant interface bridge-domain first-hop-security statistics neighbor-discovery

**show audits** [id <log-id>] [action <action-type>] [user <user-name>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant **WORD** interface bridge-domain **WORD** first-hop-security statistics neighbor-discovery

**Description:** Show Bridge-domain First Hop Security Neighbor Discovery Statistics

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show audits [id <log-id>] [action <action-type>] [user <user-name>] [last-minutes <NUMBER>]
[last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD interface bridge-domain WORD first-hop-security
statistics neighbor-discovery
```

## show audits tenant multicast-route-maps

**show audits** [*id* <log-id>] [*action* <action-type>] [*user* <user-name>] [*last-minutes* <NUMBER>] [*last-hours* <NUMBER>] [*last-days* <NUMBER>] [*start-time* <YYYY-MM-DDTHR:MIN:SEC>] [*end-time* <YYYY-MM-DDTHR:MIN:SEC>] [*detail*] tenant **WORD** multicast-route-maps

**Description:** Show multicast route-maps per Tenant

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
|-------------|---|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show audits [id <log-id>] [action <action-type>] [user <user-name>] [last-minutes <NUMBER>]
[last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD multicast-route-maps
```

## show audits tenant vrf

**show audits** [*id* <log-id>] [*action* <action-type>] [*user* <user-name>] [*last-minutes* <NUMBER>] [*last-hours* <NUMBER>] [*last-days* <NUMBER>] [*start-time* <YYYY-MM-DDTHR:MIN:SEC>] [*end-time* <YYYY-MM-DDTHR:MIN:SEC>] [*detail*] **tenant** *WORD* **vrf** *WORD*

**Description:** Show VRF Information

### Syntax:

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show audits [id <log-id>] [action <action-type>] [user <user-name>] [last-minutes <NUMBER>]
  [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
  <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD
```

## show audits tenant vrf acllog l2

**show audits** [*id* <log-id>] [*action* <action-type>] [*user* <user-name>] [*last-minutes* <NUMBER>] [*last-hours* <NUMBER>] [*last-days* <NUMBER>] [*start-time* <YYYY-MM-DDTHR:MIN:SEC>] [*end-time* <YYYY-MM-DDTHR:MIN:SEC>] [*detail*] *tenant* WORD *vrf* WORD *acllog* <permitDrop> *l2* *flow* *vlan* <NUMBER> *srcintf* <srcintf>

**Description:** L2 flow stats

### Syntax:

|                    |  |
|--------------------|--|
| <i>WORD</i>        | Name of the tenant to filter on (Max Size 63)      |
| <i>WORD</i>        | Name of the VRF to filter on (Max Size 64)         |
| <i>permitDrop</i>  | permitDrop   |
| <i>flow</i>        | flowi stats  |
| <i>vlan</i>        | vlan info  |
| < <i>vlan</i> >    | <vlan>. Number range from=0 to=9223372036854775807 |
| <i>srcintf</i>     | source interface                                   |
| < <i>srcintf</i> > | <srcintf>  |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show audits [id <log-id>] [action <action-type>] [user <user-name>] [last-minutes <NUMBER>]
  [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
  <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD acllog <permitDrop> l2 flow vlan
  <NUMBER> srcintf <srcintf>
```

## show audits tenant vrf aclog l3

**show audits** [*id* <log-id>] [*action* <action-type>] [*user* <user-name>] [*last-minutes* <NUMBER>] [*last-hours* <NUMBER>] [*last-days* <NUMBER>] [*start-time* <YYYY-MM-DDTHR:MIN:SEC>] [*end-time* <YYYY-MM-DDTHR:MIN:SEC>] [*detail*] **tenant** *WORD* **vrf** *WORD* **aclog** <permitDrop> **l3** **flow** *srcpctag* <srcpctag> *dstpctag* <dstpctag> *srcepname* <srcepname> *dstepname* <dstepname> *srcip* <A.B.C.D or A:B::C:D> *dstip* <A.B.C.D or A:B::C:D> *proto* <proto> *srcport* <srcport> *dstport* <dstport> *srcintf* <srcintf>

**Description:** L3 flow stats

### Syntax:

|                            |  |
|----------------------------|--|
| <i>WORD</i>                | Name of the tenant to filter on (Max Size 63)                              |
| <i>WORD</i>                | Name of the VRF to filter on (Max Size 64)                                 |
| <i>permitDrop</i>          | permitDrop   |
| flow                       | flow stats   |
| <i>srcpctag</i>            | source pc tag  |
| < <i>srcpctag</i> >        | <srcpctag>   |
| <i>dstpctag</i>            | destination pc tag   |
| < <i>dstpctag</i> >        | <dstpctag>   |
| <i>srcepname</i>           | source epg name  |
| < <i>srcepname</i> >       | <srcepname>  |
| <i>dstepname</i>           | destination epg name   |
| < <i>dstepname</i> >       | <dstepname>  |
| <i>srcip</i>               | source ip  |
| <i>A.B.C.D or A:B::C:D</i> | IP address in format i.i.i.i or IPv6 address in format xxxx:xxxx, xxxx::xx |
| <i>dstip</i>               | destination ip   |
| <i>A.B.C.D or A:B::C:D</i> | IP address in format i.i.i.i or IPv6 address in format xxxx:xxxx, xxxx::xx |
| <i>proto</i>               | protocol   |
| < <i>proto</i> >           | <proto>  |
| <i>srcport</i>             | source port  |
| < <i>srcport</i> >         | <srcport>  |
| <i>dstport</i>             | destination port   |

|                        |                        |
|------------------------|------------------------|
| <i>&lt;dstport&gt;</i> | <i>&lt;dstport&gt;</i> |
| srcintf                | source interface       |
| <i>&lt;srcintf&gt;</i> | <i>&lt;srcintf&gt;</i> |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show audits [id <log-id>] [action <action-type>] [user <user-name>] [last-minutes <NUMBER>]
[last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD acllog <permitDrop> l3 flow srcpctag
<srcpctag> dstpctag <dstpctag> srcepname <srcepname> dstepname <dstepname> srcip
<A.B.C.D or A:B::C:D> dstip <A.B.C.D or A:B::C:D> proto <proto> srcport <srcport> dstport
<dstport> srcintf <srcintf>
```

## show audits tenant vrf detail

**show audits** [*id* <log-id>] [*action* <action-type>] [*user* <user-name>] [*last-minutes* <NUMBER>] [*last-hours* <NUMBER>] [*last-days* <NUMBER>] [*start-time* <YYYY-MM-DDTHR:MIN:SEC>] [*end-time* <YYYY-MM-DDTHR:MIN:SEC>] [*detail*] *tenant* *WORD* *vrf* *WORD* *detail*

**Description:** Show detailed view of VRF

### Syntax:

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show audits [id <log-id>] [action <action-type>] [user <user-name>] [last-minutes <NUMBER>]
  [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
  <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD detail
```



## show audits tenant vrf external-l3 bgp

**show audits** [*id* <log-id>] [*action* <action-type>] [*user* <user-name>] [*last-minutes* <NUMBER>] [*last-hours* <NUMBER>] [*last-days* <NUMBER>] [*start-time* <YYYY-MM-DDTHR:MIN:SEC>] [*end-time* <YYYY-MM-DDTHR:MIN:SEC>] [*detail*] tenant **WORD** vrf **WORD** external-l3 bgp

**Description:** Show command for BGP peers

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show audits [id <log-id>] [action <action-type>] [user <user-name>] [last-minutes <NUMBER>]
[last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD external-l3 bgp
```

## show audits tenant vrf external-l3 bgp node

**show audits** [*id* <log-id>] [*action* <action-type>] [*user* <user-name>] [*last-minutes* <NUMBER>] [*last-hours* <NUMBER>] [*last-days* <NUMBER>] [*start-time* <YYYY-MM-DDTHR:MIN:SEC>] [*end-time* <YYYY-MM-DDTHR:MIN:SEC>] [*detail*] tenant *WORD* vrf *WORD* external-l3 bgp node <101-4000>

**Description:** node to filter on

### Syntax:

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |
| <101-4000>  | Leaf Range or Leaf Name List                  |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show audits [id <log-id>] [action <action-type>] [user <user-name>] [last-minutes <NUMBER>]
[last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD external-l3 bgp node <101-4000>
```

## show audits tenant vrf external-l3 eigrp

**show audits** [*id* <log-id>] [*action* <action-type>] [*user* <user-name>] [*last-minutes* <NUMBER>] [*last-hours* <NUMBER>] [*last-days* <NUMBER>] [*start-time* <YYYY-MM-DDTHR:MIN:SEC>] [*end-time* <YYYY-MM-DDTHR:MIN:SEC>] [*detail*] tenant *WORD* vrf *WORD* external-l3 eigrp

**Description:** Show external l3 EIGRP

### Syntax:

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show audits [id <log-id>] [action <action-type>] [user <user-name>] [last-minutes <NUMBER>]
[last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD external-l3 eigrp
```

## show audits tenant vrf external-l3 eigrp detail

**show audits** [*id* <log-id>] [*action* <action-type>] [*user* <user-name>] [*last-minutes* <NUMBER>] [*last-hours* <NUMBER>] [*last-days* <NUMBER>] [*start-time* <YYYY-MM-DDTHR:MIN:SEC>] [*end-time* <YYYY-MM-DDTHR:MIN:SEC>] [*detail*] tenant *WORD* vrf *WORD* external-l3 eigrp detail

**Description:** Show interanl details

### Syntax:

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show audits [id <log-id>] [action <action-type>] [user <user-name>] [last-minutes <NUMBER>]
  [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
  <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD external-l3 eigrp detail
```

## show audits tenant vrf external-l3 epg

**show audits** [*id* <log-id>] [*action* <action-type>] [*user* <user-name>] [*last-minutes* <NUMBER>] [*last-hours* <NUMBER>] [*last-days* <NUMBER>] [*start-time* <YYYY-MM-DDTHR:MIN:SEC>] [*end-time* <YYYY-MM-DDTHR:MIN:SEC>] [*detail*] **tenant** *WORD* **vrf** *WORD* **external-l3** **epg** <epgName>

**Description:** Show command for external-l3 epgs

### Syntax:

|                    |   |
|--------------------|---|
| <i>WORD</i>        | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i>        | Name of the VRF to filter on (Max Size 64)    |
| < <i>epgName</i> > | Name of the EPG to filter on                  |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show audits [id <log-id>] [action <action-type>] [user <user-name>] [last-minutes <NUMBER>]
[last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD external-l3 epg <epgName>
```

## show audits tenant vrf external-l3 epg detail

**show audits** [id <log-id>] [action <action-type>] [user <user-name>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD external-l3 epg <epgName> detail

**Description:** external-l3 epg in detail with operational status

### Syntax:

|                        |   |
|------------------------|---|
| <i>WORD</i>            | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i>            | Name of the VRF to filter on (Max Size 64)    |
| <i>&lt;epgName&gt;</i> | Name of the EPG to filter on                  |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show audits [id <log-id>] [action <action-type>] [user <user-name>] [last-minutes <NUMBER>]
[last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD external-l3 epg <epgName> detail
```

## show audits tenant vrf external-l3 epg name

**show audits** [*id* <log-id>] [*action* <action-type>] [*user* <user-name>] [*last-minutes* <NUMBER>] [*last-hours* <NUMBER>] [*last-days* <NUMBER>] [*start-time* <YYYY-MM-DDTHR:MIN:SEC>] [*end-time* <YYYY-MM-DDTHR:MIN:SEC>] [*detail*] tenant *WORD* vrf *WORD* external-l3 epg <epgName> name <epgName>

**Description:** EPG name to filter on

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |
| <epgName>   | Name of the EPG to filter on                  |
| <epgName>   | Name of the EPG to filter on                  |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show audits [id <log-id>] [action <action-type>] [user <user-name>] [last-minutes <NUMBER>]
  [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
  <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD external-l3 epg <epgName> name
  <epgName>
```

## show audits tenant vrf external-l3 epg name detail

```
show audits [id <log-id>] [action <action-type>] [user <user-name>] [last-minutes <NUMBER>] [last-hours
<NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD external-l3 epg <epgName> name <epgName>
detail
```

**Description:** external-l3 epg in detail with operational status

### Syntax:

|                        |   |
|------------------------|---|
| <i>WORD</i>            | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i>            | Name of the VRF to filter on (Max Size 64)    |
| <i>&lt;epgName&gt;</i> | Name of the EPG to filter on                  |
| <i>&lt;epgName&gt;</i> | Name of the EPG to filter on                  |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show audits [id <log-id>] [action <action-type>] [user <user-name>] [last-minutes <NUMBER>]
[last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD external-l3 epg <epgName> name
<epgName> detail
```



# show audits tenant vrf external-l3 interfaces

**show audits** [*id* <log-id>] [*action* <action-type>] [*user* <user-name>] [*last-minutes* <NUMBER>] [*last-hours* <NUMBER>] [*last-days* <NUMBER>] [*start-time* <YYYY-MM-DDTHR:MIN:SEC>] [*end-time* <YYYY-MM-DDTHR:MIN:SEC>] [*detail*] tenant **WORD** vrf **WORD** external-l3 interfaces

**Description:** Show tenant <tenant> vrf <vrf> external l3 interfaces

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show audits [id <log-id>] [action <action-type>] [user <user-name>] [last-minutes <NUMBER>]
[last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD external-l3 interfaces
```

## show audits tenant vrf external-l3 interfaces detail

**show audits** [*id* <log-id>] [*action* <action-type>] [*user* <user-name>] [*last-minutes* <NUMBER>] [*last-hours* <NUMBER>] [*last-days* <NUMBER>] [*start-time* <YYYY-MM-DDTHR:MIN:SEC>] [*end-time* <YYYY-MM-DDTHR:MIN:SEC>] [*detail*] **tenant** *WORD* **vrf** *WORD* **external-l3** **interfaces** **detail**

**Description:** Show interfaces details

### Syntax:

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show audits [id <log-id>] [action <action-type>] [user <user-name>] [last-minutes <NUMBER>]
  [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
  <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD external-l3 interfaces detail
```

## show audits tenant vrf external-l3 ospf

**show audits** [*id* <log-id>] [*action* <action-type>] [*user* <user-name>] [*last-minutes* <NUMBER>] [*last-hours* <NUMBER>] [*last-days* <NUMBER>] [*start-time* <YYYY-MM-DDTHR:MIN:SEC>] [*end-time* <YYYY-MM-DDTHR:MIN:SEC>] [*detail*] **tenant** *WORD* **vrf** *WORD* **external-l3 ospf**

**Description:** Show command for IPv4 and IPv6 external l3 OSPF configuration

### Syntax:

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show audits [id <log-id>] [action <action-type>] [user <user-name>] [last-minutes <NUMBER>]
[last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD external-l3 ospf
```

## show audits tenant vrf external-l3 ospf detail

**show audits** [*id* <log-id>] [*action* <action-type>] [*user* <user-name>] [*last-minutes* <NUMBER>] [*last-hours* <NUMBER>] [*last-days* <NUMBER>] [*start-time* <YYYY-MM-DDTHR:MIN:SEC>] [*end-time* <YYYY-MM-DDTHR:MIN:SEC>] [*detail*] *tenant* *WORD* *vrf* *WORD* *external-l3* *ospf* *detail*

**Description:** Show internal details

### Syntax:

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show audits [id <log-id>] [action <action-type>] [user <user-name>] [last-minutes <NUMBER>]
  [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
  <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD external-l3 ospf detail
```

## show audits tenant vrf external-l3 scale

**show audits** [*id* <log-id>] [*action* <action-type>] [*user* <user-name>] [*last-minutes* <NUMBER>] [*last-hours* <NUMBER>] [*last-days* <NUMBER>] [*start-time* <YYYY-MM-DDTHR:MIN:SEC>] [*end-time* <YYYY-MM-DDTHR:MIN:SEC>] [*detail*] tenant **WORD** vrf **WORD** external-l3 scale

**Description:** scale command

### Syntax:

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show audits [id <log-id>] [action <action-type>] [user <user-name>] [last-minutes <NUMBER>]
  [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
  <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD external-l3 scale
```

## show audits tenant vrf external-l3 scale detail

**show audits** [*id* <log-id>] [*action* <action-type>] [*user* <user-name>] [*last-minutes* <NUMBER>] [*last-hours* <NUMBER>] [*last-days* <NUMBER>] [*start-time* <YYYY-MM-DDTHR:MIN:SEC>] [*end-time* <YYYY-MM-DDTHR:MIN:SEC>] [*detail*] *tenant* *WORD* *vrf* *WORD* *external-l3* *scale* *detail*

**Description:** Show scale details

### Syntax:

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show audits [id <log-id>] [action <action-type>] [user <user-name>] [last-minutes <NUMBER>]
  [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
  <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD external-l3 scale detail
```

## show audits tenant vrf external-l3 static-route

**show audits** [*id* <log-id>] [*action* <action-type>] [*user* <user-name>] [*last-minutes* <NUMBER>] [*last-hours* <NUMBER>] [*last-days* <NUMBER>] [*start-time* <YYYY-MM-DDTHR:MIN:SEC>] [*end-time* <YYYY-MM-DDTHR:MIN:SEC>] [*detail*] tenant **WORD** vrf **WORD** external-l3 static-route

**Description:** Show command for external-l3 static routes

### Syntax:

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show audits [id <log-id>] [action <action-type>] [user <user-name>] [last-minutes <NUMBER>]
[last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD external-l3 static-route
```

## show audits tenant vrf external-l3 static-route detail

**show audits** [*id* <log-id>] [*action* <action-type>] [*user* <user-name>] [*last-minutes* <NUMBER>] [*last-hours* <NUMBER>] [*last-days* <NUMBER>] [*start-time* <YYYY-MM-DDTHR:MIN:SEC>] [*end-time* <YYYY-MM-DDTHR:MIN:SEC>] [*detail*] tenant *WORD* vrf *WORD* external-l3 static-route detail

**Description:** static-route in detail with operational status

### Syntax:

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show audits [id <log-id>] [action <action-type>] [user <user-name>] [last-minutes <NUMBER>]
  [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
  <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD external-l3 static-route detail
```



## show audits tenant vrf external-l3 static-route node

**show audits** [*id* <log-id>] [*action* <action-type>] [*user* <user-name>] [*last-minutes* <NUMBER>] [*last-hours* <NUMBER>] [*last-days* <NUMBER>] [*start-time* <YYYY-MM-DDTHR:MIN:SEC>] [*end-time* <YYYY-MM-DDTHR:MIN:SEC>] [*detail*] tenant **WORD** vrf **WORD** external-l3 static-route node

**Description:** node to filter on

### Syntax:

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |
| <i>arg</i>  | Leaf Range or Leaf Name List                  |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show audits [id <log-id>] [action <action-type>] [user <user-name>] [last-minutes <NUMBER>]
[last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD external-l3 static-route node
```

## show audits tenant vrf external-l3 static-route node detail

**show audits** [*id* <log-id>] [*action* <action-type>] [*user* <user-name>] [*last-minutes* <NUMBER>] [*last-hours* <NUMBER>] [*last-days* <NUMBER>] [*start-time* <YYYY-MM-DDTHR:MIN:SEC>] [*end-time* <YYYY-MM-DDTHR:MIN:SEC>] [*detail*] tenant *WORD* vrf *WORD* external-l3 static-route node detail

**Description:** static-route in detail with operational status

### Syntax:

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |
| <i>arg</i>  | Leaf Range or Leaf Name List                  |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show audits [id <log-id>] [action <action-type>] [user <user-name>] [last-minutes <NUMBER>]
[last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD external-l3 static-route node detail
```

## show audits tenant vrf multicast

**show audits** [*id* <log-id>] [*action* <action-type>] [*user* <user-name>] [*last-minutes* <NUMBER>] [*last-hours* <NUMBER>] [*last-days* <NUMBER>] [*start-time* <YYYY-MM-DDTHR:MIN:SEC>] [*end-time* <YYYY-MM-DDTHR:MIN:SEC>] [*detail*] tenant **WORD** vrf **WORD** multicast

**Description:** Show multicast configuration per VRF

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show audits [id <log-id>] [action <action-type>] [user <user-name>] [last-minutes <NUMBER>]
[last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD multicast
```

# show bridge-domain

**show bridge-domain WORD**

**Description:** Show Bridge-domain Information

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the bridge-domain (Max Size 64) |
|-------------|---|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show bridge-domain WORD
```

# show bridge-domain detail

**show bridge-domain WORD detail**

**Description:** Show Bridge-domain Detailed Information

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the bridge-domain (Max Size 64) |
|-------------|---|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show bridge-domain WORD detail
```

# show bridge-domain first-hop-security binding-table

**show bridge-domain WORD first-hop-security binding-table**

**Description:** Show Bridge-domain Binding Table Information

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the bridge-domain (Max Size 64) |
|-------------|---|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show bridge-domain WORD first-hop-security binding-table
```

# show bridge-domain first-hop-security statistics arp

**show bridge-domain WORD first-hop-security statistics arp**

**Description:** Show Bridge-domain First Hop Security ARP Statistics

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the bridge-domain (Max Size 64) |
|-------------|---|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show bridge-domain WORD first-hop-security statistics arp
```

# show bridge-domain first-hop-security statistics dhcpv4

**show bridge-domain WORD first-hop-security statistics dhcpv4**

**Description:** Show Bridge-domain First Hop Security DHCPv4 Statistics

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the bridge-domain (Max Size 64) |
|-------------|---|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show bridge-domain WORD first-hop-security statistics dhcpv4
```



# show bridge-domain first-hop-security statistics dhcpv6

**show bridge-domain WORD first-hop-security statistics dhcpv6**

**Description:** Show Bridge-domain First Hop Security DHCPv6 Statistics

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the bridge-domain (Max Size 64) |
|-------------|---|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show bridge-domain WORD first-hop-security statistics dhcpv6
```

# show bridge-domain first-hop-security statistics neighbor-discovery

**show bridge-domain WORD first-hop-security statistics neighbor-discovery**

**Description:** Show Bridge-domain First Hop Security Neighbor Discovery Statistics

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the bridge-domain (Max Size 64) |
|-------------|---|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show bridge-domain WORD first-hop-security statistics neighbor-discovery
```

# show callhome

## show callhome common

**Description:** Show command for callhome

**Syntax:**

|        |        |
|--------|--------|
| common | Common |
|--------|--------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show callhome common
```

# show callhome common destination-profile

## show callhome common destination-profile

**Description:** Show command for callhome destination-profile

**Syntax:**

|        |        |
|--------|--------|
| common | Common |
|--------|--------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show callhome common destination-profile
```

# show callhome common query-profile

## show callhome common query-profile

**Description:** Show command for callhome destination-profile

**Syntax:**

|        |        |
|--------|--------|
| common | Common |
|--------|--------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show callhome common query-profile
```

# show callhome common transport-email

**show callhome common transport-email**

**Description:** Show command for callhome transport-email

**Syntax:**

|        |        |
|--------|--------|
| common | Common |
|--------|--------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show callhome common transport-email
```

# show catalog

**show catalog**

**Description:** Show catalog information

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show catalog
```

# show cli command

**show cli command** <WORD> [mode <mode-name>]

**Description:** Show Commands Syntax

**Syntax:**

|                      |  |
|----------------------|--|
| <i>WORD</i>          | Command Name pattern between single quotes         |
| < <i>mode-name</i> > | (Optional) Mode name pattern between single quotes |
| details              | (Optional) Show Command Details                    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show cli command <WORD> [mode <mode-name>]
```



# show cli list

**show cli list [mode <mode-name>]**

**Description:** Show all cli-related commands

**Syntax:**

|                          |  |
|--------------------------|--|
| <i>&lt;mode-name&gt;</i> | (Optional) Mode name pattern between single quotes |
| details                  | (Optional) Show Command Details                    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show cli list [mode <mode-name>]
```

# show cli manpage

**show cli manpage** <WORD> [mode <mode-name>]

**Description:** Show Commands ManPage

**Syntax:**

|                      |  |
|----------------------|--|
| <i>WORD</i>          | Command Name pattern between single quotes         |
| < <i>mode-name</i> > | (Optional) Mode name pattern between single quotes |
| details              | (Optional) Show Command Details                    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show cli manpage <WORD> [mode <mode-name>]
```

# show cli path

**show cli path** <WORD> [mode <mode-name>]

**Description:** Show Commands Path

**Syntax:**

|                      |  |
|----------------------|--|
| <i>WORD</i>          | Command Name pattern between single quotes         |
| < <i>mode-name</i> > | (Optional) Mode name pattern between single quotes |
| details              | (Optional) Show Command Details                    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show cli path <WORD> [mode <mode-name>]
```

# show clock

**show clock**

**Description:** Show clock information

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show clock
```

# show cloudave

**show cloudave**

**Description:** Show cloud AVE information

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show cloudave
```

# show cloudsec summary

**show cloudsec summary**

**Description:** Show brief summary of cloudsec policies

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show cloudsec summary
```

# show communication ciphers

**show communication ciphers**

**Description:** HTTPS service cipher suite listings

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show communication ciphers
```

# show communication controller

## show communication controller node-id

**Description:** Show command for nginx web-requests

**Syntax:**

|                |         |
|----------------|---------|
| <i>node-id</i> | node-id |
|----------------|---------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show communication controller node-id
```



# show communication http

**show communication http**

**Description:** HTTP service settings

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show communication http
```

# show communication https

**show communication https**

**Description:** HTTPS service settings

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show communication https
```

# show communication shellinabox

**show communication shellinabox**

**Description:** Shellinabox service settings

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show communication shellinabox
```

# show communication ssh-service

**show communication ssh-service**

**Description:** SSH service settings

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show communication ssh-service
```

# show communication telnet

**show communication telnet**

**Description:** Telnet service settings

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show communication telnet
```

# show communication web-requests

**show communication web-requests**

**Description:** Status of last web requests

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show communication web-requests
```

# show contract-type

**show contract-type WORD**

**Description:** Show Contracts Information Based on Type

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | whitelist (permit) or blacklist(deny) or oob-mgmt type of contract |
|-------------|--|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show contract-type WORD
```

# show contract

**show contract WORD**

**Description:** Show Contracts Information

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the Contract to filter on (Max Size 64) |
|-------------|---|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show contract WORD
```



# show controller

**show controller**

**Description:** Show controller information

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show controller
```

# show controller detail

**show controller detail** [**id** <node-id>]

**Description:** Detailed controller information

**Syntax:**

|                |                                   |
|----------------|-----------------------------------|
| <i>node-id</i> | (Optional) Optional Serial number |
|----------------|-----------------------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show controller detail [id <node-id>]
```

# show cores

**show cores**

**Description:** Show all core dumps

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show cores
```

# show cores status

**show cores status**

**Description:** Show exported core status

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show cores status
```

# show debug counter

**show debug <node-name> <process> counter <counterTopics>**

**Description:** Show Counter information

**Syntax:**

|                              |                |
|------------------------------|----------------|
| <i>&lt;node-name&gt;</i>     | Node name      |
| <i>&lt;process&gt;</i>       | Process name   |
| <i>&lt;counterTopics&gt;</i> | Counter Topics |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show debug <node-name> <process> counter <counterTopics>
```

# show debug log

**show debug <node-name> <process> log**

**Description:** Show log level information

**Syntax:**

|                          |              |
|--------------------------|--------------|
| <i>&lt;node-name&gt;</i> | Node name    |
| <i>&lt;process&gt;</i>   | Process name |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show debug <node-name> <process> log
```

# show deployment endpoint node

**show deployment endpoint node** <WORD>

**Description:** Node id

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Leaf Number (Max Size 4000). Number range from=0 to=9223372036854775807 |
|-------------|---|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show deployment endpoint node <WORD>
```

# show dns-address

**show dns-address**

**Description:** Show dns address information

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show dns-address
```



# show dns-domain

**show dns-domain**

**Description:** Show dns domain information

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show dns-domain
```

# show dot1q-tunnel

**show dot1q-tunnel WORD**

**Description:** Show Dot1q-tunnel Information

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the AEPG to filter on (Max Size 64) |
|-------------|---|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show dot1q-tunnel WORD
```

# show dwdm interface

**show dwdm interface switch <101-4000>**

**Description:** interface

**Syntax:**

|            |           |
|------------|-----------|
| switch     | switch    |
| <101-4000> | switch ID |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show dwdm interface switch <101-4000>
```

# show endpoints

**show endpoints** [*type* <type>] [*mac* <E.E.E EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE >] [*vlan* <NUMBER>] [*ip* <A.B.C.D>] [*ipv6* <A:B::C:D>]

**Description:** Show IP endpoints

**Syntax:**

|   |  |
|---|--|
| <i>type</i>   | (Optional) Endpoint Type   |
| <i>E.E.E EE-EE-EE-EE-EE-EE<br/>EE:EE:EE:EE:EE:EE<br/>EEEE.EEEE.EEEE</i> | (Optional) MAC address (Option 1) MAC address (Option 2) MAC address (Option 3) MAC address (Option 4) |
| <1-4094>  | (Optional) Encapsulation Vlan. Number range from=1 to=4094   |
| <i>A.B.C.D</i>  | (Optional) IP Unicast address in format i.i.i.i  |
| <i>A:B::C:D</i>   | (Optional) IPv6 address in format xxxx:xxxx, xxxx::xx  |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show endpoints [type <type>] [mac <E.E.E EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE >] [vlan <NUMBER>] [ip <A.B.C.D>] [ipv6 <A:B::C:D>]
```

# show endpoints leaf interface ethernet

**show endpoints** [*type* <type>] [*mac* <E.E.E EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE >] [*vlan* <NUMBER>] [*ip* <A.B.C.D>] [*ipv6* <A:B::C:D>] *leaf* <WORD> *interface ethernet ethernet* [<fex>/<slot>/<port>]

**Description:** Show IP endpoints on an interface ethernet

**Syntax:**

|   |  |
|---|--|
| <i>type</i>   | (Optional) Endpoint Type   |
| <i>E.E.E EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE</i> | (Optional) MAC address (Option 1) MAC address (Option 2) MAC address (Option 3) MAC address (Option 4) |
| <1-4094>  | (Optional) Encapsulation Vlan. Number range from=1 to=4094   |
| <i>A.B.C.D</i>  | (Optional) IP Unicast address in format i.i.i.i  |
| <i>A:B::C:D</i>   | (Optional) IPv6 address in format xxxx:xxxx, xxxx::xx  |
| <i>WORD</i>   | Leaf Number (Max Size 4000). Number range from=0 to=9223372036854775807                                |
| <i>ethernet</i> [<fex>/<slot>/<port>]                           | Ethernet Range   |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show endpoints [type <type>] [mac <E.E.E EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE >] [vlan <NUMBER>] [ip <A.B.C.D>] [ipv6 <A:B::C:D>] leaf <WORD> interface ethernet ethernet [<fex>/<slot>/<port>]
```

# show endpoints leaf interface port-channel

**show endpoints** [*type* <type>] [*mac* <E.E.E EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE >] [*vlan* <NUMBER>] [*ip* <A.B.C.D>] [*ipv6* <A:B::C:D>] *leaf* <WORD> *interface port-channel* <WORD> [*fex* <NUMBER>]

**Description:** Show IP endpoints on an interface port-channel

## Syntax:

|   |  |
|---|--|
| <i>type</i>   | (Optional) Endpoint Type   |
| <i>E.E.E EE-EE-EE-EE-EE-EE<br/>EE:EE:EE:EE:EE:EE<br/>EEEE.EEEE.EEEE</i> | (Optional) MAC address (Option 1) MAC address (Option 2) MAC address (Option 3) MAC address (Option 4) |
| <1-4094>  | (Optional) Encapsulation Vlan. Number range from=1 to=4094   |
| <i>A.B.C.D</i>  | (Optional) IP Unicast address in format i.i.i.i  |
| <i>A:B::C:D</i>   | (Optional) IPv6 address in format xxxx:xxxx, xxxx::xx  |
| <i>WORD</i>   | Leaf Number (Max Size 4000). Number range from=0 to=9223372036854775807                                |
| <i>WORD</i>   | Port Channel Name (Max Size 64)  |
| <101-199>   | (Optional) Fex Id. Number range from=101 to=199  |

**Command Mode:** exec : Exec Mode

## Command Path:

```
# show endpoints [type <type>] [mac <E.E.E EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE >] [vlan <NUMBER>] [ip <A.B.C.D>] [ipv6 <A:B::C:D>] leaf <WORD> interface port-channel <WORD> [fex <NUMBER>]
```

# show endpoints vpc

**show endpoints** [*type* <type>] [*mac* <E.E.E EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE >] [*vlan* <NUMBER>] [*ip* <A.B.C.D>] [*ipv6* <A:B::C:D>] **vpc context** <WORD> <WORD> **interface vpc** <WORD> [*fex* <fex>]

**Description:** Show IP endpoints on vpc

## Syntax:

|   |  |
|---|--|
| <i>type</i>   | (Optional) Endpoint Type   |
| <i>E.E.E EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE</i> | (Optional) MAC address (Option 1) MAC address (Option 2) MAC address (Option 3) MAC address (Option 4) |
| <1-4094>  | (Optional) Encapsulation Vlan. Number range from=1 to=4094   |
| <i>A.B.C.D</i>  | (Optional) IP Unicast address in format i.i.i.i  |
| <i>A:B::C:D</i>   | (Optional) IPv6 address in format xxxx:xxxx, xxxx::xx  |
| context   | VPC Context  |
| <i>WORD</i>   | First VPC leaf (Max Size 4000). Number range from=0 to=9223372036854775807                             |
| <i>WORD</i>   | Second VPC leaf (Max Size 4000). Number range from=0 to=9223372036854775807                            |
| interface   | VPC Interface name   |
| vpc   | VPC Interface name   |
| <i>WORD</i>   | VPC Name (Max Size 64)   |
| <i>fex</i>  | (Optional) Fex Id. Number range from=101 to=199  |

**Command Mode:** exec : Exec Mode

## Command Path:

```
# show endpoints [type <type>] [mac <E.E.E EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE >] [vlan <NUMBER>] [ip <A.B.C.D>] [ipv6 <A:B::C:D>] vpc context <WORD> <WORD> interface vpc <WORD> [fex <fex>]
```

# show epq

**show epq WORD**

**Description:** Show Application EPG Information

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the AEPG to filter on (Max Size 64) |
|-------------|---|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show epq WORD
```



# show epg detail

**show epg WORD detail**

**Description:** Show detailed view of Application EPg

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the AEPG to filter on (Max Size 64) |
|-------------|---|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show epg WORD detail
```

# show events

**show events** [*code* <event-code>] [*id* <event-ID>] [*cause* <event-value>] [*last-minutes* <NUMBER>] [*last-hours* <NUMBER>] [*last-days* <NUMBER>] [*start-time* start-time <YYYY-MM-DDTHR:MIN:SEC>] [*end-time* end-time <YYYY-MM-DDTHR:MIN:SEC>] [*detail*] <scope>

**Description:** Show event information

## Syntax:

|  |  |
|--|--|
| <event-code>                                 | (Optional) Event code  |
| <event-ID>                                   | (Optional) Event ID  |
| <event-value>                                | (Optional) Cause   |
| <i>last-minutes</i> <num-minutes>            | (Optional) Event activity in time interval. Number range from=1 to=59  |
| <i>last-hours</i> <num-hours>                | (Optional) Event activity in time interval. Number range from=1 to=23  |
| <i>last-days</i> <num-days>                  | (Optional) Event activity in time interval. Number range from=1 to=999 |
| <i>start-time</i><br><YYYY-MM-DDTHR:MIN:SEC> | (Optional) Event activity in time interval                             |
| <i>end-time</i><br><YYYY-MM-DDTHR:MIN:SEC>   | (Optional) Event activity in time interval                             |
| detail                                       | (Optional) Detailed event information                                  |
| <scope>                                      | command scope  |

**Command Mode:** exec : Exec Mode

## Command Path:

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] <scope>
```

# show events controller

```
show events [code <event-code>][id <event-ID>][cause <event-value>][last-minutes <NUMBER>][last-hours <NUMBER>][last-days <NUMBER>][start-time <YYYY-MM-DDTHR:MIN:SEC>][end-time <YYYY-MM-DDTHR:MIN:SEC>][detail] controller
```

**Description:** Show controller information

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] controller
```

# show events controller detail

**show events** [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] controller detail [id <node-id>]

**Description:** Detailed controller information

**Syntax:**

|                |                                   |
|----------------|-----------------------------------|
| <i>node-id</i> | (Optional) Optional Serial number |
|----------------|-----------------------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] controller detail [id <node-id>]
```

# show events leaf

**show events** [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId>

**Description:** Show command for leaf

**Syntax:**

|          |         |
|----------|---------|
| <leafId> | Leaf id |
|----------|---------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId>
```

## show events leaf fex

**show events** [**code** <event-code>] [**id** <event-ID>] [**cause** <event-value>] [**last-minutes** <NUMBER>] [**last-hours** <NUMBER>] [**last-days** <NUMBER>] [**start-time** <YYYY-MM-DDTHR:MIN:SEC>] [**end-time** <YYYY-MM-DDTHR:MIN:SEC>] [**detail**] **leaf** <leafId> **fex** <fexNum>

**Description:** Show extended chassis information

### Syntax:

|          |                      |
|----------|----------------------|
| <leafId> | Leaf id              |
| <fexNum> | pls enter fex number |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> fex <fexNum>
```

# show events leaf fex module

**show events** [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> fex <fexNum> module <lcSlot>

**Description:** Show inventory module information

**Syntax:**

|          |                                |
|----------|--------------------------------|
| <leafId> | Leaf id                        |
| <fexNum> | pls enter fex number           |
| <lcSlot> | please enter the module number |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> fex <fexNum> module <lcSlot>
```

## show events leaf interface ethernet

**show events** [**code** <event-code>] [**id** <event-ID>] [**cause** <event-value>] [**last-minutes** <NUMBER>] [**last-hours** <NUMBER>] [**last-days** <NUMBER>] [**start-time** <YYYY-MM-DDTHR:MIN:SEC>] [**end-time** <YYYY-MM-DDTHR:MIN:SEC>] [**detail**] **leaf** <leafId> **interface ethernet** <phyInt>

**Description:** Ethernet IEEE 802.3z

### Syntax:

|          |  |
|----------|--|
| <leafId> | Leaf id                                      |
| <phyInt> | <slot or chassis-number/port or slot number> |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> interface ethernet <phyInt>
```



## show events leaf interface fc

```
show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> interface fc <phyInt>
```

**Description:** Fibre Channel Protocol

**Syntax:**

|                       |  |
|-----------------------|--|
| <i>&lt;leafId&gt;</i> | Leaf id                                      |
| <i>&lt;phyInt&gt;</i> | <slot or chassis-number/port or slot number> |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> interface fc <phyInt>
```

# show events leaf interface fcportchannel

**show events** [*code* <event-code>] [*id* <event-ID>] [*cause* <event-value>] [*last-minutes* <NUMBER>] [*last-hours* <NUMBER>] [*last-days* <NUMBER>] [*start-time* <YYYY-MM-DDTHR:MIN:SEC>] [*end-time* <YYYY-MM-DDTHR:MIN:SEC>] [*detail*] leaf <leafId> interface fcportchannel <portChan>

**Description:** FC Port channel interface

## Syntax:

|            |                       |
|------------|-----------------------|
| <leafId>   | Leaf id               |
| <portChan> | <Port channel number> |

**Command Mode:** exec : Exec Mode

## Command Path:

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> interface fcportchannel <portChan>
```

## show events leaf interface l3instance

```
show events [code <event-code>][id <event-ID>][cause <event-value>][last-minutes <NUMBER>][last-hours <NUMBER>][last-days <NUMBER>][start-time <YYYY-MM-DDTHR:MIN:SEC>][end-time <YYYY-MM-DDTHR:MIN:SEC>][detail] leaf <leafId> interface l3instance <l3Inst>
```

**Description:** L3 instance

**Syntax:**

|          |                      |
|----------|----------------------|
| <leafId> | Leaf id              |
| <l3Inst> | <L3 instance number> |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> interface l3instance <l3Inst>
```

## show events leaf interface mgmt

**show events** [**code** <event-code>] [**id** <event-ID>] [**cause** <event-value>] [**last-minutes** <NUMBER>] [**last-hours** <NUMBER>] [**last-days** <NUMBER>] [**start-time** <YYYY-MM-DDTHR:MIN:SEC>] [**end-time** <YYYY-MM-DDTHR:MIN:SEC>] [**detail**] **leaf** <leafId> **interface mgmt** <mgmtPort>

**Description:** Management interface

### Syntax:

|            |                               |
|------------|-------------------------------|
| <leafId>   | Leaf id                       |
| <mgmtPort> | <Management interface number> |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> interface mgmt <mgmtPort>
```

# show events leaf interface portchannel

```
show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> interface portchannel <portChan>
```

**Description:** Port channel interface

**Syntax:**

|            |                       |
|------------|-----------------------|
| <leafId>   | Leaf id               |
| <portChan> | <Port channel number> |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> interface portchannel <portChan>
```

# show events leaf interface tunnel

**show events** [**code** <event-code>] [**id** <event-ID>] [**cause** <event-value>] [**last-minutes** <NUMBER>] [**last-hours** <NUMBER>] [**last-days** <NUMBER>] [**start-time** <YYYY-MM-DDTHR:MIN:SEC>] [**end-time** <YYYY-MM-DDTHR:MIN:SEC>] [**detail**] **leaf** <leafId> **interface tunnel** <tunnelPort>

**Description:** Tunnel Interface

## Syntax:

|              |                           |
|--------------|---------------------------|
| <leafId>     | Leaf id                   |
| <tunnelPort> | <Tunnel interface number> |

**Command Mode:** exec : Exec Mode

## Command Path:

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> interface tunnel <tunnelPort>
```

## show events leaf interface vethernet

```
show events [code <event-code>][id <event-ID>][cause <event-value>][last-minutes <NUMBER>][last-hours <NUMBER>][last-days <NUMBER>][start-time <YYYY-MM-DDTHR:MIN:SEC>][end-time <YYYY-MM-DDTHR:MIN:SEC>][detail] leaf <leafId> interface vethernet <phyInt>
```

**Description:** vethernet ID

**Syntax:**

|          |  |
|----------|--|
| <leafId> | Leaf id                                      |
| <phyInt> | <slot or chassis-number/port or slot number> |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> interface vethernet <phyInt>
```

## show events leaf inventory chassis

**show events** [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> inventory chassis

**Description:** Show inventory chassis information

### Syntax:

|          |         |
|----------|---------|
| <leafId> | Leaf id |
|----------|---------|

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> inventory chassis
```



# show events leaf inventory fans

**show events** [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> inventory fans <ftSlot>

**Description:** Show inventory fan information

**Syntax:**

|          |                           |
|----------|---------------------------|
| <leafId> | Leaf id                   |
| <ftSlot> | pls enter fan tray number |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> inventory fans <ftSlot>
```

## show events leaf inventory module

**show events** [**code** <event-code>] [**id** <event-ID>] [**cause** <event-value>] [**last-minutes** <NUMBER>] [**last-hours** <NUMBER>] [**last-days** <NUMBER>] [**start-time** <YYYY-MM-DDTHR:MIN:SEC>] [**end-time** <YYYY-MM-DDTHR:MIN:SEC>] [**detail**] **leaf** <leafId> **inventory module** <lcSlot>

**Description:** Show inventory module information

### Syntax:

|          |                                |
|----------|--------------------------------|
| <leafId> | Leaf id                        |
| <lcSlot> | please enter the module number |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> inventory module <lcSlot>
```

## show events leaf inventory module fabricport

**show events** [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> inventory module <lcSlot> fabricport <fabPort>

**Description:** Show information for fabric port

### Syntax:

|           |                                  |
|-----------|----------------------------------|
| <leafId>  | Leaf id                          |
| <lcSlot>  | please enter the module number   |
| <fabPort> | pls enter the fabric port number |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> inventory module <lcSlot> fabricport
<fabPort>
```

# show events leaf inventory module leafport

**show events** [**code** <event-code>] [**id** <event-ID>] [**cause** <event-value>] [**last-minutes** <NUMBER>] [**last-hours** <NUMBER>] [**last-days** <NUMBER>] [**start-time** <YYYY-MM-DDTHR:MIN:SEC>] [**end-time** <YYYY-MM-DDTHR:MIN:SEC>] [**detail**] **leaf** <leafId> **inventory module** <lcSlot> **leafport** <leafPort>

**Description:** Show information for leaf port

## Syntax:

|            |                                |
|------------|--------------------------------|
| <leafId>   | Leaf id                        |
| <lcSlot>   | please enter the module number |
| <leafPort> | pls enter the leaf port number |

**Command Mode:** exec : Exec Mode

## Command Path:

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> inventory module <lcSlot> leafport
<leafPort>
```

# show events leaf inventory powersupply

**show events** [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> inventory powersupply <psuSlot>

**Description:** Show inventory power supply information

**Syntax:**

|           |                                  |
|-----------|----------------------------------|
| <leafId>  | Leaf id                          |
| <psuSlot> | pls enter the powersupply number |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> inventory powersupply <psuSlot>
```

# show events leaf inventory supervisor

**show events** [**code** <event-code>] [**id** <event-ID>] [**cause** <event-value>] [**last-minutes** <NUMBER>] [**last-hours** <NUMBER>] [**last-days** <NUMBER>] [**start-time** <YYYY-MM-DDTHR:MIN:SEC>] [**end-time** <YYYY-MM-DDTHR:MIN:SEC>] [**detail**] **leaf** <leafId> **inventory supervisor** <supMod>

**Description:** Show information for supervisor module

## Syntax:

|          |  |
|----------|--|
| <leafId> | Leaf id                                |
| <supMod> | pls enter the supervisor module number |

**Command Mode:** exec : Exec Mode

## Command Path:

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> inventory supervisor <supMod>
```

# show events leaf protocol

**show events** [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> protocol <protName>

**Description:** Show command for protocol

**Syntax:**

|            |               |
|------------|---------------|
| <leafId>   | Leaf id       |
| <protName> | Protocol name |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> protocol <protName>
```

# show events leaf vpc

**show events** [**code** <event-code>] [**id** <event-ID>] [**cause** <event-value>] [**last-minutes** <NUMBER>] [**last-hours** <NUMBER>] [**last-days** <NUMBER>] [**start-time** <YYYY-MM-DDTHR:MIN:SEC>] [**end-time** <YYYY-MM-DDTHR:MIN:SEC>] [**detail**] **leaf** <leafId> **vpc** <vpcPort>

**Description:** Virtual port channel information

## Syntax:

|           |                                       |
|-----------|---------------------------------------|
| <leafId>  | Leaf id                               |
| <vpcPort> | pls enter virtual port channel number |

**Command Mode:** exec : Exec Mode

## Command Path:

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> vpc <vpcPort>
```



# show events leaf vrf

**show events** [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> vrf <vrfPort>

**Description:** Vrf information

**Syntax:**

|           |                    |
|-----------|--------------------|
| <leafId>  | Leaf id            |
| <vrfPort> | pls enter vrf name |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> vrf <vrfPort>
```

# show events spine

**show events** [**code** <event-code>] [**id** <event-ID>] [**cause** <event-value>] [**last-minutes** <NUMBER>] [**last-hours** <NUMBER>] [**last-days** <NUMBER>] [**start-time** <YYYY-MM-DDTHR:MIN:SEC>] [**end-time** <YYYY-MM-DDTHR:MIN:SEC>] [**detail**] **spine** <leafId>

**Description:** Show command for spine

## Syntax:

|          |         |
|----------|---------|
| <leafId> | Leaf id |
|----------|---------|

**Command Mode:** exec : Exec Mode

## Command Path:

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] spine <leafId>
```

# show events spine interface ethernet

**show events** [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] spine <leafId> interface ethernet <phyInt>

**Description:** Ethernet IEEE 802.3z

## Syntax:

|          |  |
|----------|--|
| <leafId> | Leaf id                                      |
| <phyInt> | <slot or chassis-number/port or slot number> |

**Command Mode:** exec : Exec Mode

## Command Path:

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] spine <leafId> interface ethernet <phyInt>
```

## show events spine interface l3instance

```
show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] spine <leafld> interface l3instance <l3Inst>
```

**Description:** L3 instance

### Syntax:

|                       |                      |
|-----------------------|----------------------|
| <i>&lt;leafId&gt;</i> | Leaf id              |
| <i>&lt;l3Inst&gt;</i> | <L3 instance number> |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] spine <leafId> interface l3instance <l3Inst>
```

## show events spine interface mgmt

**show events** [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] spine <leafId> interface mgmt <mgmtPort>

**Description:** Management interface

**Syntax:**

|            |                               |
|------------|-------------------------------|
| <leafId>   | Leaf id                       |
| <mgmtPort> | <Management interface number> |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] spine <leafId> interface mgmt <mgmtPort>
```

# show events spine interface tunnel

**show events** [**code** <event-code>] [**id** <event-ID>] [**cause** <event-value>] [**last-minutes** <NUMBER>] [**last-hours** <NUMBER>] [**last-days** <NUMBER>] [**start-time** <YYYY-MM-DDTHR:MIN:SEC>] [**end-time** <YYYY-MM-DDTHR:MIN:SEC>] [**detail**] spine <leafId> interface tunnel <tunnelPort>

**Description:** Tunnel Interface

## Syntax:

|              |                           |
|--------------|---------------------------|
| <leafId>     | Leaf id                   |
| <tunnelPort> | <Tunnel interface number> |

**Command Mode:** exec : Exec Mode

## Command Path:

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] spine <leafId> interface tunnel <tunnelPort>
```

# show events spine inventory chassis

**show events** [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] spine <leafId> inventory chassis

**Description:** Show inventory chassis information

**Syntax:**

|          |         |
|----------|---------|
| <leafId> | Leaf id |
|----------|---------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] spine <leafId> inventory chassis
```

# show events spine inventory fabric

**show events** [**code** <event-code>] [**id** <event-ID>] [**cause** <event-value>] [**last-minutes** <NUMBER>] [**last-hours** <NUMBER>] [**last-days** <NUMBER>] [**start-time** <YYYY-MM-DDTHR:MIN:SEC>] [**end-time** <YYYY-MM-DDTHR:MIN:SEC>] [**detail**] spine <leafId> inventory fabric <fcMod>

**Description:** Show information for fabric module

## Syntax:

|          |                                    |
|----------|------------------------------------|
| <leafId> | Leaf id                            |
| <fcMod>  | pls enter the fabric module number |

**Command Mode:** exec : Exec Mode

## Command Path:

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] spine <leafId> inventory fabric <fcMod>
```



# show events spine inventory fans

**show events** [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] spine <leafId> inventory fans <ftSlot>

**Description:** Show inventory fan information

**Syntax:**

|          |                           |
|----------|---------------------------|
| <leafId> | Leaf id                   |
| <ftSlot> | pls enter fan tray number |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] spine <leafId> inventory fans <ftSlot>
```

## show events spine inventory module

**show events** [**code** <event-code>] [**id** <event-ID>] [**cause** <event-value>] [**last-minutes** <NUMBER>] [**last-hours** <NUMBER>] [**last-days** <NUMBER>] [**start-time** <YYYY-MM-DDTHR:MIN:SEC>] [**end-time** <YYYY-MM-DDTHR:MIN:SEC>] [**detail**] spine <leafId> inventory module <lcSlot>

**Description:** Show inventory module information

### Syntax:

|          |                                |
|----------|--------------------------------|
| <leafId> | Leaf id                        |
| <lcSlot> | please enter the module number |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] spine <leafId> inventory module <lcSlot>
```

# show events spine inventory module fabricport

**show events** [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] spine <leafId> inventory module <lcSlot> fabricport <fabPort>

**Description:** Show information for fabric port

## Syntax:

|           |                                  |
|-----------|----------------------------------|
| <leafId>  | Leaf id                          |
| <lcSlot>  | please enter the module number   |
| <fabPort> | pls enter the fabric port number |

**Command Mode:** exec : Exec Mode

## Command Path:

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] spine <leafId> inventory module <lcSlot>
fabricport <fabPort>
```

# show events spine inventory powersupply

**show events** [**code** <event-code>] [**id** <event-ID>] [**cause** <event-value>] [**last-minutes** <NUMBER>] [**last-hours** <NUMBER>] [**last-days** <NUMBER>] [**start-time** <YYYY-MM-DDTHR:MIN:SEC>] [**end-time** <YYYY-MM-DDTHR:MIN:SEC>] [**detail**] spine <leafId> inventory powersupply <psuSlot>

**Description:** Show inventory power supply information

## Syntax:

|           |                                  |
|-----------|----------------------------------|
| <leafId>  | Leaf id                          |
| <psuSlot> | pls enter the powersupply number |

**Command Mode:** exec : Exec Mode

## Command Path:

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] spine <leafId> inventory powersupply <psuSlot>
```

# show events spine inventory supervisor

**show events** [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] spine <leafId> inventory supervisor <supMod>

**Description:** Show information for supervisor module

**Syntax:**

|          |  |
|----------|--|
| <leafId> | Leaf id                                |
| <supMod> | pls enter the supervisor module number |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] spine <leafId> inventory supervisor <supMod>
```

## show events spine inventory system

**show events** [**code** <event-code>] [**id** <event-ID>] [**cause** <event-value>] [**last-minutes** <NUMBER>] [**last-hours** <NUMBER>] [**last-days** <NUMBER>] [**start-time** <YYYY-MM-DDTHR:MIN:SEC>] [**end-time** <YYYY-MM-DDTHR:MIN:SEC>] [**detail**] spine <leafId> inventory system <sysMod>

**Description:** Show information for system module

### Syntax:

|          |                                    |
|----------|------------------------------------|
| <leafId> | Leaf id                            |
| <sysMod> | pls enter the system module number |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] spine <leafId> inventory system <sysMod>
```

# show events spine protocol

```
show events [code <event-code>][id <event-ID>][cause <event-value>][last-minutes <NUMBER>][last-hours <NUMBER>][last-days <NUMBER>][start-time <YYYY-MM-DDTHR:MIN:SEC>][end-time <YYYY-MM-DDTHR:MIN:SEC>][detail] spine <leafId> protocol <protName>
```

**Description:** Show command for protocol

**Syntax:**

|                         |               |
|-------------------------|---------------|
| <i>&lt;leafId&gt;</i>   | Leaf id       |
| <i>&lt;protName&gt;</i> | Protocol name |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] spine <leafId> protocol <protName>
```

# show events spine vrf

**show events** [**code** <event-code>] [**id** <event-ID>] [**cause** <event-value>] [**last-minutes** <NUMBER>] [**last-hours** <NUMBER>] [**last-days** <NUMBER>] [**start-time** <YYYY-MM-DDTHR:MIN:SEC>] [**end-time** <YYYY-MM-DDTHR:MIN:SEC>] [**detail**] spine <leafId> vrf <vrfPort>

**Description:** Vrf information

## Syntax:

|           |                    |
|-----------|--------------------|
| <leafId>  | Leaf id            |
| <vrfPort> | pls enter vrf name |

**Command Mode:** exec : Exec Mode

## Command Path:

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] spine <leafId> vrf <vrfPort>
```



# show events tenant

**show events** [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant **WORD**

**Description:** Show Tenants Information

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
|-------------|---|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD
```

# show events tenant application

**show events** [**code** <event-code>] [**id** <event-ID>] [**cause** <event-value>] [**last-minutes** <NUMBER>] [**last-hours** <NUMBER>] [**last-days** <NUMBER>] [**start-time** <YYYY-MM-DDTHR:MIN:SEC>] [**end-time** <YYYY-MM-DDTHR:MIN:SEC>] [**detail**] **tenant** **WORD** **application** **WORD**

**Description:** Show Application Profiles Information

## Syntax:

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63)                         |
| <i>WORD</i> | Name of the application we eventually want to filter on (Max Size 64) |

**Command Mode:** exec : Exec Mode

## Command Path:

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD application WORD
```

# show events tenant application epg

**show events** [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant **WORD** application **WORD** epg **WORD**

**Description:** Show Application EPG Information

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63)                         |
| <i>WORD</i> | Name of the application we eventually want to filter on (Max Size 64) |
| <i>WORD</i> | Name of the AEPG to filter on (Max Size 64)                           |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD application WORD epg WORD
```

# show events tenant bridge-domain

**show events** [**code** <event-code>] [**id** <event-ID>] [**cause** <event-value>] [**last-minutes** <NUMBER>] [**last-hours** <NUMBER>] [**last-days** <NUMBER>] [**start-time** <YYYY-MM-DDTHR:MIN:SEC>] [**end-time** <YYYY-MM-DDTHR:MIN:SEC>] [**detail**] **tenant** **WORD** **bridge-domain** **WORD**

**Description:** Show Bridge-domain Information

## Syntax:

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

## Command Path:

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD bridge-domain WORD
```

# show events tenant bridge-domain detail

**show events** [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant **WORD** bridge-domain **WORD** detail

**Description:** Show Bridge-domain Detailed Information

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD bridge-domain WORD detail
```

# show events tenant bridge-domain first-hop-security binding-table

**show events** [**code** <event-code>] [**id** <event-ID>] [**cause** <event-value>] [**last-minutes** <NUMBER>] [**last-hours** <NUMBER>] [**last-days** <NUMBER>] [**start-time** <YYYY-MM-DDTHR:MIN:SEC>] [**end-time** <YYYY-MM-DDTHR:MIN:SEC>] [**detail**] **tenant** WORD **bridge-domain** WORD **first-hop-security binding-table**

**Description:** Show Bridge-domain Binding Table Information

## Syntax:

|      |   |
|------|---|
| WORD | Name of the tenant to filter on (Max Size 63) |
| WORD | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

## Command Path:

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD bridge-domain WORD first-hop-security
binding-table
```

# show events tenant bridge-domain first-hop-security statistics arp

**show events** [*code* <event-code>] [*id* <event-ID>] [*cause* <event-value>] [*last-minutes* <NUMBER>] [*last-hours* <NUMBER>] [*last-days* <NUMBER>] [*start-time* <YYYY-MM-DDTHR:MIN:SEC>] [*end-time* <YYYY-MM-DDTHR:MIN:SEC>] [*detail*] tenant *WORD* bridge-domain *WORD* first-hop-security statistics arp

**Description:** Show Bridge-domain First Hop Security ARP Statistics

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD bridge-domain WORD first-hop-security
statistics arp
```

# show events tenant bridge-domain first-hop-security statistics dhcpv4

**show events** [**code** <event-code>] [**id** <event-ID>] [**cause** <event-value>] [**last-minutes** <NUMBER>] [**last-hours** <NUMBER>] [**last-days** <NUMBER>] [**start-time** <YYYY-MM-DDTHR:MIN:SEC>] [**end-time** <YYYY-MM-DDTHR:MIN:SEC>] [**detail**] **tenant** **WORD** **bridge-domain** **WORD** **first-hop-security** **statistics** **dhcpv4**

**Description:** Show Bridge-domain First Hop Security DHCPv4 Statistics

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD bridge-domain WORD first-hop-security
statistics dhcpv4
```



# show events tenant bridge-domain first-hop-security statistics dhcpv6

```
show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD bridge-domain WORD first-hop-security statistics dhcpv6
```

**Description:** Show Bridge-domain First Hop Security DHCPv6 Statistics

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD bridge-domain WORD first-hop-security statistics dhcpv6
```

# show events tenant bridge-domain first-hop-security statistics neighbor-discovery

```
show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD bridge-domain WORD first-hop-security statistics neighbor-discovery
```

**Description:** Show Bridge-domain First Hop Security Neighbor Discovery Statistics

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD bridge-domain WORD first-hop-security statistics neighbor-discovery
```

# show events tenant dnsservergroup

**show events** [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant **WORD** dnsservergroup **WORD**

**Description:** Show Dns Server Group Information

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63)                              |
| <i>WORD</i> | Name of the dns server group we eventually want to filter on (Max Size 16) |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD dnsservergroup WORD
```

## show events tenant dnsservergroup server

**show events** [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant **WORD** dnsservergroup **WORD** server **WORD**

**Description:** Show Dns Server Information

### Syntax:

|             |  |
|-------------|--|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63)                              |
| <i>WORD</i> | Name of the dns server group we eventually want to filter on (Max Size 16) |
| <i>WORD</i> | IP of server we eventually want to filter on (Max Size None)               |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD dnsservergroup WORD server WORD
```

# show events tenant dnsservergroup server domain

**show events** [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant **WORD** dnsservergroup **WORD** server **WORD** domain **WORD**

**Description:** Show Dns Domain Information

## Syntax:

|             |  |
|-------------|--|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63)                              |
| <i>WORD</i> | Name of the dns server group we eventually want to filter on (Max Size 16) |
| <i>WORD</i> | IP of server we eventually want to filter on (Max Size None)               |
| <i>WORD</i> | Domain we eventually want to filter on (Max Size 512)                      |

**Command Mode:** exec : Exec Mode

## Command Path:

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD dnsservergroup WORD server WORD domain WORD
```

# show events tenant endpoints

```
show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD endpoints [type <type>] [mac <E.E.E EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE >] [vlan <NUMBER>] [ip <A.B.C.D>] [ipv6 <A:B::C:D>]
```

**Description:** Show IP endpoints

## Syntax:

|   |  |
|---|--|
| <i>WORD</i>   | Name of the tenant to filter on (Max Size 63)  |
| <i>type</i>   | (Optional) Endpoint Type   |
| <i>E.E.E EE-EE-EE-EE-EE-EE<br/>EE:EE:EE:EE:EE:EE<br/>EEEE.EEEE.EEEE</i> | (Optional) MAC address (Option 1) MAC address (Option 2) MAC address (Option 3) MAC address (Option 4) |
| <i>&lt;1-4094&gt;</i>   | (Optional) Encapsulation Vlan. Number range from=1 to=4094   |
| <i>A.B.C.D</i>  | (Optional) IP Unicast address in format i.i.i.i  |
| <i>A:B::C:D</i>   | (Optional) IPv6 address in format xxxx:xxxx, xxxx::xx  |

**Command Mode:** exec : Exec Mode

## Command Path:

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD endpoints [type <type>] [mac <E.E.E EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE >] [vlan <NUMBER>] [ip <A.B.C.D>] [ipv6 <A:B::C:D>]
```

# show events tenant endpoints leaf interface ethernet

```
show events [code <event-code>][id <event-ID>][cause <event-value>][last-minutes <NUMBER>][last-hours
<NUMBER>][last-days <NUMBER>][start-time <YYYY-MM-DDTHR:MIN:SEC>][end-time
<YYYY-MM-DDTHR:MIN:SEC>][detail] tenant WORD endpoints [type <type>][mac <E.E.E EE-EE-EE-EE-EE-EE
EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE >][vlan <NUMBER>][ip <A.B.C.D>][ipv6 <A:B::C:D>] leaf <WORD> interface
ethernet ethernet [<fex>/<slot>/<port>
```

**Description:** Show IP endpoints on an interface ethernet

## Syntax:

|   |  |
|---|--|
| <i>WORD</i>   | Name of the tenant to filter on (Max Size 63)  |
| <i>type</i>   | (Optional) Endpoint Type   |
| <i>E.E.E EE-EE-EE-EE-EE-EE<br/>EE:EE:EE:EE:EE:EE<br/>EEEE.EEEE.EEEE</i> | (Optional) MAC address (Option 1) MAC address (Option 2) MAC address (Option 3) MAC address (Option 4) |
| <i>&lt;1-4094&gt;</i>   | (Optional) Encapsulation Vlan. Number range from=1 to=4094   |
| <i>A.B.C.D</i>  | (Optional) IP Unicast address in format i.i.i.i  |
| <i>A:B::C:D</i>   | (Optional) IPv6 address in format xxxx:xxxx, xxxx::xx  |
| <i>WORD</i>   | Leaf Number (Max Size 4000). Number range from=0 to=9223372036854775807                                |
| <i>ethernet [&lt;fex&gt;/&lt;slot&gt;/&lt;port&gt;</i>                  | Ethernet Range   |

**Command Mode:** exec : Exec Mode

## Command Path:

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD endpoints [type <type>] [mac <E.E.E
EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE >] [vlan <NUMBER>] [ip <A.B.C.D>] [ipv6
<A:B::C:D>] leaf <WORD> interface ethernet ethernet [<fex>/<slot>/<port>
```

# show events tenant endpoints leaf interface port-channel

```
show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD endpoints [type <type>] [mac <E.E.E EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE >] [vlan <NUMBER>] [ip <A.B.C.D>] [ipv6 <A:B::C:D>] leaf <WORD> interface port-channel <WORD> [fex <NUMBER>]
```

**Description:** Show IP endpoints on an interface port-channel

## Syntax:

|   |  |
|---|--|
| <i>WORD</i>   | Name of the tenant to filter on (Max Size 63)  |
| <i>type</i>   | (Optional) Endpoint Type   |
| <i>E.E.E EE-EE-EE-EE-EE-EE<br/>EE:EE:EE:EE:EE:EE<br/>EEEE.EEEE.EEEE</i> | (Optional) MAC address (Option 1) MAC address (Option 2) MAC address (Option 3) MAC address (Option 4) |
| <i>&lt;1-4094&gt;</i>   | (Optional) Encapsulation Vlan. Number range from=1 to=4094   |
| <i>A.B.C.D</i>  | (Optional) IP Unicast address in format i.i.i.i  |
| <i>A:B::C:D</i>   | (Optional) IPv6 address in format xxxx:xxxx, xxxx::xx  |
| <i>WORD</i>   | Leaf Number (Max Size 4000). Number range from=0 to=9223372036854775807                                |
| <i>WORD</i>   | Port Channel Name (Max Size 64)  |
| <i>&lt;101-199&gt;</i>  | (Optional) Fex Id. Number range from=101 to=199  |

**Command Mode:** exec : Exec Mode

## Command Path:

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD endpoints [type <type>] [mac <E.E.E EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE >] [vlan <NUMBER>] [ip <A.B.C.D>] [ipv6 <A:B::C:D>] leaf <WORD> interface port-channel <WORD> [fex <NUMBER>]
```



# show events tenant endpoints vpc

```
show events [code <event-code>][id <event-ID>][cause <event-value>][last-minutes <NUMBER>][last-hours
<NUMBER>][last-days <NUMBER>][start-time <YYYY-MM-DDTHR:MIN:SEC>][end-time
<YYYY-MM-DDTHR:MIN:SEC>][detail] tenant WORD endpoints [type <type>][mac <E.E.E EE-EE-EE-EE-EE
EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE >][vlan <NUMBER>][ip <A.B.C.D>][ipv6 <A:B::C:D>] vpc context <WORD>
<WORD> interface vpc <WORD> [fex <fex>]
```

**Description:** Show IP endpoints on vpc

## Syntax:

|   |  |
|---|--|
| <i>WORD</i>   | Name of the tenant to filter on (Max Size 63)  |
| <i>type</i>   | (Optional) Endpoint Type   |
| <i>E.E.E EE-EE-EE-EE-EE-EE<br/>EE:EE:EE:EE:EE:EE<br/>EEEE.EEEE.EEEE</i> | (Optional) MAC address (Option 1) MAC address (Option 2) MAC address (Option 3) MAC address (Option 4) |
| <i>&lt;1-4094&gt;</i>   | (Optional) Encapsulation Vlan. Number range from=1 to=4094   |
| <i>A.B.C.D</i>  | (Optional) IP Unicast address in format i.i.i.i  |
| <i>A:B::C:D</i>   | (Optional) IPv6 address in format xxxx:xxxx, xxxx::xx  |
| context   | VPC Context  |
| <i>WORD</i>   | First VPC leaf (Max Size 4000). Number range from=0 to=9223372036854775807                             |
| <i>WORD</i>   | Second VPC leaf (Max Size 4000). Number range from=0 to=9223372036854775807                            |
| interface   | VPC Interface name   |
| vpc   | VPC Interface name   |
| <i>WORD</i>   | VPC Name (Max Size 64)   |
| <i>fex</i>  | (Optional) Fex Id. Number range from=101 to=199  |

**Command Mode:** exec : Exec Mode

## Command Path:

```
# show events [code <event-code>][id <event-ID>][cause <event-value>][last-minutes
<NUMBER>][last-hours <NUMBER>][last-days <NUMBER>][start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>][detail] tenant WORD endpoints [type <type>][mac <E.E.E
EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE >][vlan <NUMBER>][ip <A.B.C.D>][ipv6
<A:B::C:D>] vpc context <WORD> <WORD> interface vpc <WORD> [fex <fex>]
```

## show events tenant interface bridge-domain

**show events** [**code** <event-code>] [**id** <event-ID>] [**cause** <event-value>] [**last-minutes** <NUMBER>] [**last-hours** <NUMBER>] [**last-days** <NUMBER>] [**start-time** <YYYY-MM-DDTHR:MIN:SEC>] [**end-time** <YYYY-MM-DDTHR:MIN:SEC>] [**detail**] **tenant** **WORD** **interface** **bridge-domain** **WORD**

**Description:** Show Bridge-domain Information

### Syntax:

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD interface bridge-domain WORD
```

# show events tenant interface bridge-domain detail

**show events** [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant **WORD** interface bridge-domain **WORD** detail

**Description:** Show Bridge-domain Detailed Information

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD interface bridge-domain WORD detail
```

# show events tenant interface bridge-domain first-hop-security binding-table

**show events** [**code** <event-code>] [**id** <event-ID>] [**cause** <event-value>] [**last-minutes** <NUMBER>] [**last-hours** <NUMBER>] [**last-days** <NUMBER>] [**start-time** <YYYY-MM-DDTHR:MIN:SEC>] [**end-time** <YYYY-MM-DDTHR:MIN:SEC>] [**detail**] **tenant** **WORD** **interface** **bridge-domain** **WORD** **first-hop-security** **binding-table**

**Description:** Show Bridge-domain Binding Table Information

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD interface bridge-domain WORD
first-hop-security binding-table
```

# show events tenant interface bridge-domain first-hop-security statistics arp

```
show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD interface bridge-domain WORD first-hop-security statistics arp
```

**Description:** Show Bridge-domain First Hop Security ARP Statistics

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD interface bridge-domain WORD first-hop-security statistics arp
```

# show events tenant interface bridge-domain first-hop-security statistics dhcpv4

**show events** [**code** <event-code>] [**id** <event-ID>] [**cause** <event-value>] [**last-minutes** <NUMBER>] [**last-hours** <NUMBER>] [**last-days** <NUMBER>] [**start-time** <YYYY-MM-DDTHR:MIN:SEC>] [**end-time** <YYYY-MM-DDTHR:MIN:SEC>] [**detail**] **tenant** **WORD** **interface** **bridge-domain** **WORD** **first-hop-security** **statistics** **dhcpv4**

**Description:** Show Bridge-domain First Hop Security DHCPv4 Statistics

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD interface bridge-domain WORD
first-hop-security statistics dhcpv4
```

# show events tenant interface bridge-domain first-hop-security statistics dhcpv6

**show events** [*code* <event-code>] [*id* <event-ID>] [*cause* <event-value>] [*last-minutes* <NUMBER>] [*last-hours* <NUMBER>] [*last-days* <NUMBER>] [*start-time* <YYYY-MM-DDTHR:MIN:SEC>] [*end-time* <YYYY-MM-DDTHR:MIN:SEC>] [*detail*] **tenant** *WORD* **interface** *bridge-domain* *WORD* **first-hop-security** **statistics** **dhcpv6**

**Description:** Show Bridge-domain First Hop Security DHCPv6 Statistics

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD interface bridge-domain WORD
first-hop-security statistics dhcpv6
```

# show events tenant interface bridge-domain first-hop-security statistics neighbor-discovery

**show events** [**code** <event-code>] [**id** <event-ID>] [**cause** <event-value>] [**last-minutes** <NUMBER>] [**last-hours** <NUMBER>] [**last-days** <NUMBER>] [**start-time** <YYYY-MM-DDTHR:MIN:SEC>] [**end-time** <YYYY-MM-DDTHR:MIN:SEC>] [**detail**] **tenant** **WORD** **interface** **bridge-domain** **WORD** **first-hop-security** **statistics** **neighbor-discovery**

**Description:** Show Bridge-domain First Hop Security Neighbor Discovery Statistics

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD interface bridge-domain WORD
first-hop-security statistics neighbor-discovery
```



## show events tenant multicast-route-maps

**show events** [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant **WORD** multicast-route-maps

**Description:** Show multicast route-maps per Tenant

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
|-------------|---|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD multicast-route-maps
```

## show events tenant vrf

**show events** [**code** <event-code>] [**id** <event-ID>] [**cause** <event-value>] [**last-minutes** <NUMBER>] [**last-hours** <NUMBER>] [**last-days** <NUMBER>] [**start-time** <YYYY-MM-DDTHR:MIN:SEC>] [**end-time** <YYYY-MM-DDTHR:MIN:SEC>] [**detail**] **tenant** **WORD** **vrf** **WORD**

**Description:** Show VRF Information

### Syntax:

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD
```

## show events tenant vrf acllog l2

**show events** [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD acllog <permitDrop> l2 flow vlan <NUMBER> srcintf <srcintf>

**Description:** L2 flow stats

**Syntax:**

|            |  |
|------------|--|
| WORD       | Name of the tenant to filter on (Max Size 63)      |
| WORD       | Name of the VRF to filter on (Max Size 64)         |
| permitDrop | permitDrop   |
| flow       | flowi stats  |
| vlan       | vlan info  |
| <vlan>     | <vlan>. Number range from=0 to=9223372036854775807 |
| srcintf    | source interface                                   |
| <srcintf>  | <srcintf>  |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD acllog <permitDrop> l2
flow vlan <NUMBER> srcintf <srcintf>
```

## show events tenant vrf aclog l3

**show events** [*code* <event-code>] [*id* <event-ID>] [*cause* <event-value>] [*last-minutes* <NUMBER>] [*last-hours* <NUMBER>] [*last-days* <NUMBER>] [*start-time* <YYYY-MM-DDTHR:MIN:SEC>] [*end-time* <YYYY-MM-DDTHR:MIN:SEC>] [*detail*] **tenant** *WORD* **vrf** *WORD* **aclog** <permitDrop> **l3** **flow** *srcpctag* <srcpctag> *dstpctag* <dstpctag> *srcepname* <srcepname> *dstepname* <dstepname> *srcip* <A.B.C.D or A:B::C:D> *dstip* <A.B.C.D or A:B::C:D> *proto* <proto> *srcport* <srcport> *dstport* <dstport> *srcintf* <srcintf>

**Description:** L3 flow stats

### Syntax:

|                            |  |
|----------------------------|--|
| <i>WORD</i>                | Name of the tenant to filter on (Max Size 63)                              |
| <i>WORD</i>                | Name of the VRF to filter on (Max Size 64)                                 |
| <i>permitDrop</i>          | permitDrop   |
| flow                       | flow stats   |
| <i>srcpctag</i>            | source pc tag  |
| < <i>srcpctag</i> >        | <srcpctag>   |
| <i>dstpctag</i>            | destination pc tag   |
| < <i>dstpctag</i> >        | <dstpctag>   |
| <i>srcepname</i>           | source epg name  |
| < <i>srcepname</i> >       | <srcepname>  |
| <i>dstepname</i>           | destination epg name   |
| < <i>dstepname</i> >       | <dstepname>  |
| <i>srcip</i>               | source ip  |
| <i>A.B.C.D or A:B::C:D</i> | IP address in format i.i.i.i or IPv6 address in format xxxx:xxxx, xxxx::xx |
| <i>dstip</i>               | destination ip   |
| <i>A.B.C.D or A:B::C:D</i> | IP address in format i.i.i.i or IPv6 address in format xxxx:xxxx, xxxx::xx |
| <i>proto</i>               | protocol   |
| < <i>proto</i> >           | <proto>  |
| <i>srcport</i>             | source port  |
| < <i>srcport</i> >         | <srcport>  |
| <i>dstport</i>             | destination port   |

|                        |                        |
|------------------------|------------------------|
| <i>&lt;dstport&gt;</i> | <i>&lt;dstport&gt;</i> |
| srcintf                | source interface       |
| <i>&lt;srcintf&gt;</i> | <i>&lt;srcintf&gt;</i> |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD acllog <permitDrop> l3
flow srcpctag <srcpctag> dstpctag <dstpctag> srcepgname <srcepgname> dstepgname <dstepgname>
srcip <A.B.C.D or A:B::C:D> dstip <A.B.C.D or A:B::C:D> proto <proto> srcport <srcport>
dstport <dstport> srcintf <srcintf>
```

## show events tenant vrf detail

**show events** [**code** <event-code>] [**id** <event-ID>] [**cause** <event-value>] [**last-minutes** <NUMBER>] [**last-hours** <NUMBER>] [**last-days** <NUMBER>] [**start-time** <YYYY-MM-DDTHR:MIN:SEC>] [**end-time** <YYYY-MM-DDTHR:MIN:SEC>] [**detail**] **tenant** **WORD** **vrf** **WORD** **detail**

**Description:** Show detailed view of VRF

### Syntax:

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD detail
```

# show events tenant vrf external-l3 bgp

**show events** [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant **WORD** vrf **WORD** external-l3 bgp

**Description:** Show command for BGP peers

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD external-l3 bgp
```

## show events tenant vrf external-l3 bgp node

**show events** [**code** <event-code>] [**id** <event-ID>] [**cause** <event-value>] [**last-minutes** <NUMBER>] [**last-hours** <NUMBER>] [**last-days** <NUMBER>] [**start-time** <YYYY-MM-DDTHR:MIN:SEC>] [**end-time** <YYYY-MM-DDTHR:MIN:SEC>] [**detail**] **tenant** **WORD** **vrf** **WORD** **external-l3** **bgp** **node** <101-4000>

**Description:** node to filter on

### Syntax:

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |
| <101-4000>  | Leaf Range or Leaf Name List                  |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD external-l3 bgp node
<101-4000>
```



## show events tenant vrf external-l3 eigrp

**show events** [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant **WORD** vrf **WORD** external-l3 eigrp

**Description:** Show external l3 EIGRP

### Syntax:

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD external-l3 eigrp
```

## show events tenant vrf external-l3 eigrp detail

**show events** [**code** <event-code>] [**id** <event-ID>] [**cause** <event-value>] [**last-minutes** <NUMBER>] [**last-hours** <NUMBER>] [**last-days** <NUMBER>] [**start-time** <YYYY-MM-DDTHR:MIN:SEC>] [**end-time** <YYYY-MM-DDTHR:MIN:SEC>] [**detail**] **tenant** **WORD** **vrf** **WORD** **external-l3 eigrp detail**

**Description:** Show interanl details

### Syntax:

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD external-l3 eigrp detail
```

## show events tenant vrf external-l3 epg

**show events** [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant **WORD** vrf **WORD** external-l3 epg <epgName>

**Description:** Show command for external-l3 epgs

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |
| <epgName>   | Name of the EPG to filter on                  |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD external-l3 epg <epgName>
```

## show events tenant vrf external-l3 epg detail

**show events** [**code** <event-code>] [**id** <event-ID>] [**cause** <event-value>] [**last-minutes** <NUMBER>] [**last-hours** <NUMBER>] [**last-days** <NUMBER>] [**start-time** <YYYY-MM-DDTHR:MIN:SEC>] [**end-time** <YYYY-MM-DDTHR:MIN:SEC>] [**detail**] **tenant** **WORD** **vrf** **WORD** **external-l3** **epg** <epgName> **detail**

**Description:** external-l3 epg in detail with operational status

### Syntax:

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |
| <epgName>   | Name of the EPG to filter on                  |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD external-l3 epg <epgName>
detail
```

## show events tenant vrf external-l3 epg name

```
show events [code <event-code>][id <event-ID>][cause <event-value>][last-minutes <NUMBER>][last-hours <NUMBER>][last-days <NUMBER>][start-time <YYYY-MM-DDTHR:MIN:SEC>][end-time <YYYY-MM-DDTHR:MIN:SEC>][detail] tenant WORD vrf WORD external-l3 epg <epgName> name <epgName>
```

**Description:** EPG name to filter on

**Syntax:**

|                        |   |
|------------------------|---|
| <i>WORD</i>            | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i>            | Name of the VRF to filter on (Max Size 64)    |
| <i>&lt;epgName&gt;</i> | Name of the EPG to filter on                  |
| <i>&lt;epgName&gt;</i> | Name of the EPG to filter on                  |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD external-l3 epg <epgName> name <epgName>
```

## show events tenant vrf external-l3 epg name detail

**show events** [*code* <event-code>] [*id* <event-ID>] [*cause* <event-value>] [*last-minutes* <NUMBER>] [*last-hours* <NUMBER>] [*last-days* <NUMBER>] [*start-time* <YYYY-MM-DDTHR:MIN:SEC>] [*end-time* <YYYY-MM-DDTHR:MIN:SEC>] [*detail*] *tenant* **WORD** *vrf* **WORD** *external-l3 epg* <epgName> *name* <epgName> **detail**

**Description:** external-l3 epg in detail with operational status

### Syntax:

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |
| <epgName>   | Name of the EPG to filter on                  |
| <epgName>   | Name of the EPG to filter on                  |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD external-l3 epg <epgName>
name <epgName> detail
```

## show events tenant vrf external-l3 interfaces

**show events** [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant **WORD** vrf **WORD** external-l3 interfaces

**Description:** Show tenant <tenant> vrf <vrf> external l3 interfaces

### Syntax:

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD external-l3 interfaces
```

## show events tenant vrf external-l3 interfaces detail

**show events** [**code** <event-code>] [**id** <event-ID>] [**cause** <event-value>] [**last-minutes** <NUMBER>] [**last-hours** <NUMBER>] [**last-days** <NUMBER>] [**start-time** <YYYY-MM-DDTHR:MIN:SEC>] [**end-time** <YYYY-MM-DDTHR:MIN:SEC>] [**detail**] **tenant** **WORD** **vrf** **WORD** **external-l3** **interfaces** **detail**

**Description:** Show interfaces details

### Syntax:

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD external-l3 interfaces
detail
```



## show events tenant vrf external-l3 ospf

**show events** [*code* <event-code>] [*id* <event-ID>] [*cause* <event-value>] [*last-minutes* <NUMBER>] [*last-hours* <NUMBER>] [*last-days* <NUMBER>] [*start-time* <YYYY-MM-DDTHR:MIN:SEC>] [*end-time* <YYYY-MM-DDTHR:MIN:SEC>] [*detail*] **tenant** *WORD* **vrf** *WORD* **external-l3 ospf**

**Description:** Show command for IPv4 and IPv6 external l3 OSPF configuration

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD external-l3 ospf
```

# show events tenant vrf external-l3 ospf detail

**show events** [**code** <event-code>] [**id** <event-ID>] [**cause** <event-value>] [**last-minutes** <NUMBER>] [**last-hours** <NUMBER>] [**last-days** <NUMBER>] [**start-time** <YYYY-MM-DDTHR:MIN:SEC>] [**end-time** <YYYY-MM-DDTHR:MIN:SEC>] [**detail**] **tenant** **WORD** **vrf** **WORD** **external-l3 ospf detail**

**Description:** Show internal details

## Syntax:

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

## Command Path:

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD external-l3 ospf detail
```

## show events tenant vrf external-l3 route-map

**show events** [*code* <event-code>] [*id* <event-ID>] [*cause* <event-value>] [*last-minutes* <NUMBER>] [*last-hours* <NUMBER>] [*last-days* <NUMBER>] [*start-time* <YYYY-MM-DDTHR:MIN:SEC>] [*end-time* <YYYY-MM-DDTHR:MIN:SEC>] [*detail*] **tenant** *WORD* **vrf** *WORD* **external-l3** **route-map** [*name* <l3out name>]

**Description:** Show command for external-l3 route-map

### Syntax:

|              |   |
|--------------|---|
| <i>WORD</i>  | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i>  | Name of the VRF to filter on (Max Size 64)    |
| <l3out name> | (Optional) Name of the route-map to filter on |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD external-l3 route-map [name
<l3out name>]
```

## show events tenant vrf external-l3 route-map detail

**show events** [*code* <event-code>] [*id* <event-ID>] [*cause* <event-value>] [*last-minutes* <NUMBER>] [*last-hours* <NUMBER>] [*last-days* <NUMBER>] [*start-time* <YYYY-MM-DDTHR:MIN:SEC>] [*end-time* <YYYY-MM-DDTHR:MIN:SEC>] [*detail*] **tenant** *WORD* **vrf** *WORD* **external-l3** **route-map** [*name* <l3out name>] **detail**

**Description:** Show external-l3 route-map in detail with operational status

### Syntax:

|              |   |
|--------------|---|
| <i>WORD</i>  | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i>  | Name of the VRF to filter on (Max Size 64)    |
| <l3out name> | (Optional) Name of the route-map to filter on |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD external-l3 route-map [name
<l3out name>] detail
```

## show events tenant vrf external-l3 scale

**show events** [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant **WORD** vrf **WORD** external-l3 scale

**Description:** scale command

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD external-l3 scale
```

## show events tenant vrf external-l3 scale detail

**show events** [**code** <event-code>] [**id** <event-ID>] [**cause** <event-value>] [**last-minutes** <NUMBER>] [**last-hours** <NUMBER>] [**last-days** <NUMBER>] [**start-time** <YYYY-MM-DDTHR:MIN:SEC>] [**end-time** <YYYY-MM-DDTHR:MIN:SEC>] [**detail**] **tenant** **WORD** **vrf** **WORD** **external-l3** **scale** **detail**

**Description:** Show scale details

### Syntax:

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD external-l3 scale detail
```

## show events tenant vrf external-l3 static-route

**show events** [*code* <event-code>] [*id* <event-ID>] [*cause* <event-value>] [*last-minutes* <NUMBER>] [*last-hours* <NUMBER>] [*last-days* <NUMBER>] [*start-time* <YYYY-MM-DDTHR:MIN:SEC>] [*end-time* <YYYY-MM-DDTHR:MIN:SEC>] [*detail*] tenant **WORD** vrf **WORD** external-l3 static-route

**Description:** Show command for external-l3 static routes

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD external-l3 static-route
```

## show events tenant vrf external-l3 static-route detail

**show events** [**code** <event-code>] [**id** <event-ID>] [**cause** <event-value>] [**last-minutes** <NUMBER>] [**last-hours** <NUMBER>] [**last-days** <NUMBER>] [**start-time** <YYYY-MM-DDTHR:MIN:SEC>] [**end-time** <YYYY-MM-DDTHR:MIN:SEC>] [**detail**] **tenant** **WORD** **vrf** **WORD** **external-l3** **static-route** **detail**

**Description:** static-route in detail with operational status

### Syntax:

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD external-l3 static-route
detail
```



## show events tenant vrf external-l3 static-route node

**show events** [*code* <event-code>] [*id* <event-ID>] [*cause* <event-value>] [*last-minutes* <NUMBER>] [*last-hours* <NUMBER>] [*last-days* <NUMBER>] [*start-time* <YYYY-MM-DDTHR:MIN:SEC>] [*end-time* <YYYY-MM-DDTHR:MIN:SEC>] [*detail*] tenant **WORD** vrf **WORD** external-l3 static-route node

**Description:** node to filter on

### Syntax:

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |
| <i>arg</i>  | Leaf Range or Leaf Name List                  |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD external-l3 static-route
node
```

## show events tenant vrf external-l3 static-route node detail

**show events** [*code* <event-code>] [*id* <event-ID>] [*cause* <event-value>] [*last-minutes* <NUMBER>] [*last-hours* <NUMBER>] [*last-days* <NUMBER>] [*start-time* <YYYY-MM-DDTHR:MIN:SEC>] [*end-time* <YYYY-MM-DDTHR:MIN:SEC>] [*detail*] tenant *WORD* vrf *WORD* external-l3 static-route node detail

**Description:** static-route in detail with operational status

### Syntax:

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |
| <i>arg</i>  | Leaf Range or Leaf Name List                  |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD external-l3 static-route
node detail
```

## show events tenant vrf multicast

**show events** [*code* <event-code>] [*id* <event-ID>] [*cause* <event-value>] [*last-minutes* <NUMBER>] [*last-hours* <NUMBER>] [*last-days* <NUMBER>] [*start-time* <YYYY-MM-DDTHR:MIN:SEC>] [*end-time* <YYYY-MM-DDTHR:MIN:SEC>] [*detail*] **tenant** *WORD* **vrf** *WORD* **multicast**

**Description:** Show multicast configuration per VRF

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show events [code <event-code>] [id <event-ID>] [cause <event-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD multicast
```

# show external-l2 epg

**show external-l2 epg**

**Description:** Show command for external-l2 epgs

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l2 epg
```

# show external-l2 epg name

**show external-l2 epg name WORD**

**Description:** EPG name to filter on

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Name of the EPG to filter on (Max Size 64) |
|-------------|--|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l2 epg name WORD
```

# show external-l2 epg tenant

**show external-l2 epg tenant WORD**

**Description:** tenant to filter on

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
|-------------|---|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l2 epg tenant WORD
```

# show external-l3 bgp

**show external-l3 bgp**

**Description:** Show command for BGP peers

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 bgp
```

# show external-l3 bgp tenant

**show external-l3 bgp tenant <WORD>**

**Description:** tenant to filter on

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
|-------------|---|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 bgp tenant <WORD>
```



# show external-l3 bgp tenant vrf

**show external-l3 bgp tenant <WORD> vrf WORD**

**Description:** vrf to filter on

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 bgp tenant <WORD> vrf WORD
```

# show external-l3 bgp tenant vrf node

**show external-l3 bgp tenant <WORD> vrf WORD node <101-4000>**

**Description:** node to filter on

**Syntax:**

|                         |   |
|-------------------------|---|
| <i>WORD</i>             | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i>             | Name of the VRF to filter on (Max Size 64)    |
| <i>&lt;101-4000&gt;</i> | Leaf Range or Leaf Name List                  |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 bgp tenant <WORD> vrf WORD node <101-4000>
```

# show external-l3 eigrp

**show external-l3 eigrp**

**Description:** Show command for external-l3 eigrp

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 eigrp
```

# show external-l3 eigrp detail

**show external-l3 eigrp detail**

**Description:** Show interanl details

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 eigrp detail
```

# show external-l3 eigrp node

**show external-l3 eigrp node <101-4000>**

**Description:** Node(s) to filter on

**Syntax:**

|                         |                              |
|-------------------------|------------------------------|
| <i>&lt;101-4000&gt;</i> | Node Range or Node Name List |
|-------------------------|------------------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 eigrp node <101-4000>
```

# show external-l3 eigrp node detail

**show external-l3 eigrp node <101-4000> detail**

**Description:** Show interanl details

**Syntax:**

|            |                              |
|------------|------------------------------|
| <101-4000> | Node Range or Node Name List |
|------------|------------------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 eigrp node <101-4000> detail
```

# show external-l3 eigrp tenant

**show external-l3 eigrp tenant <WORD>**

**Description:** Tenant(s) to filter on

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
|-------------|---|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 eigrp tenant <WORD>
```

# show external-l3 eigrp tenant detail

**show external-l3 eigrp tenant <WORD> detail**

**Description:** Show interanl details

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
|-------------|---|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 eigrp tenant <WORD> detail
```



# show external-l3 eigrp tenant vrf

**show external-l3 eigrp tenant <WORD> vrf WORD**

**Description:** Vrf(s) to filter on

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF(s) to filter on (Max Size 64) |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 eigrp tenant <WORD> vrf WORD
```

# show external-l3 eigrp tenant vrf detail

**show external-l3 eigrp tenant <WORD> vrf WORD detail**

**Description:** Show interanl details

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF(s) to filter on (Max Size 64) |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 eigrp tenant <WORD> vrf WORD detail
```

# show external-l3 eigrp tenant vrf node

**show external-l3 eigrp tenant <WORD> vrf WORD node <101-4000>**

**Description:** Node(s) to filter on

**Syntax:**

|                         |   |
|-------------------------|---|
| <i>WORD</i>             | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i>             | Name of the VRF(s) to filter on (Max Size 64) |
| <i>&lt;101-4000&gt;</i> | Node Range or Node Name List                  |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 eigrp tenant <WORD> vrf WORD node <101-4000>
```

## show external-l3 eigrp tenant vrf node detail

**show external-l3 eigrp tenant <WORD> vrf WORD node <101-4000> detail**

**Description:** Show interanl details

**Syntax:**

|                         |   |
|-------------------------|---|
| <i>WORD</i>             | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i>             | Name of the VRF(s) to filter on (Max Size 64) |
| <i>&lt;101-4000&gt;</i> | Node Range or Node Name List                  |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 eigrp tenant <WORD> vrf WORD node <101-4000> detail
```

# show external-l3 epg

**show external-l3 epg**

**Description:** Show command for external-l3 epgs

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 epg
```

# show external-l3 epg detail

**show external-l3 epg detail**

**Description:** external-l3 epg in detail with operational status

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 epg detail
```

# show external-l3 epg name

**show external-l3 epg name <epgName>**

**Description:** EPG name to filter on

**Syntax:**

|                        |                              |
|------------------------|------------------------------|
| <i>&lt;epgName&gt;</i> | Name of the EPG to filter on |
|------------------------|------------------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 epg name <epgName>
```

# show external-l3 epg name detail

**show external-l3 epg name <epgName> detail**

**Description:** external-l3 epg in detail with operational status

**Syntax:**

|                        |                              |
|------------------------|------------------------------|
| <i>&lt;epgName&gt;</i> | Name of the EPG to filter on |
|------------------------|------------------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 epg name <epgName> detail
```



# show external-l3 epg tenant

**show external-l3 epg tenant <WORD>**

**Description:** tenant to filter on

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
|-------------|---|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 epg tenant <WORD>
```

# show external-l3 epg tenant detail

**show external-l3 epg tenant <WORD> detail**

**Description:** external-l3 epg in detail with operational status

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
|-------------|---|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 epg tenant <WORD> detail
```

# show external-l3 epg tenant vrf

**show external-l3 epg tenant <WORD> vrf WORD**

**Description:** vrf to filter on

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 epg tenant <WORD> vrf WORD
```

# show external-l3 epg tenant vrf detail

**show external-l3 epg tenant <WORD> vrf WORD detail**

**Description:** external-l3 epg in detail with operational status

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 epg tenant <WORD> vrf WORD detail
```

# show external-l3 interfaces

**show external-l3 interfaces**

**Description:** Show command for external-l3 interfaces

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 interfaces
```

# show external-l3 interfaces detail

**show external-l3 interfaces detail**

**Description:** Show interfaces details

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 interfaces detail
```

# show external-l3 interfaces node

**show external-l3 interfaces node** <101-4000>

**Description:** Node(s) to filter on

**Syntax:**

|            |                              |
|------------|------------------------------|
| <101-4000> | Node Range or Node Name List |
|------------|------------------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 interfaces node <101-4000>
```

# show external-l3 interfaces node detail

**show external-l3 interfaces node <101-4000> detail**

**Description:** Show interfaces details

**Syntax:**

|                               |                              |
|-------------------------------|------------------------------|
| <code>&lt;101-4000&gt;</code> | Node Range or Node Name List |
|-------------------------------|------------------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 interfaces node <101-4000> detail
```



# show external-l3 interfaces tenant

**show external-l3 interfaces tenant <WORD>**

**Description:** Tenant(s) to filter on

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
|-------------|---|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 interfaces tenant <WORD>
```

# show external-l3 interfaces tenant detail

**show external-l3 interfaces tenant <WORD> detail**

**Description:** Show interfaces details

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
|-------------|---|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 interfaces tenant <WORD> detail
```

# show external-l3 interfaces tenant vrf

**show external-l3 interfaces tenant <WORD> vrf WORD**

**Description:** Vrf(s) to filter on

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF(s) to filter on (Max Size 64) |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 interfaces tenant <WORD> vrf WORD
```

# show external-l3 interfaces tenant vrf detail

**show external-l3 interfaces tenant** <WORD> vrf WORD detail

**Description:** Show interfaces details

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF(s) to filter on (Max Size 64) |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 interfaces tenant <WORD> vrf WORD detail
```

## show external-l3 interfaces tenant vrf node

**show external-l3 interfaces tenant <WORD> vrf WORD node <101-4000>**

**Description:** Node(s) to filter on

**Syntax:**

|                         |   |
|-------------------------|---|
| <i>WORD</i>             | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i>             | Name of the VRF(s) to filter on (Max Size 64) |
| <i>&lt;101-4000&gt;</i> | Node Range or Node Name List                  |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 interfaces tenant <WORD> vrf WORD node <101-4000>
```

# show external-l3 interfaces tenant vrf node detail

**show external-l3 interfaces tenant <WORD> vrf WORD node <101-4000> detail**

**Description:** Show interfaces details

**Syntax:**

|                         |   |
|-------------------------|---|
| <i>WORD</i>             | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i>             | Name of the VRF(s) to filter on (Max Size 64) |
| <i>&lt;101-4000&gt;</i> | Node Range or Node Name List                  |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 interfaces tenant <WORD> vrf WORD node <101-4000> detail
```

# show external-l3 ospf

**show external-l3 ospf**

**Description:** Show command for external-l3 ospf

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 ospf
```

# show external-l3 ospf detail

**show external-l3 ospf detail**

**Description:** Show internal details

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 ospf detail
```



# show external-l3 ospf node

**show external-l3 ospf node** <101-4000>

**Description:** Node(s) to filter on

**Syntax:**

|            |                              |
|------------|------------------------------|
| <101-4000> | Node Range or Node Name List |
|------------|------------------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 ospf node <101-4000>
```

# show external-l3 ospf node detail

**show external-l3 ospf node <101-4000> detail**

**Description:** Show internal details

**Syntax:**

|            |                              |
|------------|------------------------------|
| <101-4000> | Node Range or Node Name List |
|------------|------------------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 ospf node <101-4000> detail
```

# show external-l3 ospf tenant

**show external-l3 ospf tenant <WORD>**

**Description:** Tenant(s) to filter on

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
|-------------|---|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 ospf tenant <WORD>
```

# show external-l3 ospf tenant detail

**show external-l3 ospf tenant <WORD> detail**

**Description:** Show internal details

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
|-------------|---|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 ospf tenant <WORD> detail
```

# show external-l3 ospf tenant vrf

**show external-l3 ospf tenant <WORD> vrf WORD**

**Description:** Vrf(s) to filter on

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF(s) to filter on (Max Size 64) |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 ospf tenant <WORD> vrf WORD
```

# show external-l3 ospf tenant vrf detail

**show external-l3 ospf tenant <WORD> vrf WORD detail**

**Description:** Show internal details

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF(s) to filter on (Max Size 64) |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 ospf tenant <WORD> vrf WORD detail
```

# show external-l3 ospf tenant vrf node

**show external-l3 ospf tenant <WORD> vrf WORD node <101-4000>**

**Description:** Node(s) to filter on

**Syntax:**

|                         |   |
|-------------------------|---|
| <i>WORD</i>             | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i>             | Name of the VRF(s) to filter on (Max Size 64) |
| <i>&lt;101-4000&gt;</i> | Node Range or Node Name List                  |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 ospf tenant <WORD> vrf WORD node <101-4000>
```

# show external-l3 ospf tenant vrf node detail

**show external-l3 ospf tenant <WORD> vrf WORD node <101-4000> detail**

**Description:** Show internal details

**Syntax:**

|                         |   |
|-------------------------|---|
| <i>WORD</i>             | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i>             | Name of the VRF(s) to filter on (Max Size 64) |
| <i>&lt;101-4000&gt;</i> | Node Range or Node Name List                  |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 ospf tenant <WORD> vrf WORD node <101-4000> detail
```



# show external-l3 route-map

**show external-l3 route-map**

**Description:** Show command for external-l3 route-map

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 route-map
```

# show external-l3 route-map detail

**show external-l3 route-map detail**

**Description:** Route-map in detail with operational status

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 route-map detail
```

# show external-l3 route-map name

**show external-l3 route-map name** <l3out name>

**Description:** Route-map name to filter on

**Syntax:**

|              |                                    |
|--------------|------------------------------------|
| <l3out name> | Name of the route-map to filter on |
|--------------|------------------------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 route-map name <l3out name>
```

# show external-l3 route-map name detail

**show external-l3 route-map name <l3out name> detail**

**Description:** Route-map in detail with operational status

**Syntax:**

|                           |                                    |
|---------------------------|------------------------------------|
| <i>&lt;l3out name&gt;</i> | Name of the route-map to filter on |
|---------------------------|------------------------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 route-map name <l3out name> detail
```

# show external-l3 route-map tenant

**show external-l3 route-map tenant <WORD>**

**Description:** tenant to filter on

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
|-------------|---|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 route-map tenant <WORD>
```

# show external-l3 route-map tenant detail

**show external-l3 route-map tenant <WORD> detail**

**Description:** Route-map in detail with operational status

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
|-------------|---|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 route-map tenant <WORD> detail
```

# show external-l3 route-map tenant vrf

**show external-l3 route-map tenant <WORD> vrf WORD**

**Description:** vrf to filter on

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 route-map tenant <WORD> vrf WORD
```

# show external-l3 route-map tenant vrf detail

**show external-l3 route-map tenant <WORD> vrf WORD detail**

**Description:** Route-map in detail with operational status

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 route-map tenant <WORD> vrf WORD detail
```



# show external-l3 route-map tenant vrf node

**show external-l3 route-map tenant <WORD> vrf WORD node**

**Description:** node to filter on

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |
| <i>arg</i>  | Leaf Range or Leaf Name List                  |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 route-map tenant <WORD> vrf WORD node
```

## show external-l3 route-map tenant vrf node detail

**show external-l3 route-map tenant <WORD> vrf WORD node detail**

**Description:** Route-map in detail with operational status

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |
| <i>arg</i>  | Leaf Range or Leaf Name List                  |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 route-map tenant <WORD> vrf WORD node detail
```

# show external-l3 scale

**show external-l3 scale**

**Description:** Show command for external-l3 scale

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 scale
```

# show external-l3 scale detail

**show external-l3 scale detail**

**Description:** Show scale details

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 scale detail
```

# show external-l3 scale node

**show external-l3 scale node** <101-4000>

**Description:** Node(s) to filter on

**Syntax:**

|            |                              |
|------------|------------------------------|
| <101-4000> | Node Range or Node Name List |
|------------|------------------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 scale node <101-4000>
```

## show external-l3 scale node detail

**show external-l3 scale node <101-4000> detail**

**Description:** Show scale details

**Syntax:**

|            |                              |
|------------|------------------------------|
| <101-4000> | Node Range or Node Name List |
|------------|------------------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 scale node <101-4000> detail
```

# show external-l3 scale tenant

**show external-l3 scale tenant <WORD>**

**Description:** Tenant(s) to filter on

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
|-------------|---|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 scale tenant <WORD>
```

## show external-l3 scale tenant detail

**show external-l3 scale tenant <WORD> detail**

**Description:** Show scale details

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
|-------------|---|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 scale tenant <WORD> detail
```



# show external-l3 scale tenant vrf

**show external-l3 scale tenant <WORD> vrf WORD**

**Description:** Vrf(s) to filter on

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF(s) to filter on (Max Size 64) |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 scale tenant <WORD> vrf WORD
```

# show external-l3 scale tenant vrf detail

**show external-l3 scale tenant <WORD> vrf WORD detail**

**Description:** Show scale details

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF(s) to filter on (Max Size 64) |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 scale tenant <WORD> vrf WORD detail
```

# show external-l3 scale tenant vrf node

**show external-l3 scale tenant <WORD> vrf WORD node <101-4000>**

**Description:** Node(s) to filter on

**Syntax:**

|                         |   |
|-------------------------|---|
| <i>WORD</i>             | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i>             | Name of the VRF(s) to filter on (Max Size 64) |
| <i>&lt;101-4000&gt;</i> | Node Range or Node Name List                  |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 scale tenant <WORD> vrf WORD node <101-4000>
```

# show external-l3 scale tenant vrf node detail

**show external-l3 scale tenant <WORD> vrf WORD node <101-4000> detail**

**Description:** Show scale details

**Syntax:**

|                         |   |
|-------------------------|---|
| <i>WORD</i>             | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i>             | Name of the VRF(s) to filter on (Max Size 64) |
| <i>&lt;101-4000&gt;</i> | Node Range or Node Name List                  |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 scale tenant <WORD> vrf WORD node <101-4000> detail
```

# show external-l3 static-route

**show external-l3 static-route**

**Description:** Show command for external-l3 static routes

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 static-route
```

# show external-l3 static-route detail

**show external-l3 static-route detail**

**Description:** static-route in detail with operational status

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 static-route detail
```

# show external-l3 static-route node

**show external-l3 static-route node**

**Description:** node to filter on

**Syntax:**

|            |                              |
|------------|------------------------------|
| <i>arg</i> | Leaf Range or Leaf Name List |
|------------|------------------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 static-route node
```

# show external-l3 static-route node detail

## show external-l3 static-route node detail

**Description:** static-route in detail with operational status

**Syntax:**

|            |                              |
|------------|------------------------------|
| <i>arg</i> | Leaf Range or Leaf Name List |
|------------|------------------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 static-route node detail
```



## show external-l3 static-route tenant

**show external-l3 static-route tenant <WORD>**

**Description:** tenant to filter on

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
|-------------|---|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 static-route tenant <WORD>
```

# show external-l3 static-route tenant detail

**show external-l3 static-route tenant <WORD> detail**

**Description:** static-route in detail with operational status

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
|-------------|---|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 static-route tenant <WORD> detail
```

## show external-l3 static-route tenant vrf

**show external-l3 static-route tenant <WORD> vrf WORD**

**Description:** vrf to filter on

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 static-route tenant <WORD> vrf WORD
```

# show external-l3 static-route tenant vrf detail

**show external-l3 static-route tenant <WORD> vrf WORD detail**

**Description:** static-route in detail with operational status

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 static-route tenant <WORD> vrf WORD detail
```

# show external-l3 static-route tenant vrf node

**show external-l3 static-route tenant <WORD> vrf WORD node**

**Description:** node to filter on

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |
| <i>arg</i>  | Leaf Range or Leaf Name List                  |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 static-route tenant <WORD> vrf WORD node
```

# show external-l3 static-route tenant vrf node detail

**show external-l3 static-route tenant <WORD> vrf WORD node detail**

**Description:** static-route in detail with operational status

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |
| <i>arg</i>  | Leaf Range or Leaf Name List                  |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show external-l3 static-route tenant <WORD> vrf WORD node detail
```

# show fabric-recovery checker

**show fabric-recovery checker moDn [detail]**

**Description:** To show the recovery checker status

**Syntax:**

|             |                   |
|-------------|-------------------|
| <i>moDn</i> | Optional Dn       |
| detail      | (Optional) detail |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show fabric-recovery checker moDn [detail]
```

# show fabric-recovery status

**show fabric-recovery status**

**Description:** Show fabric recovery status

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show fabric-recovery status
```



# show faults

**show faults** [history] [code <fault-code>] [id <fault-ID>] [ack <yes/no>] [lc <lc-state>] [severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] <scope>

**Description:** Show fault information

## Syntax:

|                                       |  |
|---------------------------------------|--|
| history                               | (Optional) Historical information                                      |
| <fault-code>                          | (Optional) Fault code  |
| <fault-ID>                            | (Optional) Fault ID  |
| <yes/no>                              | (Optional) Acknowledgment status                                       |
| <lc-state>                            | (Optional) Lifecycle state   |
| <severity-value>                      | (Optional) Severity  |
| <severity-value>                      | (Optional) Minimum severity  |
| <fault-type>                          | (Optional) Type  |
| <fault-value>                         | (Optional) Cause   |
| last-minutes <num-minutes>            | (Optional) Fault activity in time interval. Number range from=1 to=59  |
| last-hours <num-hours>                | (Optional) Fault activity in time interval. Number range from=1 to=23  |
| last-days <num-days>                  | (Optional) Fault activity in time interval. Number range from=1 to=999 |
| start-time<br><YYYY-MM-DDTHR:MIN:SEC> | (Optional) Fault activity in time interval                             |
| end-time<br><YYYY-MM-DDTHR:MIN:SEC>   | (Optional) Fault activity in time interval                             |
| detail                                | (Optional) Detailed faults information                                 |
| <scope>                               | command scope  |

**Command Mode:** exec : Exec Mode

## Command Path:

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes/no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail]
<scope>
```

## show faults controller

```
show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>]
[min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours
<NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] controller
```

**Description:** Show controller information

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] controller
```

## show faults controller detail

**show faults** [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] controller detail [id <node-id>]

**Description:** Detailed controller information

**Syntax:**

|                |                                   |
|----------------|-----------------------------------|
| <i>node-id</i> | (Optional) Optional Serial number |
|----------------|-----------------------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] controller detail [id
<node-id>]
```

## show faults l4l7-cluster

**show faults** [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] l4l7-cluster [tenant <Tenant Name>] [cluster <Device Cluster Name>]

**Description:** Show L4 L7 Device information

### Syntax:

|                            |                           |
|----------------------------|---------------------------|
| <i>Tenant Name</i>         | (Optional) Name of Tenant |
| <i>Device Cluster Name</i> | (Optional) Name of Device |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] l4l7-cluster [tenant
<Tenant Name>] [cluster <Device Cluster Name>]
```

# show faults l4l7-graph

**show faults** [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] l4l7-graph [tenant <Tenant Name>] [graph <Graph Name>]

**Description:** Show L4 L7 Graph information

**Syntax:**

|               |                           |
|---------------|---------------------------|
| <Tenant Name> | (Optional) Name of Tenant |
| <Graph Name>  | (Optional) Name of Graph  |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
 [severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
 <fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
 <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] l4l7-graph [tenant
 <Tenant Name>] [graph <Graph Name>]
```

## show faults leaf

```
show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>]
[min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours
<NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId>
```

**Description:** Show command for leaf

**Syntax:**

|          |         |
|----------|---------|
| <leafId> | Leaf id |
|----------|---------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId>
```

# show faults leaf fex

**show faults** [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> fex <fexNum>

**Description:** Show extended chassis information

**Syntax:**

|          |                      |
|----------|----------------------|
| <leafId> | Leaf id              |
| <fexNum> | pls enter fex number |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> fex
<fexNum>
```

## show faults leaf fex module

```
show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours
<NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> fex <fexNum> module <lcSlot>
```

**Description:** Show inventory module information

### Syntax:

|          |                                |
|----------|--------------------------------|
| <leafId> | Leaf id                        |
| <fexNum> | pls enter fex number           |
| <lcSlot> | please enter the module number |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> fex
<fexNum> module <lcSlot>
```



## show faults leaf interface ethernet

```
show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>]
[min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours
<NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> interface ethernet <phyInt>
```

**Description:** Ethernet IEEE 802.3z

### Syntax:

|          |  |
|----------|--|
| <leafId> | Leaf id                                      |
| <phyInt> | <slot or chassis-number/port or slot number> |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> interface
ethernet <phyInt>
```

## show faults leaf interface fc

```
show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>]
[min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours
<NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> interface fc <phyInt>
```

**Description:** Fibre Channel Protocol

### Syntax:

|          |  |
|----------|--|
| <leafId> | Leaf id                                      |
| <phyInt> | <slot or chassis-number/port or slot number> |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> interface
fc <phyInt>
```

# show faults leaf interface fcportchannel

```
show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>]
[min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours
<NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> interface fcportchannel <portChan>
```

**Description:** FC Port channel interface

## Syntax:

|            |                       |
|------------|-----------------------|
| <leafId>   | Leaf id               |
| <portChan> | <Port channel number> |

**Command Mode:** exec : Exec Mode

## Command Path:

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> interface
fcportchannel <portChan>
```

## show faults leaf interface l3instance

```
show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>]
[min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours
<NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> interface l3instance <l3Inst>
```

**Description:** L3 instance

**Syntax:**

|          |                      |
|----------|----------------------|
| <leafId> | Leaf id              |
| <l3Inst> | <L3 instance number> |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> interface
l3instance <l3Inst>
```

## show faults leaf interface mgmt

```
show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>]
[min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours
<NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> interface mgmt <mgmtPort>
```

**Description:** Management interface

**Syntax:**

|            |                               |
|------------|-------------------------------|
| <leafId>   | Leaf id                       |
| <mgmtPort> | <Management interface number> |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> interface
mgmt <mgmtPort>
```

# show faults leaf interface portchannel

```
show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>]
[min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours
<NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> interface portchannel <portChan>
```

**Description:** Port channel interface

## Syntax:

|            |                       |
|------------|-----------------------|
| <leafId>   | Leaf id               |
| <portChan> | <Port channel number> |

**Command Mode:** exec : Exec Mode

## Command Path:

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> interface
portchannel <portChan>
```

# show faults leaf interface tunnel

```
show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>]
[min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours
<NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> interface tunnel <tunnelPort>
```

**Description:** Tunnel Interface

**Syntax:**

|              |                           |
|--------------|---------------------------|
| <leafId>     | Leaf id                   |
| <tunnelPort> | <Tunnel interface number> |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> interface
tunnel <tunnelPort>
```

## show faults leaf interface vethernet

```
show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours
<NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> interface vethernet <phyInt>
```

**Description:** vethernet ID

**Syntax:**

|          |  |
|----------|--|
| <leafId> | Leaf id                                      |
| <phyInt> | <slot or chassis-number/port or slot number> |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> interface
vethernet <phyInt>
```



## show faults leaf inventory chassis

```
show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>]
[min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours
<NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> inventory chassis
```

**Description:** Show inventory chassis information

### Syntax:

|          |         |
|----------|---------|
| <leafId> | Leaf id |
|----------|---------|

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> inventory
chassis
```

# show faults leaf inventory fans

```
show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours
<NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> inventory fans <ftSlot>
```

**Description:** Show inventory fan information

## Syntax:

|          |                           |
|----------|---------------------------|
| <leafId> | Leaf id                   |
| <ftSlot> | pls enter fan tray number |

**Command Mode:** exec : Exec Mode

## Command Path:

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> inventory
fans <ftSlot>
```

# show faults leaf inventory module

```
show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>]
[min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours
<NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> inventory module <lcSlot>
```

**Description:** Show inventory module information

**Syntax:**

|          |                                |
|----------|--------------------------------|
| <leafId> | Leaf id                        |
| <lcSlot> | please enter the module number |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> inventory
module <lcSlot>
```

# show faults leaf inventory module fabricport

```
show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours
<NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> inventory module <lcSlot> fabricport <fabPort>
```

**Description:** Show information for fabric port

## Syntax:

|           |                                  |
|-----------|----------------------------------|
| <leafId>  | Leaf id                          |
| <lcSlot>  | please enter the module number   |
| <fabPort> | pls enter the fabric port number |

**Command Mode:** exec : Exec Mode

## Command Path:

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> inventory
module <lcSlot> fabricport <fabPort>
```

## show faults leaf inventory module leafport

```
show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>]
[min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours
<NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> inventory module <lcSlot> leafport <leafPort>
```

**Description:** Show information for leaf port

**Syntax:**

|            |                                |
|------------|--------------------------------|
| <leafId>   | Leaf id                        |
| <lcSlot>   | please enter the module number |
| <leafPort> | pls enter the leaf port number |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> inventory
module <lcSlot> leafport <leafPort>
```

# show faults leaf inventory powersupply

```
show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours
<NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> inventory powersupply <psuSlot>
```

**Description:** Show inventory power supply information

## Syntax:

|           |                                  |
|-----------|----------------------------------|
| <leafId>  | Leaf id                          |
| <psuSlot> | pls enter the powersupply number |

**Command Mode:** exec : Exec Mode

## Command Path:

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> inventory
powersupply <psuSlot>
```

# show faults leaf inventory supervisor

```
show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>]
[min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours
<NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> inventory supervisor <supMod>
```

**Description:** Show information for supervisor module

**Syntax:**

|          |  |
|----------|--|
| <leafId> | Leaf id                                |
| <supMod> | pls enter the supervisor module number |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> inventory
supervisor <supMod>
```

# show faults leaf protocol

```
show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>]
[min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours
<NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> protocol <protName>
```

**Description:** Show command for protocol

## Syntax:

|            |               |
|------------|---------------|
| <leafId>   | Leaf id       |
| <protName> | Protocol name |

**Command Mode:** exec : Exec Mode

## Command Path:

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> protocol
<protName>
```



## show faults leaf vpc

**show faults** [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> vpc <vpcPort>

**Description:** Virtual port channel information

### Syntax:

|           |                                       |
|-----------|---------------------------------------|
| <leafId>  | Leaf id                               |
| <vpcPort> | pls enter virtual port channel number |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
 [severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
 <fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
 <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> vpc
 <vpcPort>
```

## show faults leaf vrf

```
show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours
<NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> vrf <vrfPort>
```

**Description:** Vrf information

### Syntax:

|           |                    |
|-----------|--------------------|
| <leafId>  | Leaf id            |
| <vrfPort> | pls enter vrf name |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId> vrf
<vrfPort>
```

## show faults microsoft domain

**show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] microsoft domain**

**Description:** Show Microsoft domain information

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] microsoft domain
```

## show faults microsoft domain name

```
show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours
<NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] microsoft domain name <WORD>
```

**Description:** Microsoft domain name

**Syntax:**

|             |                       |
|-------------|-----------------------|
| <i>WORD</i> | Microsoft domain name |
|-------------|-----------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] microsoft domain name
<WORD>
```

## show faults microsoft domain name hyperv

**show faults** [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] microsoft domain name <WORD> hyperv <WORD>

**Description:** Show Microsoft Hypervisor information

### Syntax:

|             |                       |
|-------------|-----------------------|
| <i>WORD</i> | Microsoft domain name |
| <i>WORD</i> | HyperV hostname       |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] microsoft domain name
<WORD> hyperv <WORD>
```

## show faults microsoft domain name port-group

**show faults** [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] microsoft domain name <WORD> port-group

**Description:** Show Microsoft port group information

**Syntax:**

|             |                       |
|-------------|-----------------------|
| <i>WORD</i> | Microsoft domain name |
|-------------|-----------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
  [severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] microsoft domain name
<WORD> port-group
```

## show faults microsoft domain name scvmm

**show faults** [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] microsoft domain name <WORD> scvmm <hostname|ip>

**Description:** Show Microsoft SCVMM information

**Syntax:**

|                            |                       |
|----------------------------|-----------------------|
| <i>WORD</i>                | Microsoft domain name |
| <i>&lt;hostname ip&gt;</i> | SCVMM hostname or IP  |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] microsoft domain name
<WORD> scvmm <hostname|ip>
```

## show faults microsoft domain name vm

**show faults** [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] microsoft domain name <WORD> vm

**Description:** Show Microsoft VM information

### Syntax:

|             |                       |
|-------------|-----------------------|
| <i>WORD</i> | Microsoft domain name |
|-------------|-----------------------|

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] microsoft domain name
<WORD> vm
```



## show faults microsoft domain name vm name

**show faults** [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] microsoft domain name <WORD> vm name <WORD>

**Description:** Show detailed Microsoft VM information

### Syntax:

|             |                       |
|-------------|-----------------------|
| <i>WORD</i> | Microsoft domain name |
| <i>WORD</i> | VM Name               |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] microsoft domain name
<WORD> vm name <WORD>
```

## show faults quota

```
show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>]
[min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours
<NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] quota
```

**Description:** Show Quotas Information

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] quota
```

## show faults redhat domain

**show faults** [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] redhat domain

**Description:** Show Redhat domain information

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
 [severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
 <fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
 <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] redhat domain
```

## show faults redhat domain name

**show faults** [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] redhat domain name <name>

**Description:** Redhat domain name

### Syntax:

|        |                    |
|--------|--------------------|
| <name> | Redhat domain name |
|--------|--------------------|

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
  [severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] redhat domain
name <name>
```

## show faults redhat domain name epg

**show faults** [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] redhat domain name <name> epg

**Description:** Show Redhat domain EPG details

**Syntax:**

|        |                    |
|--------|--------------------|
| <name> | Redhat domain name |
|--------|--------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] redhat domain name
<name> epg
```

## show faults redhat domain name rhev

**show faults** [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] redhat domain name <name> rhev <hostname|ip>

**Description:** RHEV ip or hostname

### Syntax:

|               |                     |
|---------------|---------------------|
| <name>        | Redhat domain name  |
| <hostname ip> | rhev hostname or IP |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] redhat domain name
<name> rhev <hostname|ip>
```

# show faults spine

**show faults** [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] spine <leafId>

**Description:** Show command for spine

**Syntax:**

|          |         |
|----------|---------|
| <leafId> | Leaf id |
|----------|---------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] spine <leafId>
```

## show faults spine interface ethernet

```
show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>]
[min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours
<NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] spine <leafId> interface ethernet <phyInt>
```

**Description:** Ethernet IEEE 802.3z

### Syntax:

|          |  |
|----------|--|
| <leafId> | Leaf id                                      |
| <phyInt> | <slot or chassis-number/port or slot number> |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] spine <leafId> interface
ethernet <phyInt>
```



# show faults spine interface l3instance

```
show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours
<NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] spine <leafId> interface l3instance <l3Inst>
```

**Description:** L3 instance

**Syntax:**

|          |                      |
|----------|----------------------|
| <leafId> | Leaf id              |
| <l3Inst> | <L3 instance number> |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] spine <leafId> interface
l3instance <l3Inst>
```

## show faults spine interface mgmt

```
show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>]
[min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours
<NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] spine <leafId> interface mgmt <mgmtPort>
```

**Description:** Management interface

**Syntax:**

|            |                               |
|------------|-------------------------------|
| <leafId>   | Leaf id                       |
| <mgmtPort> | <Management interface number> |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] spine <leafId> interface
mgmt <mgmtPort>
```

# show faults spine interface tunnel

```
show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>]
[min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours
<NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] spine <leafId> interface tunnel <tunnelPort>
```

**Description:** Tunnel Interface

**Syntax:**

|              |                           |
|--------------|---------------------------|
| <leafId>     | Leaf id                   |
| <tunnelPort> | <Tunnel interface number> |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] spine <leafId> interface
tunnel <tunnelPort>
```

## show faults spine inventory chassis

**show faults** [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] spine <leafId> inventory chassis

**Description:** Show inventory chassis information

### Syntax:

|          |         |
|----------|---------|
| <leafId> | Leaf id |
|----------|---------|

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] spine <leafId> inventory
chassis
```

## show faults spine inventory fabric

```
show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>]
[min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours
<NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] spine <leafId> inventory fabric <fcMod>
```

**Description:** Show information for fabric module

### Syntax:

|          |                                    |
|----------|------------------------------------|
| <leafId> | Leaf id                            |
| <fcMod>  | pls enter the fabric module number |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] spine <leafId> inventory
fabric <fcMod>
```

## show faults spine inventory fans

```
show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours
<NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] spine <leafId> inventory fans <ftSlot>
```

**Description:** Show inventory fan information

### Syntax:

|          |                           |
|----------|---------------------------|
| <leafId> | Leaf id                   |
| <ftSlot> | pls enter fan tray number |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] spine <leafId> inventory
fans <ftSlot>
```

# show faults spine inventory module

```
show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours
<NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] spine <leafId> inventory module <lcSlot>
```

**Description:** Show inventory module information

**Syntax:**

|          |                                |
|----------|--------------------------------|
| <leafId> | Leaf id                        |
| <lcSlot> | please enter the module number |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] spine <leafId> inventory
module <lcSlot>
```

# show faults spine inventory module fabricport

```
show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>]
[min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours
<NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] spine <leafId> inventory module <lcSlot> fabricport <fabPort>
```

**Description:** Show information for fabric port

## Syntax:

|           |                                  |
|-----------|----------------------------------|
| <leafId>  | Leaf id                          |
| <lcSlot>  | please enter the module number   |
| <fabPort> | pls enter the fabric port number |

**Command Mode:** exec : Exec Mode

## Command Path:

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] spine <leafId> inventory
module <lcSlot> fabricport <fabPort>
```



# show faults spine inventory powersupply

```
show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours
<NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] spine <leafId> inventory powersupply <psuSlot>
```

**Description:** Show inventory power supply information

**Syntax:**

|           |                                  |
|-----------|----------------------------------|
| <leafId>  | Leaf id                          |
| <psuSlot> | pls enter the powersupply number |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] spine <leafId> inventory
powersupply <psuSlot>
```

# show faults spine inventory supervisor

```
show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>]
[min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours
<NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] spine <leafId> inventory supervisor <supMod>
```

**Description:** Show information for supervisor module

## Syntax:

|          |  |
|----------|--|
| <leafId> | Leaf id                                |
| <supMod> | pls enter the supervisor module number |

**Command Mode:** exec : Exec Mode

## Command Path:

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] spine <leafId> inventory
supervisor <supMod>
```

## show faults spine inventory system

```
show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours
<NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] spine <leafId> inventory system <sysMod>
```

**Description:** Show information for system module

**Syntax:**

|          |                                    |
|----------|------------------------------------|
| <leafId> | Leaf id                            |
| <sysMod> | pls enter the system module number |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] spine <leafId> inventory
system <sysMod>
```

# show faults spine protocol

```
show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>]
[min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours
<NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] spine <leafId> protocol <protName>
```

**Description:** Show command for protocol

**Syntax:**

|            |               |
|------------|---------------|
| <leafId>   | Leaf id       |
| <protName> | Protocol name |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] spine <leafId> protocol
<protName>
```

## show faults spine vrf

```
show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours
<NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] spine <leafId> vrf <vrfPort>
```

**Description:** Vrf information

**Syntax:**

|           |                    |
|-----------|--------------------|
| <leafId>  | Leaf id            |
| <vrfPort> | pls enter vrf name |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] spine <leafId> vrf
<vrfPort>
```

# show faults tenant

**show faults** [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant **WORD**

**Description:** Show Tenants Information

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
|-------------|---|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD
```

## show faults tenant application

**show faults** [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant **WORD** application **WORD**

**Description:** Show Application Profiles Information

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63)                         |
| <i>WORD</i> | Name of the application we eventually want to filter on (Max Size 64) |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD application
WORD
```

## show faults tenant application epg

**show faults** [**history**] [**code** <fault-code>] [**id** <fault-ID>] [**ack** <yes|no>] [**lc** <lc-state>] [**severity** <severity-value>] [**min-severity** <severity-value>] [**type** <fault-type>] [**cause** <fault-value>] [**last-minutes** <NUMBER>] [**last-hours** <NUMBER>] [**last-days** <NUMBER>] [**start-time** <YYYY-MM-DDTHR:MIN:SEC>] [**end-time** <YYYY-MM-DDTHR:MIN:SEC>] [**detail**] **tenant** **WORD** **application** **WORD** **epg** **WORD**

**Description:** Show Application EPG Information

### Syntax:

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63)                         |
| <i>WORD</i> | Name of the application we eventually want to filter on (Max Size 64) |
| <i>WORD</i> | Name of the AEPG to filter on (Max Size 64)                           |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD application
WORD epg WORD
```



## show faults tenant bridge-domain

**show faults** [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant **WORD** bridge-domain **WORD**

**Description:** Show Bridge-domain Information

### Syntax:

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
 [severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
 <fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
 <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD
bridge-domain WORD
```

## show faults tenant bridge-domain detail

**show faults** [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD bridge-domain WORD detail

**Description:** Show Bridge-domain Detailed Information

### Syntax:

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
  [severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD
bridge-domain WORD detail
```

# show faults tenant bridge-domain first-hop-security binding-table

```
show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours
<NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD bridge-domain WORD first-hop-security binding-table
```

**Description:** Show Bridge-domain Binding Table Information

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD
bridge-domain WORD first-hop-security binding-table
```

# show faults tenant bridge-domain first-hop-security statistics arp

**show faults** [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD bridge-domain WORD first-hop-security statistics arp

**Description:** Show Bridge-domain First Hop Security ARP Statistics

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
  [severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD
bridge-domain WORD first-hop-security statistics arp
```

# show faults tenant bridge-domain first-hop-security statistics dhcpv4

```
show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours
<NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD bridge-domain WORD first-hop-security statistics
dhcpv4
```

**Description:** Show Bridge-domain First Hop Security DHCPv4 Statistics

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD
bridge-domain WORD first-hop-security statistics dhcpv4
```

# show faults tenant bridge-domain first-hop-security statistics dhcpv6

```
show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>]
[min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours
<NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD bridge-domain WORD first-hop-security statistics
dhcpv6
```

**Description:** Show Bridge-domain First Hop Security DHCPv6 Statistics

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD
bridge-domain WORD first-hop-security statistics dhcpv6
```

# show faults tenant bridge-domain first-hop-security statistics neighbor-discovery

```
show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours
<NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD bridge-domain WORD first-hop-security statistics
neighbor-discovery
```

**Description:** Show Bridge-domain First Hop Security Neighbor Discovery Statistics

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD
bridge-domain WORD first-hop-security statistics neighbor-discovery
```

## show faults tenant dnsservergroup

**show faults** [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD dnsservergroup WORD

**Description:** Show Dns Server Group Information

### Syntax:

|             |  |
|-------------|--|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63)                              |
| <i>WORD</i> | Name of the dns server group we eventually want to filter on (Max Size 16) |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD
dnsservergroup WORD
```



## show faults tenant dnsservergroup server

**show faults** [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant **WORD** dnsservergroup **WORD** server **WORD**

**Description:** Show Dns Server Information

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63)                              |
| <i>WORD</i> | Name of the dns server group we eventually want to filter on (Max Size 16) |
| <i>WORD</i> | IP of server we eventually want to filter on (Max Size None)               |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
 [severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
 <fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
 <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD
 dnsservergroup WORD server WORD
```

## show faults tenant dnsservergroup server domain

**show faults** [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD dnsservergroup WORD server WORD domain WORD

**Description:** Show Dns Domain Information

### Syntax:

|             |  |
|-------------|--|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63)                              |
| <i>WORD</i> | Name of the dns server group we eventually want to filter on (Max Size 16) |
| <i>WORD</i> | IP of server we eventually want to filter on (Max Size None)               |
| <i>WORD</i> | Domain we eventually want to filter on (Max Size 512)                      |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
 [severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
 <fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
 <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD
 dnsservergroup WORD server WORD domain WORD
```

## show faults tenant interface bridge-domain

```
show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>]
[min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours
<NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD interface bridge-domain WORD
```

**Description:** Show Bridge-domain Information

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD interface
bridge-domain WORD
```

# show faults tenant interface bridge-domain detail

**show faults** [**history**] [**code** <fault-code>] [**id** <fault-ID>] [**ack** <yes|no>] [**lc** <lc-state>] [**severity** <severity-value>] [**min-severity** <severity-value>] [**type** <fault-type>] [**cause** <fault-value>] [**last-minutes** <NUMBER>] [**last-hours** <NUMBER>] [**last-days** <NUMBER>] [**start-time** <YYYY-MM-DDTHR:MIN:SEC>] [**end-time** <YYYY-MM-DDTHR:MIN:SEC>] [**detail**] **tenant** **WORD** **interface** **bridge-domain** **WORD** **detail**

**Description:** Show Bridge-domain Detailed Information

## Syntax:

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

## Command Path:

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD interface
bridge-domain WORD detail
```

# show faults tenant interface bridge-domain first-hop-security binding-table

```
show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours
<NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD interface bridge-domain WORD first-hop-security
binding-table
```

**Description:** Show Bridge-domain Binding Table Information

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD interface
bridge-domain WORD first-hop-security binding-table
```

# show faults tenant interface bridge-domain first-hop-security statistics arp

```
show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>]
[min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours
<NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD interface bridge-domain WORD first-hop-security
statistics arp
```

**Description:** Show Bridge-domain First Hop Security ARP Statistics

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD interface
bridge-domain WORD first-hop-security statistics arp
```

# show faults tenant interface bridge-domain first-hop-security statistics dhcpv4

```
show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours
<NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD interface bridge-domain WORD first-hop-security
statistics dhcpv4
```

**Description:** Show Bridge-domain First Hop Security DHCPv4 Statistics

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD interface
bridge-domain WORD first-hop-security statistics dhcpv4
```

# show faults tenant interface bridge-domain first-hop-security statistics dhcpv6

```
show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>]
[min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours
<NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD interface bridge-domain WORD first-hop-security
statistics dhcpv6
```

**Description:** Show Bridge-domain First Hop Security DHCPv6 Statistics

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD interface
bridge-domain WORD first-hop-security statistics dhcpv6
```



# show faults tenant interface bridge-domain first-hop-security statistics neighbor-discovery

```
show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>]
[min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours
<NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD interface bridge-domain WORD first-hop-security
statistics neighbor-discovery
```

**Description:** Show Bridge-domain First Hop Security Neighbor Discovery Statistics

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD interface
bridge-domain WORD first-hop-security statistics neighbor-discovery
```

## show faults tenant multicast-route-maps

```
show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>]
[min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours
<NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD multicast-route-maps
```

**Description:** Show multicast route-maps per Tenant

### Syntax:

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
|-------------|---|

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD
multicast-route-maps
```

## show faults tenant vrf

**show faults** [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant **WORD** vrf **WORD**

**Description:** Show VRF Information

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD
```

## show faults tenant vrf acllog l2

```
show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours
<NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD acllog <permitDrop> l2 flow vlan <NUMBER>
srcintf <srcintf>
```

**Description:** L2 flow stats

### Syntax:

|                   |  |
|-------------------|--|
| <i>WORD</i>       | Name of the tenant to filter on (Max Size 63)      |
| <i>WORD</i>       | Name of the VRF to filter on (Max Size 64)         |
| <i>permitDrop</i> | permitDrop   |
| flow              | flowi stats  |
| vlan              | vlan info  |
| <vlan>            | <vlan>. Number range from=0 to=9223372036854775807 |
| srcintf           | source interface                                   |
| <srcintf>         | <srcintf>  |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD
acllog <permitDrop> l2 flow vlan <NUMBER> srcintf <srcintf>
```

## show faults tenant vrf acllog l3

```
show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>]
[min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours
<NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD acllog <permitDrop> l3 flow srcpctag
<srcpctag> dstpctag <dstpctag> srcepname <srcepname> dstepname <dstepname> srcip <A.B.C.D or
A:B::C:D> dstip <A.B.C.D or A:B::C:D> proto <proto> srcport <srcport> dstport <dstport> srcintf <srcintf>
```

**Description:** L3 flow stats

### Syntax:

|                            |  |
|----------------------------|--|
| <i>WORD</i>                | Name of the tenant to filter on (Max Size 63)                              |
| <i>WORD</i>                | Name of the VRF to filter on (Max Size 64)                                 |
| <i>permitDrop</i>          | permitDrop   |
| flow                       | flow stats   |
| srcpctag                   | source pc tag  |
| < <i>srcpctag</i> >        | <srcpctag>   |
| dstpctag                   | destination pc tag   |
| < <i>dstpctag</i> >        | <dstpctag>   |
| srcepname                  | source epg name  |
| < <i>srcepname</i> >       | <srcepname>  |
| dstepname                  | destination epg name   |
| < <i>dstepname</i> >       | <dstepname>  |
| srcip                      | source ip  |
| <i>A.B.C.D or A:B::C:D</i> | IP address in format i.i.i.i or IPv6 address in format xxxx:xxxx, xxxx::xx |
| dstip                      | destination ip   |
| <i>A.B.C.D or A:B::C:D</i> | IP address in format i.i.i.i or IPv6 address in format xxxx:xxxx, xxxx::xx |
| proto                      | protocol   |
| < <i>proto</i> >           | <proto>  |
| srcport                    | source port  |
| < <i>srcport</i> >         | <srcport>  |
| dstport                    | destination port   |

|           |                  |
|-----------|------------------|
| <dstport> | <dstport>        |
| srcintf   | source interface |
| <srcintf> | <srcintf>        |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD
acllog <permitDrop> l3 flow srcpctag <srcpctag> dstpctag <dstpctag> srcepname <srcepname>
dstepname <dstepname> srcip <A.B.C.D or A:B::C:D> dstip <A.B.C.D or A:B::C:D> proto
<proto> srcport <srcport> dstport <dstport> srcintf <srcintf>
```

# show faults tenant vrf detail

**show faults** [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant **WORD** vrf **WORD** detail

**Description:** Show detailed view of VRF

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD
detail
```

## show faults tenant vrf external-l3 bgp

**show faults** [*history*] [*code* <fault-code>] [*id* <fault-ID>] [*ack* <yes|no>] [*lc* <lc-state>] [*severity* <severity-value>] [*min-severity* <severity-value>] [*type* <fault-type>] [*cause* <fault-value>] [*last-minutes* <NUMBER>] [*last-hours* <NUMBER>] [*last-days* <NUMBER>] [*start-time* <YYYY-MM-DDTHR:MIN:SEC>] [*end-time* <YYYY-MM-DDTHR:MIN:SEC>] [*detail*] tenant *WORD* vrf *WORD* external-l3 bgp

**Description:** Show command for BGP peers

### Syntax:

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD
external-l3 bgp
```



## show faults tenant vrf external-l3 bgp node

```
show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>]
[min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours
<NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD external-l3 bgp node <101-4000>
```

**Description:** node to filter on

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |
| <101-4000>  | Leaf Range or Leaf Name List                  |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD
external-l3 bgp node <101-4000>
```

## show faults tenant vrf external-l3 eigrp

**show faults** [**history**] [**code** <fault-code>] [**id** <fault-ID>] [**ack** <yes|no>] [**lc** <lc-state>] [**severity** <severity-value>] [**min-severity** <severity-value>] [**type** <fault-type>] [**cause** <fault-value>] [**last-minutes** <NUMBER>] [**last-hours** <NUMBER>] [**last-days** <NUMBER>] [**start-time** <YYYY-MM-DDTHR:MIN:SEC>] [**end-time** <YYYY-MM-DDTHR:MIN:SEC>] [**detail**] **tenant** WORD **vrf** WORD **external-l3 eigrp**

**Description:** Show external l3 EIGRP

### Syntax:

|      |   |
|------|---|
| WORD | Name of the tenant to filter on (Max Size 63) |
| WORD | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD
external-l3 eigrp
```

## show faults tenant vrf external-l3 eigrp detail

```
show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>]
[min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours
<NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD external-l3 eigrp detail
```

**Description:** Show interanl details

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD
external-l3 eigrp detail
```

## show faults tenant vrf external-l3 epg

**show faults** [**history**] [**code** <fault-code>] [**id** <fault-ID>] [**ack** <yes|no>] [**lc** <lc-state>] [**severity** <severity-value>] [**min-severity** <severity-value>] [**type** <fault-type>] [**cause** <fault-value>] [**last-minutes** <NUMBER>] [**last-hours** <NUMBER>] [**last-days** <NUMBER>] [**start-time** <YYYY-MM-DDTHR:MIN:SEC>] [**end-time** <YYYY-MM-DDTHR:MIN:SEC>] [**detail**] **tenant** WORD **vrf** WORD **external-l3 epg** <epgName>

**Description:** Show command for external-l3 epgs

### Syntax:

|                        |   |
|------------------------|---|
| <i>WORD</i>            | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i>            | Name of the VRF to filter on (Max Size 64)    |
| <i>&lt;epgName&gt;</i> | Name of the EPG to filter on                  |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD
external-l3 epg <epgName>
```

## show faults tenant vrf external-l3 epg detail

```
show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>]
[min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours
<NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD external-l3 epg <epgName> detail
```

**Description:** external-l3 epg in detail with operational status

**Syntax:**

|                        |   |
|------------------------|---|
| <i>WORD</i>            | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i>            | Name of the VRF to filter on (Max Size 64)    |
| <i>&lt;epgName&gt;</i> | Name of the EPG to filter on                  |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD
external-l3 epg <epgName> detail
```

## show faults tenant vrf external-l3 epg name

```
show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>]
[min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours
<NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD external-l3 epg <epgName> name <epgName>
```

**Description:** EPG name to filter on

### Syntax:

|                        |   |
|------------------------|---|
| <i>WORD</i>            | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i>            | Name of the VRF to filter on (Max Size 64)    |
| <i>&lt;epgName&gt;</i> | Name of the EPG to filter on                  |
| <i>&lt;epgName&gt;</i> | Name of the EPG to filter on                  |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD
external-l3 epg <epgName> name <epgName>
```

## show faults tenant vrf external-l3 epg name detail

```
show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours
<NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD external-l3 epg <epgName> name <epgName>
detail
```

**Description:** external-l3 epg in detail with operational status

**Syntax:**

|                        |   |
|------------------------|---|
| <i>WORD</i>            | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i>            | Name of the VRF to filter on (Max Size 64)    |
| <i>&lt;epgName&gt;</i> | Name of the EPG to filter on                  |
| <i>&lt;epgName&gt;</i> | Name of the EPG to filter on                  |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD
external-l3 epg <epgName> name <epgName> detail
```

## show faults tenant vrf external-l3 interfaces

**show faults** [**history**] [**code** <fault-code>] [**id** <fault-ID>] [**ack** <yes|no>] [**lc** <lc-state>] [**severity** <severity-value>] [**min-severity** <severity-value>] [**type** <fault-type>] [**cause** <fault-value>] [**last-minutes** <NUMBER>] [**last-hours** <NUMBER>] [**last-days** <NUMBER>] [**start-time** <YYYY-MM-DDTHR:MIN:SEC>] [**end-time** <YYYY-MM-DDTHR:MIN:SEC>] [**detail**] **tenant** WORD **vrf** WORD **external-l3 interfaces**

**Description:** Show tenant <tenant> vrf <vrf> external l3 interfaces

### Syntax:

|      |   |
|------|---|
| WORD | Name of the tenant to filter on (Max Size 63) |
| WORD | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD
external-l3 interfaces
```



## show faults tenant vrf external-l3 interfaces detail

```
show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>]
[min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours
<NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD external-l3 interfaces detail
```

**Description:** Show interfaces details

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD
external-l3 interfaces detail
```

## show faults tenant vrf external-l3 ospf

**show faults** [*history*] [*code* <fault-code>] [*id* <fault-ID>] [*ack* <yes|no>] [*lc* <lc-state>] [*severity* <severity-value>] [*min-severity* <severity-value>] [*type* <fault-type>] [*cause* <fault-value>] [*last-minutes* <NUMBER>] [*last-hours* <NUMBER>] [*last-days* <NUMBER>] [*start-time* <YYYY-MM-DDTHR:MIN:SEC>] [*end-time* <YYYY-MM-DDTHR:MIN:SEC>] [*detail*] *tenant* *WORD* *vrf* *WORD* *external-l3* *ospf*

**Description:** Show command for IPv4 and IPv6 external l3 OSPF configuration

### Syntax:

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD
external-l3 ospf
```

## show faults tenant vrf external-l3 ospf detail

**show faults** [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant **WORD** vrf **WORD** external-l3 ospf detail

**Description:** Show internal details

### Syntax:

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD
external-l3 ospf detail
```

## show faults tenant vrf external-l3 scale

**show faults** [**history**] [**code** <fault-code>] [**id** <fault-ID>] [**ack** <yes|no>] [**lc** <lc-state>] [**severity** <severity-value>] [**min-severity** <severity-value>] [**type** <fault-type>] [**cause** <fault-value>] [**last-minutes** <NUMBER>] [**last-hours** <NUMBER>] [**last-days** <NUMBER>] [**start-time** <YYYY-MM-DDTHR:MIN:SEC>] [**end-time** <YYYY-MM-DDTHR:MIN:SEC>] [**detail**] **tenant** WORD **vrf** WORD **external-l3** **scale**

**Description:** scale command

### Syntax:

|      |   |
|------|---|
| WORD | Name of the tenant to filter on (Max Size 63) |
| WORD | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD
external-l3 scale
```

## show faults tenant vrf external-l3 scale detail

```
show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>]
[min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours
<NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD external-l3 scale detail
```

**Description:** Show scale details

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD
external-l3 scale detail
```

## show faults tenant vrf external-l3 static-route

**show faults** [**history**] [**code** <fault-code>] [**id** <fault-ID>] [**ack** <yes|no>] [**lc** <lc-state>] [**severity** <severity-value>] [**min-severity** <severity-value>] [**type** <fault-type>] [**cause** <fault-value>] [**last-minutes** <NUMBER>] [**last-hours** <NUMBER>] [**last-days** <NUMBER>] [**start-time** <YYYY-MM-DDTHR:MIN:SEC>] [**end-time** <YYYY-MM-DDTHR:MIN:SEC>] [**detail**] **tenant** WORD **vrf** WORD **external-l3 static-route**

**Description:** Show command for external-l3 static routes

### Syntax:

|      |   |
|------|---|
| WORD | Name of the tenant to filter on (Max Size 63) |
| WORD | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD
external-l3 static-route
```

## show faults tenant vrf external-l3 static-route detail

```
show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>]
[min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours
<NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD external-l3 static-route detail
```

**Description:** static-route in detail with operational status

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD
external-l3 static-route detail
```

## show faults tenant vrf external-l3 static-route node

**show faults** [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD external-l3 static-route node

**Description:** node to filter on

### Syntax:

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |
| <i>arg</i>  | Leaf Range or Leaf Name List                  |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD
external-l3 static-route node
```



## show faults tenant vrf external-l3 static-route node detail

```
show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours
<NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD external-l3 static-route node detail
```

**Description:** static-route in detail with operational status

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |
| <i>arg</i>  | Leaf Range or Leaf Name List                  |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD
external-l3 static-route node detail
```

## show faults tenant vrf multicast

**show faults** [*history*] [*code* <fault-code>] [*id* <fault-ID>] [*ack* <yes|no>] [*lc* <lc-state>] [*severity* <severity-value>] [*min-severity* <severity-value>] [*type* <fault-type>] [*cause* <fault-value>] [*last-minutes* <NUMBER>] [*last-hours* <NUMBER>] [*last-days* <NUMBER>] [*start-time* <YYYY-MM-DDTHR:MIN:SEC>] [*end-time* <YYYY-MM-DDTHR:MIN:SEC>] [*detail*] *tenant* *WORD* *vrf* *WORD* *multicast*

**Description:** Show multicast configuration per VRF

### Syntax:

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
  [severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] tenant WORD vrf WORD
multicast
```

## show faults vmware domain

```
show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>]
[min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours
<NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] vmware domain
```

**Description:** Show VMware domain information

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] vmware domain
```

## show faults vmware domain name

```
show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours
<NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] vmware domain name <name>
```

**Description:** VMware domain name

**Syntax:**

|        |                    |
|--------|--------------------|
| <name> | VMware domain name |
|--------|--------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] vmware domain name
<name>
```

## show faults vmware domain name epg

**show faults** [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] vmware domain name <name> epg

**Description:** Show VMware domain EPG details

**Syntax:**

|        |                    |
|--------|--------------------|
| <name> | VMware domain name |
|--------|--------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] vmware domain name
<name> epg
```

## show faults vmware domain name esx

**show faults** [**history**] [**code** <fault-code>] [**id** <fault-ID>] [**ack** <yes|no>] [**lc** <lc-state>] [**severity** <severity-value>] [**min-severity** <severity-value>] [**type** <fault-type>] [**cause** <fault-value>] [**last-minutes** <NUMBER>] [**last-hours** <NUMBER>] [**last-days** <NUMBER>] [**start-time** <YYYY-MM-DDTHR:MIN:SEC>] [**end-time** <YYYY-MM-DDTHR:MIN:SEC>] [**detail**] vmware domain name <name> esx <esx-ip>

**Description:** Show VMware ESX information

### Syntax:

|          |                    |
|----------|--------------------|
| <name>   | VMware domain name |
| <esx-ip> | ESX IP             |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] vmware domain name
<name> esx <esx-ip>
```

# show faults vmware domain name port-group

**show faults** [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] vmware domain name <name> port-group

**Description:** Show VMware port group information

**Syntax:**

|        |                    |
|--------|--------------------|
| <name> | VMware domain name |
|--------|--------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] vmware domain name
<name> port-group
```

# show faults vmware domain name trunk-portgroup

**show faults** [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] vmware domain name <name> trunk-portgroup [name <name>]

**Description:** Show VMware domain trunk portgroup details

## Syntax:

|        |                                 |
|--------|---------------------------------|
| <name> | VMware domain name              |
| <name> | (Optional) trunk portgroup name |

**Command Mode:** exec : Exec Mode

## Command Path:

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] vmware domain name
<name> trunk-portgroup [name <name>]
```



## show faults vmware domain name vcenter

```
show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>]
[min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours
<NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time
<YYYY-MM-DDTHR:MIN:SEC>] [detail] vmware domain name <name> vcenter <hostname|ip>
```

**Description:** VMware vCenter ip or hostname

### Syntax:

|               |                        |
|---------------|------------------------|
| <name>        | VMware domain name     |
| <hostname ip> | vCenter hostname or IP |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
[severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] vmware domain name
<name> vcenter <hostname|ip>
```

## show faults vmware domain name vm

**show faults** [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] vmware domain name <name> vm

**Description:** Show VMware VM information

### Syntax:

|        |                    |
|--------|--------------------|
| <name> | VMware domain name |
|--------|--------------------|

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
  [severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
<fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] vmware domain name
<name> vm
```

## show faults vmware domain name vm name

**show faults** [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>] [severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause <fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] vmware domain name <name> vm name <vm-name>

**Description:** Show detailed VMware VM information

### Syntax:

|           |                    |
|-----------|--------------------|
| <name>    | VMware domain name |
| <vm-name> | VM Name            |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show faults [history] [code <fault-code>] [id <fault-ID>] [ack <yes|no>] [lc <lc-state>]
 [severity <severity-value>] [min-severity <severity-value>] [type <fault-type>] [cause
 <fault-value>] [last-minutes <NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time
 <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] vmware domain name
 <name> vm name <vm-name>
```

# show fips

**show fips**

**Description:** Show FIPS information

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show fips
```

# show fips status

**show fips status**

**Description:** Show FIPS status

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show fips status
```

# show firmware compat matrix

**show firmware compat matrix <WORD>**

**Description:** compatibility matrix for desired version

**Syntax:**

|             |                            |
|-------------|----------------------------|
| <i>WORD</i> | Desired Controller Version |
|-------------|----------------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show firmware compat matrix <WORD>
```

# show firmware repository

**show firmware repository**

**Description:** Show firmware images present in repository

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show firmware repository
```

# show firmware repository detail

**show firmware repository detail**

**Description:** Detailed repository information

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show firmware repository detail
```



# show firmware upgrade status

**show firmware upgrade status**

**Description:** Upgrade status of all controllers and switches

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show firmware upgrade status
```

# show firmware upgrade status controller-group

**show firmware upgrade status controller-group**

**Description:** Controller-group upgrade status

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show firmware upgrade status controller-group
```

# show firmware upgrade status controller-group detail

**show firmware upgrade status controller-group detail**

**Description:** Detailed upgrade status

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show firmware upgrade status controller-group detail
```

# show firmware upgrade status detail

**show firmware upgrade status detail**

**Description:** Detailed upgrade status information

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show firmware upgrade status detail
```

# show firmware upgrade status switch-group

**show firmware upgrade status switch-group <WORD>**

**Description:** Switch-group upgrade status

**Syntax:**

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

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show firmware upgrade status switch-group <WORD>
```

# show firmware upgrade status switch-group detail

**show firmware upgrade status switch-group <WORD> detail**

**Description:** Detailed upgrade status

**Syntax:**

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

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show firmware upgrade status switch-group <WORD> detail
```

# show flow exporter

**show flow exporter**

**Description:** Show Netflow exporter information

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show flow exporter
```

# show flow exporter infra

**show flow exporter infra WORD [detail]**

**Description:** Show flow exporter infra information

**Syntax:**

|             |                   |
|-------------|-------------------|
| <i>WORD</i> | Exporter Name     |
| detail      | (Optional) detail |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show flow exporter infra WORD [detail]
```



# show flow exporter tenant

**show flow exporter tenant** <WORD> WORD [detail]

**Description:** Show flow exporter tenant information

**Syntax:**

|             |                      |
|-------------|----------------------|
| <i>WORD</i> | Optional tenant name |
| <i>WORD</i> | Exporter Name        |
| detail      | (Optional) detail    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show flow exporter tenant <WORD> WORD [detail]
```

# show flow monitor

**show flow monitor**

**Description:** Show Netflow Monitor Information

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show flow monitor
```

# show flow monitor infra

**show flow monitor infra WORD [detail]**

**Description:** Show Netflow Monitor Information for infra

**Syntax:**

|             |                       |
|-------------|-----------------------|
| <i>WORD</i> | Optional Monitor Name |
| detail      | (Optional) detail     |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show flow monitor infra WORD [detail]
```

# show flow monitor tenant

**show flow monitor tenant** <WORD> WORD [detail]

**Description:** Show Netflow Monitor Information for the specified tenant

**Syntax:**

|             |                       |
|-------------|-----------------------|
| <i>WORD</i> | Specify tenant name   |
| <i>WORD</i> | Optional Monitor Name |
| detail      | (Optional) detail     |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show flow monitor tenant <WORD> WORD [detail]
```

# show flow node-policy

**show flow node-policy** [name <WORD>]

**Description:** Show Netflow Node Policy Information

**Syntax:**

|             |                                      |
|-------------|--------------------------------------|
| <i>WORD</i> | (Optional) Optional Node Policy Name |
|-------------|--------------------------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show flow node-policy [name <WORD>]
```

# show flow node-policy detail

**show flow node-policy [name <WORD>] detail**

**Description:** Show Netflow Node Policy Detailed Information

**Syntax:**

|             |                                      |
|-------------|--------------------------------------|
| <i>WORD</i> | (Optional) Optional Node Policy Name |
|-------------|--------------------------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show flow node-policy [name <WORD>] detail
```

# show flow record

**show flow record**

**Description:** Show Netflow record information

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show flow record
```

# show flow record infra

**show flow record infra WORD [detail]**

**Description:** Show flow record infra information

**Syntax:**

|             |                   |
|-------------|-------------------|
| <i>WORD</i> | Record Name       |
| detail      | (Optional) detail |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show flow record infra WORD [detail]
```



# show flow record tenant

**show flow record tenant** [**record-name** <recordName>] <tenantName> **WORD** [**detail**]

**Description:** Show flow record tenant information

**Syntax:**

|                   |                                 |
|-------------------|---------------------------------|
| <i>recordName</i> | (Optional) Optional record name |
| <i>tenantName</i> | Optional tenant name            |
| <i>WORD</i>       | Record Name                     |
| detail            | (Optional) detail               |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show flow record tenant [record-name <recordName>] <tenantName> WORD [detail]
```

# show flow vm-exporter

**show flow vm-exporter WORD**

**Description:** Show NetFlow Exporter information for VM Networking

**Syntax:**

|             |                       |
|-------------|-----------------------|
| <i>WORD</i> | NetFlow Exporter Name |
|-------------|-----------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show flow vm-exporter WORD
```

# show health

**show health** [**history**] [**min-change** <NUMBER>] [**max-hs** <NUMBER>] [**start-time** start-time <YYYY-MM-DDTHR:MIN:SEC>] [**end-time** end-time <YYYY-MM-DDTHR:MIN:SEC>] <scope>

**Description:** Show health score information

**Syntax:**

|  |  |
|--|--|
| history                                      | (Optional) Historical information  |
| <i>min-change</i> <percentage change>        | (Optional) Minimum change in health score percentage. Number range from=-100 to=9999 |
| <i>max-hs</i> <maximum health-score>         | (Optional) Maximum health score. Number range from=0 to=100                          |
| <i>start-time</i><br><YYYY-MM-DDTHR:MIN:SEC> | (Optional) Health activity in time interval  |
| <i>end-time</i><br><YYYY-MM-DDTHR:MIN:SEC>   | (Optional) Health activity in time interval  |
| <scope>                                      | command scope  |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time end-time <YYYY-MM-DDTHR:MIN:SEC>] <scope>
```

# show health leaf

**show health** [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] leaf <leafId>

**Description:** Show command for leaf

**Syntax:**

|          |         |
|----------|---------|
| <leafId> | Leaf id |
|----------|---------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time  
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] leaf <leafId>
```

# show health leaf fex

**show health** [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] leaf <leafId> fex <fexNum>

**Description:** Show extended chassis information

**Syntax:**

|          |                      |
|----------|----------------------|
| <leafId> | Leaf id              |
| <fexNum> | pls enter fex number |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time  
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] leaf <leafId> fex <fexNum>
```

# show health leaf fex module

**show health** [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] leaf <leafId> fex <fexNum> module <lcSlot>

**Description:** Show inventory module information

**Syntax:**

|          |                                |
|----------|--------------------------------|
| <leafId> | Leaf id                        |
| <fexNum> | pls enter fex number           |
| <lcSlot> | please enter the module number |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] leaf <leafId> fex <fexNum>
module <lcSlot>
```

# show health leaf interface ethernet

**show health** [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] leaf <leafId> interface ethernet <phyInt>

**Description:** Ethernet IEEE 802.3z

**Syntax:**

|          |  |
|----------|--|
| <leafId> | Leaf id                                      |
| <phyInt> | <slot or chassis-number/port or slot number> |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time  
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] leaf <leafId> interface ethernet  
<phyInt>
```

# show health leaf interface fc

**show health** [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] leaf <leafId> interface fc <phyInt>

**Description:** Fibre Channel Protocol

**Syntax:**

|          |  |
|----------|--|
| <leafId> | Leaf id                                      |
| <phyInt> | <slot or chassis-number/port or slot number> |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] leaf <leafId> interface fc
<phyInt>
```



# show health leaf interface fcportchannel

**show health** [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] leaf <leafId> interface fcportchannel <portChan>

**Description:** FC Port channel interface

**Syntax:**

|            |                       |
|------------|-----------------------|
| <leafId>   | Leaf id               |
| <portChan> | <Port channel number> |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time  
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] leaf <leafId> interface  
fcportchannel <portChan>
```

## show health leaf interface l3instance

**show health** [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] leaf <leafId> interface l3instance <l3Inst>

**Description:** L3 instance

**Syntax:**

|          |                      |
|----------|----------------------|
| <leafId> | Leaf id              |
| <l3Inst> | <L3 instance number> |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] leaf <leafId> interface l3instance
<l3Inst>
```

# show health leaf interface mgmt

**show health** [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] leaf <leafId> interface mgmt <mgmtPort>

**Description:** Management interface

**Syntax:**

|            |                               |
|------------|-------------------------------|
| <leafId>   | Leaf id                       |
| <mgmtPort> | <Management interface number> |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time  
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] leaf <leafId> interface mgmt  
<mgmtPort>
```

# show health leaf interface portchannel

**show health** [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] leaf <leafId> interface portchannel <portChan>

**Description:** Port channel interface

**Syntax:**

|            |                       |
|------------|-----------------------|
| <leafId>   | Leaf id               |
| <portChan> | <Port channel number> |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] leaf <leafId> interface
portchannel <portChan>
```

# show health leaf interface tunnel

**show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] leaf <leafId> interface tunnel <tunnelPort>**

**Description:** Tunnel Interface

**Syntax:**

|                           |                           |
|---------------------------|---------------------------|
| <i>&lt;leafId&gt;</i>     | Leaf id                   |
| <i>&lt;tunnelPort&gt;</i> | <Tunnel interface number> |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time  
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] leaf <leafId> interface tunnel  
<tunnelPort>
```

# show health leaf interface vethernet

**show health** [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] leaf <leafId> interface vethernet <phyInt>

**Description:** vethernet ID

**Syntax:**

|          |  |
|----------|--|
| <leafId> | Leaf id                                      |
| <phyInt> | <slot or chassis-number/port or slot number> |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] leaf <leafId> interface vethernet
<phyInt>
```

# show health leaf inventory chassis

**show health** [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] leaf <leafId> inventory chassis

**Description:** Show inventory chassis information

**Syntax:**

|          |         |
|----------|---------|
| <leafId> | Leaf id |
|----------|---------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time  
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] leaf <leafId> inventory chassis
```

# show health leaf inventory fans

**show health** [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] leaf <leafId> inventory fans <ftSlot>

**Description:** Show inventory fan information

**Syntax:**

|          |                           |
|----------|---------------------------|
| <leafId> | Leaf id                   |
| <ftSlot> | pls enter fan tray number |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] leaf <leafId> inventory fans
<ftSlot>
```



# show health leaf inventory module

**show health** [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] leaf <leafId> inventory module <lcSlot>

**Description:** Show inventory module information

**Syntax:**

|          |                                |
|----------|--------------------------------|
| <leafId> | Leaf id                        |
| <lcSlot> | please enter the module number |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] leaf <leafId> inventory module
<lcSlot>
```

# show health leaf inventory module fabricport

**show health** [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] leaf <leafId> inventory module <lcSlot> fabricport <fabPort>

**Description:** Show information for fabric port

## Syntax:

|           |                                  |
|-----------|----------------------------------|
| <leafId>  | Leaf id                          |
| <lcSlot>  | please enter the module number   |
| <fabPort> | pls enter the fabric port number |

**Command Mode:** exec : Exec Mode

## Command Path:

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] leaf <leafId> inventory module
<lcSlot> fabricport <fabPort>
```

## show health leaf inventory module leafport

**show health** [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] leaf <leafId> inventory module <lcSlot> leafport <leafPort>

**Description:** Show information for leaf port

**Syntax:**

|            |                                |
|------------|--------------------------------|
| <leafId>   | Leaf id                        |
| <lcSlot>   | please enter the module number |
| <leafPort> | pls enter the leaf port number |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] leaf <leafId> inventory module
<lcSlot> leafport <leafPort>
```

# show health leaf inventory powersupply

**show health** [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] leaf <leafId> inventory powersupply <psuSlot>

**Description:** Show inventory power supply information

**Syntax:**

|           |                                  |
|-----------|----------------------------------|
| <leafId>  | Leaf id                          |
| <psuSlot> | pls enter the powersupply number |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] leaf <leafId> inventory
powersupply <psuSlot>
```

# show health leaf inventory supervisor

**show health** [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] leaf <leafId> inventory supervisor <supMod>

**Description:** Show information for supervisor module

**Syntax:**

|          |  |
|----------|--|
| <leafId> | Leaf id                                |
| <supMod> | pls enter the supervisor module number |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time  
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] leaf <leafId> inventory supervisor  
<supMod>
```

# show health leaf protocol

**show health** [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] leaf <leafId> protocol <protName>

**Description:** Show command for protocol

**Syntax:**

|            |               |
|------------|---------------|
| <leafId>   | Leaf id       |
| <protName> | Protocol name |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] leaf <leafId> protocol <protName>
```

# show health leaf vpc

**show health** [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] leaf <leafId> vpc <vpcPort>

**Description:** Virtual port channel information

**Syntax:**

|           |                                       |
|-----------|---------------------------------------|
| <leafId>  | Leaf id                               |
| <vpcPort> | pls enter virtual port channel number |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time  
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] leaf <leafId> vpc <vpcPort>
```

# show health leaf vrf

**show health** [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] leaf <leafId> vrf <vrfPort>

**Description:** Vrf information

**Syntax:**

|           |                    |
|-----------|--------------------|
| <leafId>  | Leaf id            |
| <vrfPort> | pls enter vrf name |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] leaf <leafId> vrf <vrfPort>
```



# show health spine

**show health** [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] spine <leafId>

**Description:** Show command for spine

**Syntax:**

|          |         |
|----------|---------|
| <leafId> | Leaf id |
|----------|---------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] spine <leafId>
```

# show health spine interface ethernet

**show health** [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] spine <leafId> interface ethernet <phyInt>

**Description:** Ethernet IEEE 802.3z

## Syntax:

|          |  |
|----------|--|
| <leafId> | Leaf id                                      |
| <phyInt> | <slot or chassis-number/port or slot number> |

**Command Mode:** exec : Exec Mode

## Command Path:

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] spine <leafId> interface ethernet
<phyInt>
```

# show health spine interface l3instance

**show health** [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] spine <leafId> interface l3instance <l3Inst>

**Description:** L3 instance

**Syntax:**

|          |                      |
|----------|----------------------|
| <leafId> | Leaf id              |
| <l3Inst> | <L3 instance number> |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] spine <leafId> interface l3instance <l3Inst>
```

# show health spine interface mgmt

**show health** [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] spine <leafId> interface mgmt <mgmtPort>

**Description:** Management interface

**Syntax:**

|            |                               |
|------------|-------------------------------|
| <leafId>   | Leaf id                       |
| <mgmtPort> | <Management interface number> |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] spine <leafId> interface mgmt
<mgmtPort>
```

# show health spine interface tunnel

**show health** [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] spine <leafId> interface tunnel <tunnelPort>

**Description:** Tunnel Interface

**Syntax:**

|              |                           |
|--------------|---------------------------|
| <leafId>     | Leaf id                   |
| <tunnelPort> | <Tunnel interface number> |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time  
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] spine <leafId> interface tunnel  
<tunnelPort>
```

# show health spine inventory chassis

**show health** [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] spine <leafId> inventory chassis

**Description:** Show inventory chassis information

**Syntax:**

|          |         |
|----------|---------|
| <leafId> | Leaf id |
|----------|---------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] spine <leafId> inventory chassis
```

# show health spine inventory fabric

**show health** [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] spine <leafId> inventory fabric <fcMod>

**Description:** Show information for fabric module

**Syntax:**

|          |                                    |
|----------|------------------------------------|
| <leafId> | Leaf id                            |
| <fcMod>  | pls enter the fabric module number |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] spine <leafId> inventory fabric
<fcMod>
```

# show health spine inventory fans

**show health** [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] spine <leafId> inventory fans <ftSlot>

**Description:** Show inventory fan information

**Syntax:**

|          |                           |
|----------|---------------------------|
| <leafId> | Leaf id                   |
| <ftSlot> | pls enter fan tray number |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] spine <leafId> inventory fans
<ftSlot>
```



# show health spine inventory module

**show health** [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] spine <leafId> inventory module <lcSlot>

**Description:** Show inventory module information

**Syntax:**

|          |                                |
|----------|--------------------------------|
| <leafId> | Leaf id                        |
| <lcSlot> | please enter the module number |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time  
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] spine <leafId> inventory module  
<lcSlot>
```

# show health spine inventory module fabricport

**show health** [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] spine <leafId> inventory module <lcSlot> fabricport <fabPort>

**Description:** Show information for fabric port

## Syntax:

|           |                                  |
|-----------|----------------------------------|
| <leafId>  | Leaf id                          |
| <lcSlot>  | please enter the module number   |
| <fabPort> | pls enter the fabric port number |

**Command Mode:** exec : Exec Mode

## Command Path:

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] spine <leafId> inventory module
<lcSlot> fabricport <fabPort>
```

# show health spine inventory powersupply

**show health** [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] spine <leafId> inventory powersupply <psuSlot>

**Description:** Show inventory power supply information

**Syntax:**

|           |                                  |
|-----------|----------------------------------|
| <leafId>  | Leaf id                          |
| <psuSlot> | pls enter the powersupply number |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] spine <leafId> inventory
powersupply <psuSlot>
```

# show health spine inventory supervisor

**show health** [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] spine <leafId> inventory supervisor <supMod>

**Description:** Show information for supervisor module

**Syntax:**

|          |  |
|----------|--|
| <leafId> | Leaf id                                |
| <supMod> | pls enter the supervisor module number |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] spine <leafId> inventory
supervisor <supMod>
```

# show health spine inventory system

**show health** [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] spine <leafId> inventory system <sysMod>

**Description:** Show information for system module

**Syntax:**

|          |                                    |
|----------|------------------------------------|
| <leafId> | Leaf id                            |
| <sysMod> | pls enter the system module number |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time  
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] spine <leafId> inventory system  
<sysMod>
```

# show health spine protocol

**show health** [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] spine <leafId> protocol <protName>

**Description:** Show command for protocol

**Syntax:**

|            |               |
|------------|---------------|
| <leafId>   | Leaf id       |
| <protName> | Protocol name |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] spine <leafId> protocol <protName>
```

# show health spine vrf

**show health** [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] spine <leafId> vrf <vrfPort>

**Description:** Vrf information

**Syntax:**

|           |                    |
|-----------|--------------------|
| <leafId>  | Leaf id            |
| <vrfPort> | pls enter vrf name |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time  
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] spine <leafId> vrf <vrfPort>
```

# show health tenant

**show health** [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant **WORD**

**Description:** Show Tenants Information

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
|-------------|---|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD
```



# show health tenant application

**show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD application WORD**

**Description:** Show Application Profiles Information

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63)                         |
| <i>WORD</i> | Name of the application we eventually want to filter on (Max Size 64) |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD application WORD
```

# show health tenant application epg

**show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD application WORD epg WORD**

**Description:** Show Application EPG Information

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63)                         |
| <i>WORD</i> | Name of the application we eventually want to filter on (Max Size 64) |
| <i>WORD</i> | Name of the AEPG to filter on (Max Size 64)                           |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD application WORD
epg WORD
```

# show health tenant bridge-domain

**show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD bridge-domain WORD**

**Description:** Show Bridge-domain Information

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD bridge-domain WORD
```

# show health tenant bridge-domain detail

**show health** [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant **WORD** bridge-domain **WORD** detail

**Description:** Show Bridge-domain Detailed Information

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD bridge-domain WORD
detail
```

# show health tenant bridge-domain first-hop-security binding-table

**show health** [**history**] [**min-change** <NUMBER>] [**max-hs** <NUMBER>] [**start-time** <YYYY-MM-DDTHR:MIN:SEC>] [**end-time** <YYYY-MM-DDTHR:MIN:SEC>] **tenant** WORD **bridge-domain** WORD **first-hop-security** **binding-table**

**Description:** Show Bridge-domain Binding Table Information

**Syntax:**

|      |   |
|------|---|
| WORD | Name of the tenant to filter on (Max Size 63) |
| WORD | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time  
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD bridge-domain WORD  
first-hop-security binding-table
```

# show health tenant bridge-domain first-hop-security statistics arp

**show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD bridge-domain WORD first-hop-security statistics arp**

**Description:** Show Bridge-domain First Hop Security ARP Statistics

## Syntax:

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

## Command Path:

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD bridge-domain WORD
first-hop-security statistics arp
```

# show health tenant bridge-domain first-hop-security statistics dhcpv4

```
show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD bridge-domain WORD first-hop-security statistics
dhcpv4
```

**Description:** Show Bridge-domain First Hop Security DHCPv4 Statistics

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD bridge-domain WORD
first-hop-security statistics dhcpv4
```

# show health tenant bridge-domain first-hop-security statistics dhcpv6

**show health** [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant **WORD** bridge-domain **WORD** first-hop-security statistics dhcpv6

**Description:** Show Bridge-domain First Hop Security DHCPv6 Statistics

## Syntax:

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

## Command Path:

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD bridge-domain WORD
first-hop-security statistics dhcpv6
```



# show health tenant bridge-domain first-hop-security statistics neighbor-discovery

**show health** [**history**] [**min-change** <NUMBER>] [**max-hs** <NUMBER>] [**start-time** <YYYY-MM-DDTHR:MIN:SEC>] [**end-time** <YYYY-MM-DDTHR:MIN:SEC>] **tenant** WORD **bridge-domain** WORD **first-hop-security statistics neighbor-discovery**

**Description:** Show Bridge-domain First Hop Security Neighbor Discovery Statistics

**Syntax:**

|      |   |
|------|---|
| WORD | Name of the tenant to filter on (Max Size 63) |
| WORD | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD bridge-domain WORD
first-hop-security statistics neighbor-discovery
```

# show health tenant dnsservergroup

**show health** [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant **WORD** dnsservergroup **WORD**

**Description:** Show Dns Server Group Information

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63)                              |
| <i>WORD</i> | Name of the dns server group we eventually want to filter on (Max Size 16) |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD dnsservergroup WORD
```

## show health tenant dnsservergroup server

**show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD dnsservergroup WORD server WORD**

**Description:** Show Dns Server Information

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63)                              |
| <i>WORD</i> | Name of the dns server group we eventually want to filter on (Max Size 16) |
| <i>WORD</i> | IP of server we eventually want to filter on (Max Size None)               |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD dnsservergroup WORD
server WORD
```

# show health tenant dnsservergroup server domain

**show health** [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant **WORD** dnsservergroup **WORD** server **WORD** domain **WORD**

**Description:** Show Dns Domain Information

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63)                              |
| <i>WORD</i> | Name of the dns server group we eventually want to filter on (Max Size 16) |
| <i>WORD</i> | IP of server we eventually want to filter on (Max Size None)               |
| <i>WORD</i> | Domain we eventually want to filter on (Max Size 512)                      |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD dnsservergroup WORD
server WORD domain WORD
```

# show health tenant interface bridge-domain

**show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD interface bridge-domain WORD**

**Description:** Show Bridge-domain Information

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time  
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD interface  
bridge-domain WORD
```

# show health tenant interface bridge-domain detail

**show health** [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant **WORD** interface bridge-domain **WORD** detail

**Description:** Show Bridge-domain Detailed Information

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD interface
bridge-domain WORD detail
```

# show health tenant interface bridge-domain first-hop-security binding-table

**show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD interface bridge-domain WORD first-hop-security binding-table**

**Description:** Show Bridge-domain Binding Table Information

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD interface bridge-domain WORD first-hop-security binding-table
```

# show health tenant interface bridge-domain first-hop-security statistics arp

**show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD interface bridge-domain WORD first-hop-security statistics arp**

**Description:** Show Bridge-domain First Hop Security ARP Statistics

## Syntax:

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

## Command Path:

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD interface
bridge-domain WORD first-hop-security statistics arp
```



# show health tenant interface bridge-domain first-hop-security statistics dhcpv4

```
show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD interface bridge-domain WORD first-hop-security
statistics dhcpv4
```

**Description:** Show Bridge-domain First Hop Security DHCPv4 Statistics

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD interface
bridge-domain WORD first-hop-security statistics dhcpv4
```

# show health tenant interface bridge-domain first-hop-security statistics dhcpv6

**show health** [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD interface bridge-domain WORD first-hop-security statistics dhcpv6

**Description:** Show Bridge-domain First Hop Security DHCPv6 Statistics

## Syntax:

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

## Command Path:

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD interface
bridge-domain WORD first-hop-security statistics dhcpv6
```

# show health tenant interface bridge-domain first-hop-security statistics neighbor-discovery

**show health** [**history**] [**min-change** <NUMBER>] [**max-hs** <NUMBER>] [**start-time** <YYYY-MM-DDTHR:MIN:SEC>] [**end-time** <YYYY-MM-DDTHR:MIN:SEC>] **tenant** WORD **interface** bridge-domain WORD **first-hop-security** **statistics** neighbor-discovery

**Description:** Show Bridge-domain First Hop Security Neighbor Discovery Statistics

**Syntax:**

|      |   |
|------|---|
| WORD | Name of the tenant to filter on (Max Size 63) |
| WORD | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD interface bridge-domain WORD first-hop-security statistics neighbor-discovery
```

# show health tenant multicast-route-maps

**show health** [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant **WORD** multicast-route-maps

**Description:** Show multicast route-maps per Tenant

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
|-------------|---|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time  
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD multicast-route-maps
```

# show health tenant vrf

**show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD vrf WORD**

**Description:** Show VRF Information

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD vrf WORD
```

## show health tenant vrf aclog l2

**show health** [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD vrf WORD aclog <permitDrop> l2 flow vlan <NUMBER> srcintf <srcintf>

**Description:** L2 flow stats

### Syntax:

|                   |  |
|-------------------|--|
| <i>WORD</i>       | Name of the tenant to filter on (Max Size 63)      |
| <i>WORD</i>       | Name of the VRF to filter on (Max Size 64)         |
| <i>permitDrop</i> | permitDrop   |
| flow              | flowi stats  |
| vlan              | vlan info  |
| <vlan>            | <vlan>. Number range from=0 to=9223372036854775807 |
| srcintf           | source interface                                   |
| <srcintf>         | <srcintf>  |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD vrf WORD aclog
<permitDrop> l2 flow vlan <NUMBER> srcintf <srcintf>
```

## show health tenant vrf aclog l3

**show health** [**history**] [**min-change** <NUMBER>] [**max-hs** <NUMBER>] [**start-time** <YYYY-MM-DDTHR:MIN:SEC>] [**end-time** <YYYY-MM-DDTHR:MIN:SEC>] **tenant** WORD **vrf** WORD **aclog** <permitDrop> **l3** **flow** **srcpctag** <srcpctag> **dstpctag** <dstpctag> **srcepgname** <srcepgname> **dstepgname** <dstepgname> **srcip** <A.B.C.D or A:B::C:D> **dstip** <A.B.C.D or A:B::C:D> **proto** <proto> **srcport** <srcport> **dstport** <dstport> **srcintf** <srcintf>

**Description:** L3 flow stats

**Syntax:**

|                     |  |
|---------------------|--|
| WORD                | Name of the tenant to filter on (Max Size 63)                              |
| WORD                | Name of the VRF to filter on (Max Size 64)                                 |
| permitDrop          | permitDrop   |
| flow                | flow stats   |
| srcpctag            | source pc tag  |
| <srcpctag>          | <srcpctag>   |
| dstpctag            | destination pc tag   |
| <dstpctag>          | <dstpctag>   |
| srcepgname          | source epg name  |
| <srcepgname>        | <srcepgname>   |
| dstepgname          | destination epg name   |
| <dstepgname>        | <dstepgname>   |
| srcip               | source ip  |
| A.B.C.D or A:B::C:D | IP address in format i.i.i.i or IPv6 address in format xxxx:xxxx, xxxx::xx |
| dstip               | destination ip   |
| A.B.C.D or A:B::C:D | IP address in format i.i.i.i or IPv6 address in format xxxx:xxxx, xxxx::xx |
| proto               | protocol   |
| <proto>             | <proto>  |
| srcport             | source port  |
| <srcport>           | <srcport>  |
| dstport             | destination port   |
| <dstport>           | <dstport>  |

|           |                  |
|-----------|------------------|
| srcintf   | source interface |
| <srcintf> | <srcintf>        |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD vrf WORD aclog
<permitDrop> l3 flow srcpctag <srcpctag> dstpctag <dstpctag> srcepname <srcepname>
dstepname <dstepname> srcip <A.B.C.D or A:B::C:D> dstip <A.B.C.D or A:B::C:D> proto <proto>
srcport <srcport> dstport <dstport> srcintf <srcintf>
```



# show health tenant vrf detail

**show health** [**history**] [**min-change** <NUMBER>] [**max-hs** <NUMBER>] [**start-time** <YYYY-MM-DDTHR:MIN:SEC>] [**end-time** <YYYY-MM-DDTHR:MIN:SEC>] **tenant** WORD **vrf** WORD **detail**

**Description:** Show detailed view of VRF

**Syntax:**

|      |   |
|------|---|
| WORD | Name of the tenant to filter on (Max Size 63) |
| WORD | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time  
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD vrf WORD detail
```

## show health tenant vrf external-l3 bgp

**show health** [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant **WORD** vrf **WORD** external-l3 bgp

**Description:** Show command for BGP peers

### Syntax:

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD vrf WORD external-l3
bgp
```

## show health tenant vrf external-l3 bgp node

**show health** [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant **WORD** vrf **WORD** external-l3 bgp node <101-4000>

**Description:** node to filter on

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |
| <101-4000>  | Leaf Range or Leaf Name List                  |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time  
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD vrf WORD external-l3  
bgp node <101-4000>
```

## show health tenant vrf external-l3 eigrp

**show health** [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD vrf WORD external-l3 eigrp

**Description:** Show external l3 EIGRP

### Syntax:

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD vrf WORD external-l3
eigrp
```

# show health tenant vrf external-l3 eigrp detail

**show health** [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant **WORD** vrf **WORD** external-l3 eigrp detail

**Description:** Show interanl details

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time  
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD vrf WORD external-l3  
eigrp detail
```

## show health tenant vrf external-l3 epg

**show health** [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD vrf WORD external-l3 epg <epgName>

**Description:** Show command for external-l3 epgs

### Syntax:

|                        |   |
|------------------------|---|
| <i>WORD</i>            | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i>            | Name of the VRF to filter on (Max Size 64)    |
| <i>&lt;epgName&gt;</i> | Name of the EPG to filter on                  |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD vrf WORD external-l3
epg <epgName>
```

## show health tenant vrf external-l3 epg detail

**show health** [**history**] [**min-change** <NUMBER>] [**max-hs** <NUMBER>] [**start-time** <YYYY-MM-DDTHR:MIN:SEC>] [**end-time** <YYYY-MM-DDTHR:MIN:SEC>] **tenant** WORD **vrf** WORD **external-l3** epg <epgName> **detail**

**Description:** external-l3 epg in detail with operational status

**Syntax:**

|           |   |
|-----------|---|
| WORD      | Name of the tenant to filter on (Max Size 63) |
| WORD      | Name of the VRF to filter on (Max Size 64)    |
| <epgName> | Name of the EPG to filter on                  |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time  
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD vrf WORD external-l3  
epg <epgName> detail
```

## show health tenant vrf external-l3 epg name

**show health** [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD vrf WORD external-l3 epg <epgName> name <epgName>

**Description:** EPG name to filter on

### Syntax:

|                        |   |
|------------------------|---|
| <i>WORD</i>            | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i>            | Name of the VRF to filter on (Max Size 64)    |
| <i>&lt;epgName&gt;</i> | Name of the EPG to filter on                  |
| <i>&lt;epgName&gt;</i> | Name of the EPG to filter on                  |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD vrf WORD external-l3
epg <epgName> name <epgName>
```



# show health tenant vrf external-l3 epg name detail

```
show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD vrf WORD external-l3 epg <epgName> name
<epgName> detail
```

**Description:** external-l3 epg in detail with operational status

**Syntax:**

|                        |   |
|------------------------|---|
| <i>WORD</i>            | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i>            | Name of the VRF to filter on (Max Size 64)    |
| <i>&lt;epgName&gt;</i> | Name of the EPG to filter on                  |
| <i>&lt;epgName&gt;</i> | Name of the EPG to filter on                  |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD vrf WORD external-l3
epg <epgName> name <epgName> detail
```

## show health tenant vrf external-l3 interfaces

**show health** [*history*] [*min-change* <NUMBER>] [*max-hs* <NUMBER>] [*start-time* <YYYY-MM-DDTHR:MIN:SEC>] [*end-time* <YYYY-MM-DDTHR:MIN:SEC>] **tenant** WORD **vrf** WORD **external-l3 interfaces**

**Description:** Show tenant <tenant> vrf <vrf> external l3 interfaces

### Syntax:

|      |   |
|------|---|
| WORD | Name of the tenant to filter on (Max Size 63) |
| WORD | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD vrf WORD external-l3
interfaces
```

# show health tenant vrf external-l3 interfaces detail

**show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD vrf WORD external-l3 interfaces detail**

**Description:** Show interfaces details

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time  
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD vrf WORD external-l3  
interfaces detail
```

## show health tenant vrf external-l3 ospf

**show health** [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant **WORD** vrf **WORD** external-l3 ospf

**Description:** Show command for IPv4 and IPv6 external l3 OSPF configuration

### Syntax:

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD vrf WORD external-l3
ospf
```

# show health tenant vrf external-l3 ospf detail

**show health** [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant **WORD** vrf **WORD** external-l3 ospf detail

**Description:** Show internal details

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time  
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD vrf WORD external-l3  
ospf detail
```

## show health tenant vrf external-l3 scale

**show health** [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD vrf WORD external-l3 scale

**Description:** scale command

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD vrf WORD external-l3
scale
```

# show health tenant vrf external-l3 scale detail

**show health** [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant **WORD** vrf **WORD** external-l3 scale detail

**Description:** Show scale details

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time  
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD vrf WORD external-l3  
scale detail
```

## show health tenant vrf external-l3 static-route

**show health** [*history*] [*min-change* <NUMBER>] [*max-hs* <NUMBER>] [*start-time* <YYYY-MM-DDTHR:MIN:SEC>] [*end-time* <YYYY-MM-DDTHR:MIN:SEC>] *tenant* WORD *vrf* WORD *external-l3* *static-route*

**Description:** Show command for external-l3 static routes

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD vrf WORD external-l3
static-route
```



## show health tenant vrf external-l3 static-route detail

**show health** [**history**] [**min-change** <NUMBER>] [**max-hs** <NUMBER>] [**start-time** <YYYY-MM-DDTHR:MIN:SEC>] [**end-time** <YYYY-MM-DDTHR:MIN:SEC>] **tenant** WORD **vrf** WORD **external-l3** **static-route** **detail**

**Description:** static-route in detail with operational status

**Syntax:**

|      |   |
|------|---|
| WORD | Name of the tenant to filter on (Max Size 63) |
| WORD | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time  
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD vrf WORD external-l3  
static-route detail
```

## show health tenant vrf external-l3 static-route node

**show health** [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD vrf WORD external-l3 static-route node

**Description:** node to filter on

### Syntax:

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |
| <i>arg</i>  | Leaf Range or Leaf Name List                  |

**Command Mode:** exec : Exec Mode

### Command Path:

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD vrf WORD external-l3
static-route node
```

## show health tenant vrf external-l3 static-route node detail

**show health** [**history**] [**min-change** <NUMBER>] [**max-hs** <NUMBER>] [**start-time** <YYYY-MM-DDTHR:MIN:SEC>] [**end-time** <YYYY-MM-DDTHR:MIN:SEC>] **tenant** WORD **vrf** WORD **external-l3** **static-route** **node** **detail**

**Description:** static-route in detail with operational status

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |
| <i>arg</i>  | Leaf Range or Leaf Name List                  |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time  
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD vrf WORD external-l3  
static-route node detail
```

## show health tenant vrf multicast

**show health** [*history*] [*min-change* <NUMBER>] [*max-hs* <NUMBER>] [*start-time* <YYYY-MM-DDTHR:MIN:SEC>] [*end-time* <YYYY-MM-DDTHR:MIN:SEC>] **tenant** *WORD* **vrf** *WORD* **multicast**

**Description:** Show multicast configuration per VRF

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show health [history] [min-change <NUMBER>] [max-hs <NUMBER>] [start-time
<YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] tenant WORD vrf WORD multicast
```

# show inband-mgmt

**show inband-mgmt**

**Description:** Show inband mgmt eggs on all the nodes

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show inband-mgmt
```

# show inband-mgmt controller

**show inband-mgmt controller** <controller-id> [epg <WORD>]

**Description:** show inband mgmt eps on the controller

**Syntax:**

|                 |                                     |
|-----------------|-------------------------------------|
| <controller-id> |                                     |
| WORD            | (Optional) Epg Name of consumer epg |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show inband-mgmt controller <controller-id> [epg <WORD>]
```

# show inband-mgmt switch

**show inband-mgmt switch** <switch-id> [epg <WORD>]

**Description:** Show inband mgmt epgs on the node

**Syntax:**

|             |                     |
|-------------|---------------------|
| <switch-id> |                     |
| WORD        | (Optional) Epg Name |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show inband-mgmt switch <switch-id> [epg <WORD>]
```

# show interface bridge-domain

**show interface bridge-domain WORD**

**Description:** Show Bridge-domain Information

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the bridge-domain (Max Size 64) |
|-------------|---|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show interface bridge-domain WORD
```



# show interface bridge-domain detail

**show interface bridge-domain WORD detail**

**Description:** Show Bridge-domain Detailed Information

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the bridge-domain (Max Size 64) |
|-------------|---|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show interface bridge-domain WORD detail
```

# show interface bridge-domain first-hop-security binding-table

**show interface bridge-domain WORD first-hop-security binding-table**

**Description:** Show Bridge-domain Binding Table Information

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the bridge-domain (Max Size 64) |
|-------------|---|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show interface bridge-domain WORD first-hop-security binding-table
```

# show interface bridge-domain first-hop-security statistics arp

**show interface bridge-domain WORD first-hop-security statistics arp**

**Description:** Show Bridge-domain First Hop Security ARP Statistics

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the bridge-domain (Max Size 64) |
|-------------|---|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show interface bridge-domain WORD first-hop-security statistics arp
```

# show interface bridge-domain first-hop-security statistics dhcpv4

**show interface bridge-domain WORD first-hop-security statistics dhcpv4**

**Description:** Show Bridge-domain First Hop Security DHCPv4 Statistics

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the bridge-domain (Max Size 64) |
|-------------|---|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show interface bridge-domain WORD first-hop-security statistics dhcpv4
```

# show interface bridge-domain first-hop-security statistics dhcpv6

**show interface bridge-domain WORD first-hop-security statistics dhcpv6**

**Description:** Show Bridge-domain First Hop Security DHCPv6 Statistics

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the bridge-domain (Max Size 64) |
|-------------|---|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show interface bridge-domain WORD first-hop-security statistics dhcpv6
```

# show interface bridge-domain first-hop-security statistics neighbor-discovery

**show interface bridge-domain WORD first-hop-security statistics neighbor-discovery**

**Description:** Show Bridge-domain First Hop Security Neighbor Discovery Statistics

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the bridge-domain (Max Size 64) |
|-------------|---|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show interface bridge-domain WORD first-hop-security statistics neighbor-discovery
```

# show ip interface bridge-domain

**show ip interface bridge-domain WORD**

**Description:** Show Bridge-domain Information

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the bridge-domain (Max Size 64) |
|-------------|---|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show ip interface bridge-domain WORD
```

# show ipv6 interface bridge-domain

**show ipv6 interface bridge-domain WORD**

**Description:** Show Bridge-domain Information

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the bridge-domain (Max Size 64) |
|-------------|---|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show ipv6 interface bridge-domain WORD
```



# show l4l7-cluster

**show l4l7-cluster** [tenant <Tenant Name>] [cluster <Device Cluster Name>]

**Description:** Show L4 L7 Device information

**Syntax:**

|                            |                           |
|----------------------------|---------------------------|
| <i>Tenant Name</i>         | (Optional) Name of Tenant |
| <i>Device Cluster Name</i> | (Optional) Name of Device |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show l4l7-cluster [tenant <Tenant Name>] [cluster <Device Cluster Name>]
```

# show l4l7-graph

**show l4l7-graph** [tenant <Tenant Name>] [graph <Graph Name>]

**Description:** Show L4 L7 Graph information

**Syntax:**

|               |                           |
|---------------|---------------------------|
| <Tenant Name> | (Optional) Name of Tenant |
| <Graph Name>  | (Optional) Name of Graph  |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show l4l7-graph [tenant <Tenant Name>] [graph <Graph Name>]
```

# show l4l7-package

**show l4l7-package**

**Description:** Show L4-L7 package information

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show l4l7-package
```

# show ldap-server

**show ldap-server**

**Description:** Show LDAP server information

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show ldap-server
```

# show license all

**show license all**

**Description:** Show license all

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show license all
```

# show license catalog

**show license catalog**

**Description:** Show license catalog

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show license catalog
```

# show license hostname

**show license hostname privacy**

**Description:** Show license hostname

**Syntax:**

|         |         |
|---------|---------|
| privacy | privacy |
|---------|---------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show license hostname privacy
```

# show license status

**show license status**

**Description:** Show license status

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show license status
```



# show license summary

**show license summary**

**Description:** Show license summary

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show license summary
```

# show license tech

## show license tech support

**Description:** Show license tech support

**Syntax:**

|         |             |
|---------|-------------|
| support | techsupport |
|---------|-------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show license tech support
```

# show license transport-mode

**show license transport-mode**

**Description:** Displaying smart licensing transport mode

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show license transport-mode
```

# show license udi

**show license udi**

**Description:** Display device udi

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show license udi
```

# show license usage

**show license usage**

**Description:** Show license usage

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show license usage
```

# show locator-led

## show locator-led status

**Description:** Show command for locator-led

**Syntax:**

|        |                    |
|--------|--------------------|
| status | locator-led status |
|--------|--------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show locator-led status
```

# show locator-led status leaf

**show locator-led status leaf**

**Description:** Leaf to filter on

**Syntax:**

|            |                              |
|------------|------------------------------|
| status     | locator-led status           |
| <i>arg</i> | Leaf Range or Leaf Name List |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show locator-led status leaf
```

# show macsec interface

**show macsec interface switch <101-4000>**

**Description:** interface

**Syntax:**

|            |           |
|------------|-----------|
| switch     | switch    |
| <101-4000> | switch ID |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show macsec interface switch <101-4000>
```



# show macsec policy

**show macsec policy** <WORD>

**Description:** Show macsec policies

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Node Number (Max Size 4000). Number range from=0 to=9223372036854775807 |
|-------------|---|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show macsec policy <WORD>
```

# show microsoft domain

**show microsoft domain**

**Description:** Show Microsoft domain information

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show microsoft domain
```

# show microsoft domain name

**show microsoft domain name** <WORD>

**Description:** Microsoft domain name

**Syntax:**

|             |                       |
|-------------|-----------------------|
| <i>WORD</i> | Microsoft domain name |
|-------------|-----------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show microsoft domain name <WORD>
```

# show microsoft domain name hyperv

**show microsoft domain name** <WORD> hyperv <WORD>

**Description:** Show Microsoft Hypervisor information

**Syntax:**

|             |                       |
|-------------|-----------------------|
| <i>WORD</i> | Microsoft domain name |
| <i>WORD</i> | HyperV hostname       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show microsoft domain name <WORD> hyperv <WORD>
```

# show microsoft domain name port-group

**show microsoft domain name <WORD> port-group**

**Description:** Show Microsoft port group information

**Syntax:**

|             |                       |
|-------------|-----------------------|
| <i>WORD</i> | Microsoft domain name |
|-------------|-----------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show microsoft domain name <WORD> port-group
```

# show microsoft domain name scvmm

**show microsoft domain name** <WORD> scvmm <hostname|ip>

**Description:** Show Microsoft SCVMM information

**Syntax:**

|               |                       |
|---------------|-----------------------|
| <i>WORD</i>   | Microsoft domain name |
| <hostname ip> | SCVMM hostname or IP  |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show microsoft domain name <WORD> scvmm <hostname|ip>
```

# show microsoft domain name vm

**show microsoft domain name <WORD> vm**

**Description:** Show Microsoft VM information

**Syntax:**

|             |                       |
|-------------|-----------------------|
| <i>WORD</i> | Microsoft domain name |
|-------------|-----------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show microsoft domain name <WORD> vm
```

# show microsoft domain name vm name

**show microsoft domain name** <WORD> **vm name** <WORD>

**Description:** Show detailed Microsoft VM information

**Syntax:**

|             |                       |
|-------------|-----------------------|
| <i>WORD</i> | Microsoft domain name |
| <i>WORD</i> | VM Name               |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show microsoft domain name <WORD> vm name <WORD>
```



# show microsoft vm

**show microsoft vm** [name <WORD>] [ip <A.B.C.D>] [mac <AA:BB:CC:DD:EE:FF>]

**Description:** Show Microsoft VM information

**Syntax:**

|                          |                                     |
|--------------------------|-------------------------------------|
| <i>WORD</i>              | (Optional) Specify a VM name        |
| <i>A.B.C.D</i>           | (Optional) Specify a VM IP address  |
| <i>AA:BB:CC:DD:EE:FF</i> | (Optional) Specify a VM MAC address |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show microsoft vm [name <WORD>] [ip <A.B.C.D>] [mac <AA:BB:CC:DD:EE:FF>]
```

# show monitor access

**show monitor access session session\_name**

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

**Syntax:**

|                     |              |
|---------------------|--------------|
| session             | session      |
| <i>session_name</i> | session name |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show monitor access session session_name
```

# show monitor fabric

**show monitor fabric session session\_name**

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

**Syntax:**

|                     |              |
|---------------------|--------------|
| session             | session      |
| <i>session_name</i> | session name |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show monitor fabric session session_name
```

# show monitor summary

**show monitor summary**

**Description:** Show brief summary of all non-virtual monitor sessions

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show monitor summary
```

# show monitor tenant

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

**Description:** Show monitor session for tenant

**Syntax:**

|                     |              |
|---------------------|--------------|
| <i>tenant_name</i>  | tenant       |
| session             | session      |
| <i>session_name</i> | session name |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show monitor tenant <tenant_name> session session_name
```

# show monitor virtual

**show monitor virtual session WORD**

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

**Syntax:**

|             |              |
|-------------|--------------|
| session     | session      |
| <i>WORD</i> | Session name |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show monitor virtual session WORD
```

# show name-alias tenant

**show name-alias tenant WORD**

**Description:** Show corresponding tenants for Alias

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant Alias to filter on (Max Size 63) |
|-------------|---|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show name-alias tenant WORD
```

# show name-alias tenant acl

**show name-alias tenant WORD acl WORD**

**Description:** Show Acl Name for alias

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant Alias to filter on (Max Size 63) |
| <i>WORD</i> | Name of the Acl Alias to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show name-alias tenant WORD acl WORD
```



# show name-alias tenant application

**show name-alias tenant WORD application WORD**

**Description:** Show Application Name for alias

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Name of the tenant Alias to filter on (Max Size 63)      |
| <i>WORD</i> | Name of the application Alias to filter on (Max Size 64) |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show name-alias tenant WORD application WORD
```

# show name-alias tenant application epg

**show name-alias tenant WORD application WORD epg WORD**

**Description:** Show EndPoint Group Name for alias

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Name of the tenant Alias to filter on (Max Size 63)      |
| <i>WORD</i> | Name of the application Alias to filter on (Max Size 64) |
| <i>WORD</i> | Name of the epg Alias to filter on (Max Size 64)         |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show name-alias tenant WORD application WORD epg WORD
```

# show name-alias tenant bridge-domain

**show name-alias tenant WORD bridge-domain WORD**

**Description:** Show Bridge-Domain Name for alias

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Name of the tenant Alias to filter on (Max Size 63)        |
| <i>WORD</i> | Name of the bridge-domain Alias to filter on (Max Size 63) |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show name-alias tenant WORD bridge-domain WORD
```

# show name-alias tenant contract

**show name-alias tenant WORD contract WORD**

**Description:** Show Contract Name for alias

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant Alias to filter on (Max Size 63)   |
| <i>WORD</i> | Name of the contract Alias to filter on (Max Size 64) |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show name-alias tenant WORD contract WORD
```

# show name-alias tenant contract subject

**show name-alias tenant WORD contract WORD subject WORD**

**Description:** Show Subject Name for alias

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant Alias to filter on (Max Size 63)   |
| <i>WORD</i> | Name of the contract Alias to filter on (Max Size 64) |
| <i>WORD</i> | Name of the Subject Alias to filter on (Max Size 64)  |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show name-alias tenant WORD contract WORD subject WORD
```

# show name-alias tenant l3out

**show name-alias tenant WORD l3out WORD**

**Description:** Show L3out Name for alias

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant Alias to filter on (Max Size 63) |
| <i>WORD</i> | Name of the L3out Alias to filter on (Max Size 64)  |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show name-alias tenant WORD l3out WORD
```

# show name-alias tenant vrf

**show name-alias tenant WORD vrf WORD**

**Description:** Show Vrf Name for alias

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant Alias to filter on (Max Size 63) |
| <i>WORD</i> | Name of the vrf Alias to filter on (Max Size 63)    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show name-alias tenant WORD vrf WORD
```

# show ntpq

**show ntpq**

**Description:** Show ntpq information

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show ntpq
```



# show oob-mgmt

**show oob-mgmt**

**Description:** Show Out of band Information

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show oob-mgmt
```

# show oob-mgmt controller

**show oob-mgmt controller** <controller-id> [epg <WORD>]

**Description:** Show oob mgmt epgs on the controller, enter one

**Syntax:**

|                 |                                     |
|-----------------|-------------------------------------|
| <controller-id> |                                     |
| WORD            | (Optional) Epg Name of consumer epg |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show oob-mgmt controller <controller-id> [epg <WORD>]
```

# show oob-mgmt switch

**show oob-mgmt switch** <switch-id> [epg <WORD>]

**Description:** Show oob mgmt epgs on the node, enter one

**Syntax:**

|             |                                     |
|-------------|-------------------------------------|
| <switch-id> |                                     |
| WORD        | (Optional) Epg Name of consumer epg |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show oob-mgmt switch <switch-id> [epg <WORD>]
```

# show pd-recovery status

**show pd-recovery status**

**Description:** Show policydist shard recovery from policymgr shards status

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show pd-recovery status
```

# show policy-map

**show policy-map**

**Description:** Show policy maps

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show policy-map
```

# show policy-map type data-plane

**show policy-map type data-plane infra WORD [stats]**

**Description:** Data-plane type policy-map(s)

**Syntax:**

|             |   |
|-------------|---|
| infra       | Global data-plane policy-map(s)                           |
| <i>WORD</i> | data-plane type policy-map(s) (Max Size 64)               |
| stats       | (Optional) Data-Plane Policer Statistics, where available |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show policy-map type data-plane infra WORD [stats]
```

# show policy-map type qos

**show policy-map type qos WORD**

**Description:** QOS type policy-map(s)

**Syntax:**

|             |                                      |
|-------------|--------------------------------------|
| <i>WORD</i> | QOS type policy-map(s) (Max Size 64) |
|-------------|--------------------------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show policy-map type qos WORD
```

# show port-channel leaf

**show port-channel leaf** *WORD* <port-channel-list>

**Description:** Show leaf port-channel info

**Syntax:**

|                              |                              |
|------------------------------|------------------------------|
| <i>WORD</i>                  | Leaf Range or Leaf Name List |
| < <i>port-channel-list</i> > | port channel names           |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show port-channel leaf WORD <port-channel-list>
```



# show port-channel map

**show port-channel map** <port-channel-list>

**Description:** Show port-channel mapping

**Syntax:**

|                     |                    |
|---------------------|--------------------|
| <port-channel-list> | port channel names |
|---------------------|--------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show port-channel map <port-channel-list>
```

# show port-channel map leaf

**show port-channel map** <port-channel-list> leaf **WORD** [fex <101-199>]

**Description:** Leaf

**Syntax:**

|                     |                              |
|---------------------|------------------------------|
| <port-channel-list> | port channel names           |
| WORD                | Leaf Range or Leaf Name List |
| <101-199>           | (Optional) Fex ID            |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show port-channel map <port-channel-list> leaf WORD [fex <101-199>]
```

# show pwd-rules

**show pwd-rules**

**Description:** Show Password Rules

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show pwd-rules
```

# show quota

**show quota**

**Description:** Show Quotas Information

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show quota
```

# show radius-server

**show radius-server**

**Description:** Show RADIUS server information

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show radius-server
```

# show redhat domain

**show redhat domain**

**Description:** Show Redhat domain information

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show redhat domain
```

# show redhat domain name

**show redhat domain name <name>**

**Description:** Redhat domain name

**Syntax:**

|                     |                    |
|---------------------|--------------------|
| <i>&lt;name&gt;</i> | Redhat domain name |
|---------------------|--------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show redhat domain name <name>
```

# show redhat domain name epg

**show redhat domain name <name> epg**

**Description:** Show Redhat domain EPG details

**Syntax:**

|                     |                    |
|---------------------|--------------------|
| <i>&lt;name&gt;</i> | Redhat domain name |
|---------------------|--------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show redhat domain name <name> epg
```



# show redhat domain name rhev

**show redhat domain name** <name> rhev <hostname|ip>

**Description:** RHEV ip or hostname

**Syntax:**

|               |                     |
|---------------|---------------------|
| <name>        | Redhat domain name  |
| <hostname ip> | rhev hostname or IP |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show redhat domain name <name> rhev <hostname|ip>
```

# show resource

## show resource conflict encap-vlan

**Description:** Show resource information

**Syntax:**

|            |   |
|------------|---|
| conflict   | show resource conflicts in APIC               |
| encap-vlan | show resource conflicts of encap-vlan in APIC |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show resource conflict encap-vlan
```

# show resource conflict encap-vlan epg

**show resource conflict encap-vlan epg <WORD>**

**Description:** Epg Name

**Syntax:**

|             |   |
|-------------|---|
| conflict    | show resource conflicts in APIC               |
| encap-vlan  | show resource conflicts of encap-vlan in APIC |
| <i>WORD</i> | Epg Name                                      |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show resource conflict encap-vlan epg <WORD>
```

# show resource conflict encap-vlan epg node

**show resource conflict encap-vlan epg** <WORD> node <101-4000>

**Description:** Node ID

**Syntax:**

|             |   |
|-------------|---|
| conflict    | show resource conflicts in APIC               |
| encap-vlan  | show resource conflicts of encap-vlan in APIC |
| <i>WORD</i> | Epg Name                                      |
| <101-4000>  | Leaf ID                                       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show resource conflict encap-vlan epg <WORD> node <101-4000>
```

# show role

**show role**

**Description:** Show information about AAA Roles

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show role
```

# show rsa-server

**show rsa-server**

**Description:** Show RSA server information

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show rsa-server
```

# show running-config

**show running-config [all] <scope>**

**Description:** Show running configuration

**Syntax:**

|         |  |
|---------|--|
| all     | (Optional) Show running-config with defaults |
| <scope> | command scope                                |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show running-config [all] <scope>
```

# show sessions

**show sessions** [*id* <log-id>] [*action* *action*<action-type>] [*user* <user-name>] [*last-minutes* <NUMBER>] [*last-hours* <NUMBER>] [*last-days* <NUMBER>] [*start-time* <YYYY-MM-DDTHR:MIN:SEC>] [*end-time* *end-time* <YYYY-MM-DDTHR:MIN:SEC>] [*detail*] <scope>

**Description:** Show session-log information

## Syntax:

|  |   |
|--|---|
| <log-id>                                   | (Optional) Log ID   |
| <i>action</i> <action-type>                | (Optional) Object action indicator  |
| <user-name>                                | (Optional) Name of user   |
| <num-minutes>                              | (Optional) Logs created in time interval. Number range from=1 to=59                                       |
| <num-hours>                                | (Optional) Logs created in time interval. Number range from=1 to=23                                       |
| <num-days>                                 | (Optional) Logs created in time interval. Number range from=1 to=999                                      |
| <YYYY-MM-DDTHR:MIN:SEC>                    | (Optional) Logs created in time interval  |
| <i>end-time</i><br><YYYY-MM-DDTHR:MIN:SEC> | (Optional) Logs created in time interval  |
| <i>detail</i>                              | (Optional) Detailed session-log information. Displays the action trigger that shows why a login occurred. |
| <scope>                                    | command scope   |

**Command Mode:** exec : Exec Mode

## Command Path:

```
# show sessions [id <log-id>] [action action<action-type>] [user <user-name>] [last-minutes
<NUMBER>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>]
[end-time end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] <scope>
```



# show sessions controller

**show sessions** [id <log-id>] [action <action-type>] [user <user-name>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] controller

**Description:** Show controller information

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show sessions [id <log-id>] [action <action-type>] [user <user-name>] [last-hours <NUMBER>]
[last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>]
[detail] controller
```

# show sessions controller detail

**show sessions** [id <log-id>] [action <action-type>] [user <user-name>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] controller detail [id <node-id>]

**Description:** Detailed controller information

**Syntax:**

|                |                                   |
|----------------|-----------------------------------|
| <i>node-id</i> | (Optional) Optional Serial number |
|----------------|-----------------------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show sessions [id <log-id>] [action <action-type>] [user <user-name>] [last-hours <NUMBER>]
[last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>]
[detail] controller detail [id <node-id>]
```

# show sessions leaf

**show sessions** [id <log-id>] [action <action-type>] [user <user-name>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] leaf <leafId>

**Description:** Show command for leaf

**Syntax:**

|          |         |
|----------|---------|
| <leafId> | Leaf id |
|----------|---------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show sessions [id <log-id>] [action <action-type>] [user <user-name>] [last-hours <NUMBER>]
[last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>]
[detail] leaf <leafId>
```

# show sessions spine

**show sessions** [id <log-id>] [action <action-type>] [user <user-name>] [last-hours <NUMBER>] [last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>] [detail] spine <leafId>

**Description:** Show command for spine

**Syntax:**

|          |         |
|----------|---------|
| <leafId> | Leaf id |
|----------|---------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show sessions [id <log-id>] [action <action-type>] [user <user-name>] [last-hours <NUMBER>]
[last-days <NUMBER>] [start-time <YYYY-MM-DDTHR:MIN:SEC>] [end-time <YYYY-MM-DDTHR:MIN:SEC>]
[detail] spine <leafId>
```

# show snapshot active

## show snapshot active job

**Description:** Show command for active snapshot job

**Syntax:**

|     |                          |
|-----|--------------------------|
| job | View active snapshot job |
|-----|--------------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show snapshot active job
```

# show snapshot files

**show snapshot files**

**Description:** Show command for snapshot files

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show snapshot files
```

# show snapshot jobs

**show snapshot jobs <WORD>**

**Description:** Show command for snapshot jobs

**Syntax:**

|             |                      |
|-------------|----------------------|
| <i>WORD</i> | Snapshot policy name |
|-------------|----------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show snapshot jobs <WORD>
```

# show snmp

**show snmp [policy <policy>]**

**Description:** Show snmp policy information

**Syntax:**

|               |                             |
|---------------|-----------------------------|
| <i>policy</i> | (Optional) SNMP policy name |
|---------------|-----------------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show snmp [policy <policy>]
```



# show snmp clientgroups

**show snmp [policy <policy>] clientgroups**

**Description:** Show snmp client group policies

**Syntax:**

|               |                             |
|---------------|-----------------------------|
| <i>policy</i> | (Optional) SNMP policy name |
|---------------|-----------------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show snmp [policy <policy>] clientgroups
```

# show snmp community

**show snmp [policy <policy>] community**

**Description:** Show snmp community information

**Syntax:**

|               |                             |
|---------------|-----------------------------|
| <i>policy</i> | (Optional) SNMP policy name |
|---------------|-----------------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show snmp [policy <policy>] community
```

# show snmp engineid

**show snmp [policy <policy>] engineid**

**Description:** Show snmp v3 engine-id

**Syntax:**

|               |                             |
|---------------|-----------------------------|
| <i>policy</i> | (Optional) SNMP policy name |
|---------------|-----------------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show snmp [policy <policy>] engineid
```

# show snmp hosts

**show snmp [policy <policy>] hosts**

**Description:** Show snmp trap hosts

**Syntax:**

|               |                             |
|---------------|-----------------------------|
| <i>policy</i> | (Optional) SNMP policy name |
|---------------|-----------------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show snmp [policy <policy>] hosts
```

# show snmp summary

**show snmp [policy <policy>] summary**

**Description:** Show snmp summary

**Syntax:**

|               |                             |
|---------------|-----------------------------|
| <i>policy</i> | (Optional) SNMP policy name |
|---------------|-----------------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show snmp [policy <policy>] summary
```

# show snmp users

**show snmp [policy <policy>] users**

**Description:** Show snmp v3 users

**Syntax:**

|               |                             |
|---------------|-----------------------------|
| <i>policy</i> | (Optional) SNMP policy name |
|---------------|-----------------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show snmp [policy <policy>] users
```

# show stats

**show stats granularity <granularity-value> [history] [cumulative] tenant|leaf|spine**

**Description:** Show statistics

**Syntax:**

|                              |   |
|------------------------------|---|
| granularity                  | Choose granularity value                |
| < <i>granularity-value</i> > | <granularity-value>                     |
| history                      | (Optional) historical stats information |
| cumulative                   | (Optional) cumulative stats information |
| <i>tenant</i>                | command scope                           |
| <i>leaf</i>                  | command scope                           |
| <i>spine</i>                 | command scope                           |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show stats granularity <granularity-value> [history] [cumulative] tenant|leaf|spine
```

# show stats granularity communication controller

**show stats granularity <granularity-value> [history] [cumulative] communication controller node-id**

**Description:** Show command for nginx web-requests

**Syntax:**

|                |         |
|----------------|---------|
| <i>node-id</i> | node-id |
|----------------|---------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show stats granularity <granularity-value> [history] [cumulative] communication controller  
node-id
```



# show stats granularity leaf

**show stats granularity <granularity-value> [history] [cumulative] leaf <leafId>**

**Description:** Show command for leaf

**Syntax:**

|                       |         |
|-----------------------|---------|
| <i>&lt;leafId&gt;</i> | Leaf id |
|-----------------------|---------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show stats granularity <granularity-value> [history] [cumulative] leaf <leafId>
```

# show stats granularity leaf fex

**show stats granularity <granularity-value> [history] [cumulative] leaf <leafId> fex <fexNum>**

**Description:** Show extended chassis information

**Syntax:**

|                       |                      |
|-----------------------|----------------------|
| <i>&lt;leafId&gt;</i> | Leaf id              |
| <i>&lt;fexNum&gt;</i> | pls enter fex number |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show stats granularity <granularity-value> [history] [cumulative] leaf <leafId> fex  
<fexNum>
```

# show stats granularity leaf fex module

**show stats granularity <granularity-value> [history] [cumulative] leaf <leafId> fex <fexNum> module <lcSlot>**

**Description:** Show inventory module information

**Syntax:**

|          |                                |
|----------|--------------------------------|
| <leafId> | Leaf id                        |
| <fexNum> | pls enter fex number           |
| <lcSlot> | please enter the module number |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show stats granularity <granularity-value> [history] [cumulative] leaf <leafId> fex  
<fexNum> module <lcSlot>
```

# show stats granularity leaf interface ethernet

**show stats granularity** <granularity-value> [history] [cumulative] leaf <leafId> interface ethernet <phyInt>

**Description:** Ethernet IEEE 802.3z

**Syntax:**

|          |  |
|----------|--|
| <leafId> | Leaf id                                      |
| <phyInt> | <slot or chassis-number/port or slot number> |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show stats granularity <granularity-value> [history] [cumulative] leaf <leafId> interface ethernet <phyInt>
```

# show stats granularity leaf interface fc

**show stats granularity** <granularity-value> [history] [cumulative] leaf <leafId> interface fc <phyInt>

**Description:** Fibre Channel Protocol

**Syntax:**

|          |  |
|----------|--|
| <leafId> | Leaf id                                      |
| <phyInt> | <slot or chassis-number/port or slot number> |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show stats granularity <granularity-value> [history] [cumulative] leaf <leafId> interface  
fc <phyInt>
```

# show stats granularity leaf interface fcportchannel

**show stats granularity <granularity-value> [history] [cumulative] leaf <leafId> interface fcportchannel <portChan>**

**Description:** FC Port channel interface

**Syntax:**

|            |                       |
|------------|-----------------------|
| <leafId>   | Leaf id               |
| <portChan> | <Port channel number> |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show stats granularity <granularity-value> [history] [cumulative] leaf <leafId> interface  
fcportchannel <portChan>
```

# show stats granularity leaf interface mgmt

**show stats granularity <granularity-value> [history] [cumulative] leaf <leafId> interface mgmt <mgmtPort>**

**Description:** Management interface

**Syntax:**

|                         |                               |
|-------------------------|-------------------------------|
| <i>&lt;leafId&gt;</i>   | Leaf id                       |
| <i>&lt;mgmtPort&gt;</i> | <Management interface number> |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show stats granularity <granularity-value> [history] [cumulative] leaf <leafId> interface  
mgmt <mgmtPort>
```

# show stats granularity leaf interface portchannel

**show stats granularity** <granularity-value> [history] [cumulative] leaf <leafId> interface portchannel <portChan>

**Description:** Port channel interface

**Syntax:**

|            |                       |
|------------|-----------------------|
| <leafId>   | Leaf id               |
| <portChan> | <Port channel number> |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show stats granularity <granularity-value> [history] [cumulative] leaf <leafId> interface  
portchannel <portChan>
```



# show stats granularity leaf interface vethernet

**show stats granularity** <granularity-value> [history] [cumulative] leaf <leafId> interface vethernet <phyInt>

**Description:** vethernet ID

**Syntax:**

|          |  |
|----------|--|
| <leafId> | Leaf id                                      |
| <phyInt> | <slot or chassis-number/port or slot number> |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show stats granularity <granularity-value> [history] [cumulative] leaf <leafId> interface  
vethernet <phyInt>
```

# show stats granularity leaf inventory chassis

**show stats granularity <granularity-value> [history] [cumulative] leaf <leafId> inventory chassis**

**Description:** Show inventory chassis information

**Syntax:**

|          |         |
|----------|---------|
| <leafId> | Leaf id |
|----------|---------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show stats granularity <granularity-value> [history] [cumulative] leaf <leafId> inventory chassis
```

# show stats granularity leaf inventory fans

**show stats granularity** <granularity-value> [history] [cumulative] leaf <leafId> inventory fans <ftSlot>

**Description:** Show inventory fan information

**Syntax:**

|          |                           |
|----------|---------------------------|
| <leafId> | Leaf id                   |
| <ftSlot> | pls enter fan tray number |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show stats granularity <granularity-value> [history] [cumulative] leaf <leafId> inventory fans <ftSlot>
```

# show stats granularity leaf inventory powersupply

**show stats granularity** <granularity-value> [history] [cumulative] leaf <leafId> inventory powersupply <psuSlot>

**Description:** Show inventory power supply information

**Syntax:**

|           |                                  |
|-----------|----------------------------------|
| <leafId>  | Leaf id                          |
| <psuSlot> | pls enter the powersupply number |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show stats granularity <granularity-value> [history] [cumulative] leaf <leafId> inventory powersupply <psuSlot>
```

# show stats granularity leaf inventory supervisor

**show stats granularity <granularity-value> [history] [cumulative] leaf <leafId> inventory supervisor <supMod>**

**Description:** Show information for supervisor module

**Syntax:**

|                       |  |
|-----------------------|--|
| <i>&lt;leafId&gt;</i> | Leaf id                                |
| <i>&lt;supMod&gt;</i> | pls enter the supervisor module number |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show stats granularity <granularity-value> [history] [cumulative] leaf <leafId> inventory supervisor <supMod>
```

# show stats granularity spine

**show stats granularity <granularity-value> [history] [cumulative] spine <leafId>**

**Description:** Show command for spine

**Syntax:**

|                       |         |
|-----------------------|---------|
| <i>&lt;leafId&gt;</i> | Leaf id |
|-----------------------|---------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show stats granularity <granularity-value> [history] [cumulative] spine <leafId>
```

# show stats granularity spine interface ethernet

**show stats granularity <granularity-value> [history] [cumulative] spine <leafId> interface ethernet <phyInt>**

**Description:** Ethernet IEEE 802.3z

**Syntax:**

|                       |  |
|-----------------------|--|
| <i>&lt;leafId&gt;</i> | Leaf id                                      |
| <i>&lt;phyInt&gt;</i> | <slot or chassis-number/port or slot number> |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show stats granularity <granularity-value> [history] [cumulative] spine <leafId> interface ethernet <phyInt>
```

# show stats granularity spine interface mgmt

**show stats granularity <granularity-value> [history] [cumulative] spine <leafId> interface mgmt <mgmtPort>**

**Description:** Management interface

**Syntax:**

|                         |                               |
|-------------------------|-------------------------------|
| <i>&lt;leafId&gt;</i>   | Leaf id                       |
| <i>&lt;mgmtPort&gt;</i> | <Management interface number> |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show stats granularity <granularity-value> [history] [cumulative] spine <leafId> interface  
mgmt <mgmtPort>
```



# show stats granularity spine inventory chassis

**show stats granularity <granularity-value> [history] [cumulative] spine <leafId> inventory chassis**

**Description:** Show inventory chassis information

**Syntax:**

|                       |         |
|-----------------------|---------|
| <i>&lt;leafId&gt;</i> | Leaf id |
|-----------------------|---------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show stats granularity <granularity-value> [history] [cumulative] spine <leafId> inventory chassis
```

# show stats granularity spine inventory fabric

**show stats granularity <granularity-value> [history] [cumulative] spine <leafId> inventory fabric <fcMod>**

**Description:** Show information for fabric module

**Syntax:**

|                       |                                    |
|-----------------------|------------------------------------|
| <i>&lt;leafId&gt;</i> | Leaf id                            |
| <i>&lt;fcMod&gt;</i>  | pls enter the fabric module number |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show stats granularity <granularity-value> [history] [cumulative] spine <leafId> inventory fabric <fcMod>
```

# show stats granularity spine inventory fans

**show stats granularity <granularity-value> [history] [cumulative] spine <leafId> inventory fans <ftSlot>**

**Description:** Show inventory fan information

**Syntax:**

|          |                           |
|----------|---------------------------|
| <leafId> | Leaf id                   |
| <ftSlot> | pls enter fan tray number |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show stats granularity <granularity-value> [history] [cumulative] spine <leafId> inventory fans <ftSlot>
```

# show stats granularity spine inventory module

**show stats granularity <granularity-value> [history] [cumulative] spine <leafId> inventory module <lcSlot>**

**Description:** Show inventory module information

**Syntax:**

|                             |                                |
|-----------------------------|--------------------------------|
| <code>&lt;leafId&gt;</code> | Leaf id                        |
| <code>&lt;lcSlot&gt;</code> | please enter the module number |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show stats granularity <granularity-value> [history] [cumulative] spine <leafId> inventory  
module <lcSlot>
```

# show stats granularity spine inventory powersupply

**show stats granularity <granularity-value> [history] [cumulative] spine <leafId> inventory powersupply <psuSlot>**

**Description:** Show inventory power supply information

**Syntax:**

|           |                                  |
|-----------|----------------------------------|
| <leafId>  | Leaf id                          |
| <psuSlot> | pls enter the powersupply number |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show stats granularity <granularity-value> [history] [cumulative] spine <leafId> inventory powersupply <psuSlot>
```

# show stats granularity spine inventory supervisor

**show stats granularity** <granularity-value> [history] [cumulative] spine <leafId> inventory supervisor <supMod>

**Description:** Show information for supervisor module

**Syntax:**

|          |  |
|----------|--|
| <leafId> | Leaf id                                |
| <supMod> | pls enter the supervisor module number |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show stats granularity <granularity-value> [history] [cumulative] spine <leafId> inventory supervisor <supMod>
```

# show stats granularity spine inventory system

**show stats granularity <granularity-value> [history] [cumulative] spine <leafId> inventory system <sysMod>**

**Description:** Show information for system module

**Syntax:**

|                       |                                    |
|-----------------------|------------------------------------|
| <i>&lt;leafId&gt;</i> | Leaf id                            |
| <i>&lt;sysMod&gt;</i> | pls enter the system module number |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show stats granularity <granularity-value> [history] [cumulative] spine <leafId> inventory system <sysMod>
```

# show stats granularity tenant

**show stats granularity <granularity-value> [history] [cumulative] tenant WORD**

**Description:** Show Tenants Information

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
|-------------|---|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show stats granularity <granularity-value> [history] [cumulative] tenant WORD
```



# show stats granularity tenant application

**show stats granularity <granularity-value> [history] [cumulative] tenant WORD application WORD**

**Description:** Show Application Profiles Information

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63)                         |
| <i>WORD</i> | Name of the application we eventually want to filter on (Max Size 64) |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show stats granularity <granularity-value> [history] [cumulative] tenant WORD application  
WORD
```

# show stats granularity tenant application epg

**show stats granularity <granularity-value> [history] [cumulative] tenant WORD application WORD epg WORD**

**Description:** Show Application EPG Information

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63)                         |
| <i>WORD</i> | Name of the application we eventually want to filter on (Max Size 64) |
| <i>WORD</i> | Name of the AEPG to filter on (Max Size 64)                           |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show stats granularity <granularity-value> [history] [cumulative] tenant WORD application
WORD epg WORD
```

# show stats granularity tenant dnsservergroup

**show stats granularity <granularity-value> [history] [cumulative] tenant WORD dnsservergroup WORD**

**Description:** Show Dns Server Group Information

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63)                              |
| <i>WORD</i> | Name of the dns server group we eventually want to filter on (Max Size 16) |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show stats granularity <granularity-value> [history] [cumulative] tenant WORD dnsservergroup  
WORD
```

# show stats granularity tenant dnsservergroup server

**show stats granularity <granularity-value> [history] [cumulative] tenant WORD dnsservergroup WORD server WORD**

**Description:** Show Dns Server Information

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63)                              |
| <i>WORD</i> | Name of the dns server group we eventually want to filter on (Max Size 16) |
| <i>WORD</i> | IP of server we eventually want to filter on (Max Size None)               |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show stats granularity <granularity-value> [history] [cumulative] tenant WORD dnsservergroup
WORD server WORD
```

# show stats granularity tenant dnsservergroup server domain

**show stats granularity <granularity-value> [history] [cumulative] tenant WORD dnsservergroup WORD server WORD domain WORD**

**Description:** Show Dns Domain Information

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63)                              |
| <i>WORD</i> | Name of the dns server group we eventually want to filter on (Max Size 16) |
| <i>WORD</i> | IP of server we eventually want to filter on (Max Size None)               |
| <i>WORD</i> | Domain we eventually want to filter on (Max Size 512)                      |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show stats granularity <granularity-value> [history] [cumulative] tenant WORD dnsservergroup  
WORD server WORD domain WORD
```

# show stats granularity tenant dot1q-tunnel

**show stats granularity <granularity-value> [history] [cumulative] tenant WORD dot1q-tunnel WORD**

**Description:** Show Dot1q-tunnel Information

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the TnIEPG to filter on (Max Size 64) |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show stats granularity <granularity-value> [history] [cumulative] tenant WORD dot1q-tunnel  
WORD
```

## show stats granularity tenant multicast-route-maps

**show stats granularity <granularity-value> [history] [cumulative] tenant WORD multicast-route-maps**

**Description:** Show multicast route-maps per Tenant

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
|-------------|---|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show stats granularity <granularity-value> [history] [cumulative] tenant WORD
multicast-route-maps
```

# show stats granularity tenant vrf

**show stats granularity <granularity-value> [history] [cumulative] tenant WORD vrf WORD**

**Description:** Show VRF Information

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show stats granularity <granularity-value> [history] [cumulative] tenant WORD vrf WORD
```



## show stats granularity tenant vrf acllog l2

**show stats granularity <granularity-value> [history] [cumulative] tenant WORD vrf WORD acllog <permitDrop> l2 flow vlan <NUMBER> srcintf <srcintf>**

**Description:** L2 flow stats

**Syntax:**

|                   |  |
|-------------------|--|
| <i>WORD</i>       | Name of the tenant to filter on (Max Size 63)      |
| <i>WORD</i>       | Name of the VRF to filter on (Max Size 64)         |
| <i>permitDrop</i> | permitDrop   |
| flow              | flowi stats  |
| vlan              | vlan info  |
| <vlan>            | <vlan>. Number range from=0 to=9223372036854775807 |
| srcintf           | source interface                                   |
| <srcintf>         | <srcintf>  |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show stats granularity <granularity-value> [history] [cumulative] tenant WORD vrf WORD
acllog <permitDrop> l2 flow vlan <NUMBER> srcintf <srcintf>
```

## show stats granularity tenant vrf aclog l3

**show stats granularity** <granularity-value> [history] [cumulative] tenant WORD vrf WORD aclog <permitDrop> l3 flow srcpctag <srcpctag> dstpctag <dstpctag> srcepname <srcepname> dstepname <dstepname> srcip <A.B.C.D or A:B::C:D> dstip <A.B.C.D or A:B::C:D> proto <proto> srcport <srcport> dstport <dstport> srcintf <srcintf>

**Description:** L3 flow stats

### Syntax:

|                     |  |
|---------------------|--|
| WORD                | Name of the tenant to filter on (Max Size 63)                              |
| WORD                | Name of the VRF to filter on (Max Size 64)                                 |
| permitDrop          | permitDrop   |
| flow                | flow stats   |
| srcpctag            | source pc tag  |
| <srcpctag>          | <srcpctag>   |
| dstpctag            | destination pc tag   |
| <dstpctag>          | <dstpctag>   |
| srcepname           | source epg name  |
| <srcepname>         | <srcepname>  |
| dstepname           | destination epg name   |
| <dstepname>         | <dstepname>  |
| srcip               | source ip  |
| A.B.C.D or A:B::C:D | IP address in format i.i.i.i or IPv6 address in format xxxx:xxxx, xxxx::xx |
| dstip               | destination ip   |
| A.B.C.D or A:B::C:D | IP address in format i.i.i.i or IPv6 address in format xxxx:xxxx, xxxx::xx |
| proto               | protocol   |
| <proto>             | <proto>  |
| srcport             | source port  |
| <srcport>           | <srcport>  |
| dstport             | destination port   |
| <dstport>           | <dstport>  |

|           |                  |
|-----------|------------------|
| srcintf   | source interface |
| <srcintf> | <srcintf>        |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show stats granularity <granularity-value> [history] [cumulative] tenant WORD vrf WORD
acllog <permitDrop> l3 flow srcpctag <srcpctag> dstpctag <dstpctag> srcepname <srcepname>
  dstepname <dstepname> srcip <A.B.C.D or A:B::C:D> dstip <A.B.C.D or A:B::C:D> proto
<proto> srcport <srcport> dstport <dstport> srcintf <srcintf>
```

# show stats granularity tenant vrf detail

**show stats granularity <granularity-value> [history] [cumulative] tenant WORD vrf WORD detail**

**Description:** Show detailed view of VRF

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show stats granularity <granularity-value> [history] [cumulative] tenant WORD vrf WORD detail
```

# show stats granularity tenant vrf external-l3 bgp

**show stats granularity <granularity-value> [history] [cumulative] tenant WORD vrf WORD external-l3 bgp**

**Description:** Show command for BGP peers

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show stats granularity <granularity-value> [history] [cumulative] tenant WORD vrf WORD  
external-l3 bgp
```

# show stats granularity tenant vrf external-l3 bgp node

**show stats granularity <granularity-value> [history] [cumulative] tenant WORD vrf WORD external-l3 bgp node <101-4000>**

**Description:** node to filter on

**Syntax:**

|                         |   |
|-------------------------|---|
| <i>WORD</i>             | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i>             | Name of the VRF to filter on (Max Size 64)    |
| <i>&lt;101-4000&gt;</i> | Leaf Range or Leaf Name List                  |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show stats granularity <granularity-value> [history] [cumulative] tenant WORD vrf WORD
external-l3 bgp node <101-4000>
```

# show stats granularity tenant vrf external-l3 eigrp

**show stats granularity <granularity-value> [history] [cumulative] tenant WORD vrf WORD external-l3 eigrp**

**Description:** Show external l3 EIGRP

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show stats granularity <granularity-value> [history] [cumulative] tenant WORD vrf WORD  
external-l3 eigrp
```

# show stats granularity tenant vrf external-l3 eigrp detail

**show stats granularity <granularity-value> [history] [cumulative] tenant WORD vrf WORD external-l3 eigrp detail**

**Description:** Show interanl details

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show stats granularity <granularity-value> [history] [cumulative] tenant WORD vrf WORD external-l3 eigrp detail
```



# show stats granularity tenant vrf external-l3 epg

**show stats granularity** <granularity-value> [history] [cumulative] tenant WORD vrf WORD external-l3 epg <epgName>

**Description:** Show command for external-l3 epgs

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |
| <epgName>   | Name of the EPG to filter on                  |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show stats granularity <granularity-value> [history] [cumulative] tenant WORD vrf WORD  
external-l3 epg <epgName>
```

# show stats granularity tenant vrf external-l3 epg detail

**show stats granularity <granularity-value> [history] [cumulative] tenant WORD vrf WORD external-l3 epg <epgName> detail**

**Description:** external-l3 epg in detail with operational status

**Syntax:**

|                        |   |
|------------------------|---|
| <i>WORD</i>            | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i>            | Name of the VRF to filter on (Max Size 64)    |
| <i>&lt;epgName&gt;</i> | Name of the EPG to filter on                  |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show stats granularity <granularity-value> [history] [cumulative] tenant WORD vrf WORD
external-l3 epg <epgName> detail
```

# show stats granularity tenant vrf external-l3 epg name

**show stats granularity** <granularity-value> [history] [cumulative] tenant WORD vrf WORD external-l3 epg <epgName> name <epgName>

**Description:** EPG name to filter on

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |
| <epgName>   | Name of the EPG to filter on                  |
| <epgName>   | Name of the EPG to filter on                  |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show stats granularity <granularity-value> [history] [cumulative] tenant WORD vrf WORD
external-l3 epg <epgName> name <epgName>
```

## show stats granularity tenant vrf external-l3 epg name detail

**show stats granularity** <granularity-value> [history] [cumulative] tenant WORD vrf WORD external-l3 epg <epgName> name <epgName> detail

**Description:** external-l3 epg in detail with operational status

**Syntax:**

|                        |   |
|------------------------|---|
| <i>WORD</i>            | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i>            | Name of the VRF to filter on (Max Size 64)    |
| <i>&lt;epgName&gt;</i> | Name of the EPG to filter on                  |
| <i>&lt;epgName&gt;</i> | Name of the EPG to filter on                  |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show stats granularity <granularity-value> [history] [cumulative] tenant WORD vrf WORD
external-l3 epg <epgName> name <epgName> detail
```

# show stats granularity tenant vrf external-l3 interfaces

**show stats granularity <granularity-value> [history] [cumulative] tenant WORD vrf WORD external-l3 interfaces**

**Description:** Show tenant <tenant> vrf <vrf> external l3 interfaces

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show stats granularity <granularity-value> [history] [cumulative] tenant WORD vrf WORD  
external-l3 interfaces
```

# show stats granularity tenant vrf external-l3 interfaces detail

**show stats granularity** <granularity-value> [history] [cumulative] tenant WORD vrf WORD external-l3 interfaces detail

**Description:** Show interfaces details

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show stats granularity <granularity-value> [history] [cumulative] tenant WORD vrf WORD external-l3 interfaces detail
```

# show stats granularity tenant vrf external-l3 ospf

**show stats granularity <granularity-value> [history] [cumulative] tenant WORD vrf WORD external-l3 ospf**

**Description:** Show command for IPv4 and IPv6 external l3 OSPF configuration

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show stats granularity <granularity-value> [history] [cumulative] tenant WORD vrf WORD  
external-l3 ospf
```

# show stats granularity tenant vrf external-l3 ospf detail

**show stats granularity <granularity-value> [history] [cumulative] tenant WORD vrf WORD external-l3 ospf detail**

**Description:** Show internal details

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show stats granularity <granularity-value> [history] [cumulative] tenant WORD vrf WORD external-l3 ospf detail
```



# show stats granularity tenant vrf external-l3 scale

**show stats granularity** <granularity-value> [history] [cumulative] tenant WORD vrf WORD external-l3 scale

**Description:** scale command

**Syntax:**

|      |   |
|------|---|
| WORD | Name of the tenant to filter on (Max Size 63) |
| WORD | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show stats granularity <granularity-value> [history] [cumulative] tenant WORD vrf WORD  
external-l3 scale
```

# show stats granularity tenant vrf external-l3 scale detail

**show stats granularity <granularity-value> [history] [cumulative] tenant WORD vrf WORD external-l3 scale detail**

**Description:** Show scale details

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show stats granularity <granularity-value> [history] [cumulative] tenant WORD vrf WORD external-l3 scale detail
```

# show stats granularity tenant vrf external-l3 static-route

**show stats granularity <granularity-value> [history] [cumulative] tenant WORD vrf WORD external-l3 static-route**

**Description:** Show command for external-l3 static routes

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show stats granularity <granularity-value> [history] [cumulative] tenant WORD vrf WORD external-l3 static-route
```

# show stats granularity tenant vrf external-l3 static-route detail

**show stats granularity <granularity-value> [history] [cumulative] tenant WORD vrf WORD external-l3 static-route detail**

**Description:** static-route in detail with operational status

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show stats granularity <granularity-value> [history] [cumulative] tenant WORD vrf WORD  
external-l3 static-route detail
```

# show stats granularity tenant vrf external-l3 static-route node

**show stats granularity <granularity-value> [history] [cumulative] tenant WORD vrf WORD external-l3 static-route node**

**Description:** node to filter on

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |
| <i>arg</i>  | Leaf Range or Leaf Name List                  |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show stats granularity <granularity-value> [history] [cumulative] tenant WORD vrf WORD  
external-l3 static-route node
```

# show stats granularity tenant vrf external-l3 static-route node detail

**show stats granularity <granularity-value> [history] [cumulative] tenant WORD vrf WORD external-l3 static-route node detail**

**Description:** static-route in detail with operational status

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |
| <i>arg</i>  | Leaf Range or Leaf Name List                  |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show stats granularity <granularity-value> [history] [cumulative] tenant WORD vrf WORD
external-l3 static-route node detail
```

# show stats granularity tenant vrf multicast

**show stats granularity <granularity-value> [history] [cumulative] tenant WORD vrf WORD multicast**

**Description:** Show multicast configuration per VRF

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show stats granularity <granularity-value> [history] [cumulative] tenant WORD vrf WORD
multicast
```

# show switch

**show switch**

**Description:** Show switch information

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show switch
```



# show switch detail

**show switch detail [id <switch-id>]**

**Description:** Show switch detailed information

**Syntax:**

|                  |   |
|------------------|---|
| <i>switch-id</i> | (Optional) Optional switch id. Number range from=0 to=9223372036854775807 |
|------------------|---|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show switch detail [id <switch-id>]
```

# show tacacs-server

**show tacacs-server**

**Description:** Show tacacs server information

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tacacs-server
```

# show techsupport all

**show techsupport all status**

**Description:** Techsupport status for all

**Syntax:**

|        |        |
|--------|--------|
| status | Status |
|--------|--------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show techsupport all status
```

# show techsupport controllers

## show techsupport controllers status

**Description:** Techsupport status for controllers

**Syntax:**

|        |        |
|--------|--------|
| status | Status |
|--------|--------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show techsupport controllers status
```

# show techsupport host

**show techsupport host <NUMBER> status**

**Description:** Techsupport status for host

**Syntax:**

|                       |  |
|-----------------------|--|
| <i>&lt;Odevid&gt;</i> | Specify the host Odev ID. Number range from=0 to=9223372036854775807 |
| status                | Status   |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show techsupport host <NUMBER> status
```

# show techsupport switch

**show techsupport switch switchId <switchId> status**

**Description:** Techsupport status for switch

**Syntax:**

|                                     |   |
|-------------------------------------|---|
| <i>switchId</i> < <i>switchId</i> > | switch id 101-4000 or range(s): 101-103,104 |
| status                              | Status                                      |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show techsupport switch switchId <switchId> status
```

# show tenant

**show tenant WORD**

**Description:** Show Tenants Information

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
|-------------|---|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD
```

# show tenant access-list

**show tenant WORD access-list WORD**

**Description:** Show Access-list Information

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63)   |
| <i>WORD</i> | Name of the Contract to filter on (Max Size 64) |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD access-list WORD
```



# show tenant application

**show tenant WORD application WORD**

**Description:** Show Application Profiles Information

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63)                         |
| <i>WORD</i> | Name of the application we eventually want to filter on (Max Size 64) |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD application WORD
```

## show tenant application endpoints

**show tenant WORD application WORD endpoints [type <type>] [mac <E.E.E EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE >] [vlan <NUMBER>] [ip <A.B.C.D>] [ipv6 <A:B::C:D>]**

**Description:** Show IP endpoints

**Syntax:**

|   |  |
|---|--|
| <i>WORD</i>   | Name of the tenant to filter on (Max Size 63)  |
| <i>WORD</i>   | Name of the application we eventually want to filter on (Max Size 64)                                  |
| <i>type</i>   | (Optional) Endpoint Type   |
| <i>E.E.E EE-EE-EE-EE-EE-EE<br/>EE:EE:EE:EE:EE:EE<br/>EEEE.EEEE.EEEE</i> | (Optional) MAC address (Option 1) MAC address (Option 2) MAC address (Option 3) MAC address (Option 4) |
| <i>&lt;1-4094&gt;</i>   | (Optional) Encapsulation Vlan. Number range from=1 to=4094   |
| <i>A.B.C.D</i>  | (Optional) IP Unicast address in format i.i.i.i  |
| <i>A:B::C:D</i>   | (Optional) IPv6 address in format xxxx:xxxx, xxxx::xx  |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD application WORD endpoints [type <type>] [mac <E.E.E EE-EE-EE-EE-EE-EE  
EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE >] [vlan <NUMBER>] [ip <A.B.C.D>] [ipv6 <A:B::C:D>]
```

# show tenant application endpoints leaf interface ethernet

**show tenant** WORD application WORD endpoints [type <type>] [mac <E.E.E EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE >] [vlan <NUMBER>] [ip <A.B.C.D>] [ipv6 <A:B::C:D>] leaf <WORD> interface ethernet ethernet [<fex>/<slot>/<port>]

**Description:** Show IP endpoints on an interface ethernet

## Syntax:

|  |  |
|--|--|
| WORD   | Name of the tenant to filter on (Max Size 63)  |
| WORD   | Name of the application we eventually want to filter on (Max Size 64)                                  |
| type   | (Optional) Endpoint Type   |
| E.E.E EE-EE-EE-EE-EE-EE<br>EE:EE:EE:EE:EE:EE<br>EEEE.EEEE.EEEE | (Optional) MAC address (Option 1) MAC address (Option 2) MAC address (Option 3) MAC address (Option 4) |
| <1-4094>   | (Optional) Encapsulation Vlan. Number range from=1 to=4094   |
| A.B.C.D  | (Optional) IP Unicast address in format i.i.i.i  |
| A:B::C:D   | (Optional) IPv6 address in format xxxx:xxxx, xxxx::xx  |
| WORD   | Leaf Number (Max Size 4000). Number range from=0 to=9223372036854775807                                |
| ethernet [<fex>/<slot>/<port>]                                 | Ethernet Range   |

**Command Mode:** exec : Exec Mode

## Command Path:

```
# show tenant WORD application WORD endpoints [type <type>] [mac <E.E.E EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE >] [vlan <NUMBER>] [ip <A.B.C.D>] [ipv6 <A:B::C:D>] leaf <WORD> interface ethernet ethernet [<fex>/<slot>/<port>]
```

# show tenant application endpoints leaf interface port-channel

**show tenant WORD application WORD endpoints [type <type>] [mac <E.E.E EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE >] [vlan <NUMBER>] [ip <A.B.C.D>] [ipv6 <A:B::C:D>] leaf <WORD> interface port-channel <WORD> [fex <NUMBER>]**

**Description:** Show IP endpoints on an interface port-channel

## Syntax:

|   |  |
|---|--|
| <i>WORD</i>   | Name of the tenant to filter on (Max Size 63)  |
| <i>WORD</i>   | Name of the application we eventually want to filter on (Max Size 64)                                  |
| <i>type</i>   | (Optional) Endpoint Type   |
| <i>E.E.E EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE</i> | (Optional) MAC address (Option 1) MAC address (Option 2) MAC address (Option 3) MAC address (Option 4) |
| <i>&lt;1-4094&gt;</i>   | (Optional) Encapsulation Vlan. Number range from=1 to=4094   |
| <i>A.B.C.D</i>  | (Optional) IP Unicast address in format i.i.i.i  |
| <i>A:B::C:D</i>   | (Optional) IPv6 address in format xxxx:xxxx, xxxx::xx  |
| <i>WORD</i>   | Leaf Number (Max Size 4000). Number range from=0 to=9223372036854775807                                |
| <i>WORD</i>   | Port Channel Name (Max Size 64)  |
| <i>&lt;101-199&gt;</i>  | (Optional) Fex Id. Number range from=101 to=199  |

**Command Mode:** exec : Exec Mode

## Command Path:

```
# show tenant WORD application WORD endpoints [type <type>] [mac <E.E.E EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE >] [vlan <NUMBER>] [ip <A.B.C.D>] [ipv6 <A:B::C:D>] leaf <WORD> interface port-channel <WORD> [fex <NUMBER>]
```

# show tenant application endpoints vpc

**show tenant** *WORD* **application** *WORD* **endpoints** [*type* <type>] [*mac* <E.E.E EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE >] [*vlan* <NUMBER>] [*ip* <A.B.C.D>] [*ipv6* <A:B::C:D>] **vpc context** <WORD> <WORD> **interface vpc** <WORD> [*fex* <fex>]

**Description:** Show IP endpoints on vpc

## Syntax:

|   |  |
|---|--|
| <i>WORD</i>   | Name of the tenant to filter on (Max Size 63)  |
| <i>WORD</i>   | Name of the application we eventually want to filter on (Max Size 64)                                  |
| <i>type</i>   | (Optional) Endpoint Type   |
| <i>E.E.E EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE</i> > | (Optional) MAC address (Option 1) MAC address (Option 2) MAC address (Option 3) MAC address (Option 4) |
| < <i>1-4094</i> >   | (Optional) Encapsulation Vlan. Number range from=1 to=4094   |
| <i>A.B.C.D</i>  | (Optional) IP Unicast address in format i.i.i.i  |
| <i>A:B::C:D</i>   | (Optional) IPv6 address in format xxxx:xxxx, xxxx::xx  |
| context   | VPC Context  |
| <i>WORD</i>   | First VPC leaf (Max Size 4000). Number range from=0 to=9223372036854775807                             |
| <i>WORD</i>   | Second VPC leaf (Max Size 4000). Number range from=0 to=9223372036854775807                            |
| interface   | VPC Interface name   |
| vpc   | VPC Interface name   |
| <i>WORD</i>   | VPC Name (Max Size 64)   |
| <i>fex</i>  | (Optional) Fex Id. Number range from=101 to=199  |

**Command Mode:** exec : Exec Mode

## Command Path:

```
# show tenant WORD application WORD endpoints [type <type>] [mac <E.E.E EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE >] [vlan <NUMBER>] [ip <A.B.C.D>] [ipv6 <A:B::C:D>] vpc context <WORD> <WORD> interface vpc <WORD> [fex <fex>]
```

# show tenant application epg

**show tenant WORD application WORD epg WORD**

**Description:** Show Application EPG Information

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63)                         |
| <i>WORD</i> | Name of the application we eventually want to filter on (Max Size 64) |
| <i>WORD</i> | Name of the AEPG to filter on (Max Size 64)                           |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD application WORD epg WORD
```

# show tenant application epg detail

**show tenant WORD application WORD epg WORD detail**

**Description:** Show detailed view of Application EPg

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63)                         |
| <i>WORD</i> | Name of the application we eventually want to filter on (Max Size 64) |
| <i>WORD</i> | Name of the AEPG to filter on (Max Size 64)                           |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD application WORD epg WORD detail
```

# show tenant application epg endpoints

**show tenant WORD application WORD epg WORD endpoints [type <type>] [mac <E.E.E EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE >] [vlan <NUMBER>] [ip <A.B.C.D>] [ipv6 <A:B::C:D>]**

**Description:** Show IP endpoints

**Syntax:**

|   |  |
|---|--|
| <i>WORD</i>   | Name of the tenant to filter on (Max Size 63)  |
| <i>WORD</i>   | Name of the application we eventually want to filter on (Max Size 64)                                  |
| <i>WORD</i>   | Name of the AEPG to filter on (Max Size 64)  |
| <i>type</i>   | (Optional) Endpoint Type   |
| <i>E.E.E EE-EE-EE-EE-EE-EE<br/>EE:EE:EE:EE:EE:EE<br/>EEEE.EEEE.EEEE</i> | (Optional) MAC address (Option 1) MAC address (Option 2) MAC address (Option 3) MAC address (Option 4) |
| <i>&lt;1-4094&gt;</i>   | (Optional) Encapsulation Vlan. Number range from=1 to=4094   |
| <i>A.B.C.D</i>  | (Optional) IP Unicast address in format i.i.i.i  |
| <i>A:B::C:D</i>   | (Optional) IPv6 address in format xxxx:xxxx, xxxx::xx  |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD application WORD epg WORD endpoints [type <type>] [mac <E.E.E  
EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE >] [vlan <NUMBER>] [ip <A.B.C.D>] [ipv6  
<A:B::C:D>]
```



# show tenant application epg endpoints leaf interface ethernet

**show tenant WORD application WORD epg WORD endpoints [type <type>] [mac <E.E.E EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE >] [vlan <NUMBER>] [ip <A.B.C.D>] [ipv6 <A:B::C:D>] leaf <WORD> interface ethernet ethernet [<fex>/<slot>/<port>**

**Description:** Show IP endpoints on an interface ethernet

## Syntax:

|   |  |
|---|--|
| <i>WORD</i>   | Name of the tenant to filter on (Max Size 63)  |
| <i>WORD</i>   | Name of the application we eventually want to filter on (Max Size 64)                                  |
| <i>WORD</i>   | Name of the AEPG to filter on (Max Size 64)  |
| <i>type</i>   | (Optional) Endpoint Type   |
| <i>E.E.E EE-EE-EE-EE-EE-EE<br/>EE:EE:EE:EE:EE:EE<br/>EEEE.EEEE.EEEE</i> | (Optional) MAC address (Option 1) MAC address (Option 2) MAC address (Option 3) MAC address (Option 4) |
| <i>&lt;1-4094&gt;</i>   | (Optional) Encapsulation Vlan. Number range from=1 to=4094   |
| <i>A.B.C.D</i>  | (Optional) IP Unicast address in format i.i.i.i  |
| <i>A:B::C:D</i>   | (Optional) IPv6 address in format xxxx:xxxx, xxxx::xx  |
| <i>WORD</i>   | Leaf Number (Max Size 4000). Number range from=0 to=9223372036854775807                                |
| <i>ethernet [&lt;fex&gt;/&lt;slot&gt;/&lt;port&gt;</i>                  | Ethernet Range   |

**Command Mode:** exec : Exec Mode

## Command Path:

```
# show tenant WORD application WORD epg WORD endpoints [type <type>] [mac <E.E.E  
EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE >] [vlan <NUMBER>] [ip <A.B.C.D>] [ipv6  
<A:B::C:D>] leaf <WORD> interface ethernet ethernet [<fex>/<slot>/<port>
```

# show tenant application epg endpoints leaf interface port-channel

**show tenant WORD application WORD epg WORD endpoints [type <type>] [mac <E.E.E EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE >] [vlan <NUMBER>] [ip <A.B.C.D>] [ipv6 <A:B::C:D>] leaf <WORD> interface port-channel <WORD> [fex <NUMBER>]**

**Description:** Show IP endpoints on an interface port-channel

**Syntax:**

|   |  |
|---|--|
| <i>WORD</i>   | Name of the tenant to filter on (Max Size 63)  |
| <i>WORD</i>   | Name of the application we eventually want to filter on (Max Size 64)                                  |
| <i>WORD</i>   | Name of the AEPG to filter on (Max Size 64)  |
| <i>type</i>   | (Optional) Endpoint Type   |
| <i>E.E.E EE-EE-EE-EE-EE-EE<br/>EE:EE:EE:EE:EE:EE<br/>EEEE.EEEE.EEEE</i> | (Optional) MAC address (Option 1) MAC address (Option 2) MAC address (Option 3) MAC address (Option 4) |
| <i>&lt;1-4094&gt;</i>   | (Optional) Encapsulation Vlan. Number range from=1 to=4094   |
| <i>A.B.C.D</i>  | (Optional) IP Unicast address in format i.i.i.i  |
| <i>A:B::C:D</i>   | (Optional) IPv6 address in format xxxx:xxxx, xxxx::xx  |
| <i>WORD</i>   | Leaf Number (Max Size 4000). Number range from=0 to=9223372036854775807                                |
| <i>WORD</i>   | Port Channel Name (Max Size 64)  |
| <i>&lt;101-199&gt;</i>  | (Optional) Fex Id. Number range from=101 to=199  |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD application WORD epg WORD endpoints [type <type>] [mac <E.E.E  
EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE >] [vlan <NUMBER>] [ip <A.B.C.D>] [ipv6  
<A:B::C:D>] leaf <WORD> interface port-channel <WORD> [fex <NUMBER>]
```

# show tenant application epg endpoints vpc

```
show tenant WORD application WORD epg WORD endpoints [type <type>] [mac <E.E.E EE-EE-EE-EE-EE-EE
EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE >] [vlan <NUMBER>] [ip <A.B.C.D>] [ipv6 <A:B::C:D>] vpc context <WORD>
<WORD> interface vpc <WORD> [fex <fex>]
```

**Description:** Show IP endpoints on vpc

## Syntax:

|   |  |
|---|--|
| <i>WORD</i>   | Name of the tenant to filter on (Max Size 63)  |
| <i>WORD</i>   | Name of the application we eventually want to filter on (Max Size 64)                                  |
| <i>WORD</i>   | Name of the AEPG to filter on (Max Size 64)  |
| <i>type</i>   | (Optional) Endpoint Type   |
| <i>E.E.E EE-EE-EE-EE-EE-EE<br/>EE:EE:EE:EE:EE:EE<br/>EEEE.EEEE.EEEE</i> | (Optional) MAC address (Option 1) MAC address (Option 2) MAC address (Option 3) MAC address (Option 4) |
| <i>&lt;1-4094&gt;</i>   | (Optional) Encapsulation Vlan. Number range from=1 to=4094   |
| <i>A.B.C.D</i>  | (Optional) IP Unicast address in format i.i.i.i  |
| <i>A:B::C:D</i>   | (Optional) IPv6 address in format xxxx:xxxx, xxxx::xx  |
| context   | VPC Context  |
| <i>WORD</i>   | First VPC leaf (Max Size 4000). Number range from=0 to=9223372036854775807                             |
| <i>WORD</i>   | Second VPC leaf (Max Size 4000). Number range from=0 to=9223372036854775807                            |
| interface   | VPC Interface name   |
| vpc   | VPC Interface name   |
| <i>WORD</i>   | VPC Name (Max Size 64)   |
| <i>fex</i>  | (Optional) Fex Id. Number range from=101 to=199  |

**Command Mode:** exec : Exec Mode

## Command Path:

```
# show tenant WORD application WORD epg WORD endpoints [type <type>] [mac <E.E.E
EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE >] [vlan <NUMBER>] [ip <A.B.C.D>] [ipv6
<A:B::C:D>] vpc context <WORD> <WORD> interface vpc <WORD> [fex <fex>]
```

# show tenant bridge-domain

**show tenant WORD bridge-domain WORD**

**Description:** Show Bridge-domain Information

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD bridge-domain WORD
```

# show tenant bridge-domain detail

**show tenant WORD bridge-domain WORD detail**

**Description:** Show Bridge-domain Detailed Information

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD bridge-domain WORD detail
```

# show tenant bridge-domain first-hop-security binding-table

**show tenant WORD bridge-domain WORD first-hop-security binding-table**

**Description:** Show Bridge-domain Binding Table Information

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD bridge-domain WORD first-hop-security binding-table
```

# show tenant bridge-domain first-hop-security statistics arp

**show tenant WORD bridge-domain WORD first-hop-security statistics arp**

**Description:** Show Bridge-domain First Hop Security ARP Statistics

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD bridge-domain WORD first-hop-security statistics arp
```

# show tenant bridge-domain first-hop-security statistics dhcpv4

**show tenant WORD bridge-domain WORD first-hop-security statistics dhcpv4**

**Description:** Show Bridge-domain First Hop Security DHCPv4 Statistics

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD bridge-domain WORD first-hop-security statistics dhcpv4
```



# show tenant bridge-domain first-hop-security statistics dhcpv6

**show tenant WORD bridge-domain WORD first-hop-security statistics dhcpv6**

**Description:** Show Bridge-domain First Hop Security DHCPv6 Statistics

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD bridge-domain WORD first-hop-security statistics dhcpv6
```

# show tenant bridge-domain first-hop-security statistics neighbor-discovery

**show tenant WORD bridge-domain WORD first-hop-security statistics neighbor-discovery**

**Description:** Show Bridge-domain First Hop Security Neighbor Discovery Statistics

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD bridge-domain WORD first-hop-security statistics neighbor-discovery
```

# show tenant contract-type

**show tenant WORD contract-type WORD**

**Description:** Show Contracts Information Based on Type

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63)                      |
| <i>WORD</i> | whitelist (permit) or blacklist(deny) or oob-mgmt type of contract |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD contract-type WORD
```

# show tenant contract

**show tenant WORD contract WORD**

**Description:** Show Contracts Information

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63)   |
| <i>WORD</i> | Name of the Contract to filter on (Max Size 64) |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD contract WORD
```

# show tenant detail

**show tenant WORD detail**

**Description:** Show detailed view of tenant

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
|-------------|---|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD detail
```

# show tenant dnsservergroup

**show tenant WORD dnsservergroup WORD**

**Description:** Show Dns Server Group Information

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63)                              |
| <i>WORD</i> | Name of the dns server group we eventually want to filter on (Max Size 16) |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD dnsservergroup WORD
```

# show tenant dnsservergroup server

**show tenant WORD dnsservergroup WORD server WORD**

**Description:** Show Dns Server Information

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63)                              |
| <i>WORD</i> | Name of the dns server group we eventually want to filter on (Max Size 16) |
| <i>WORD</i> | IP of server we eventually want to filter on (Max Size None)               |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD dnsservergroup WORD server WORD
```

# show tenant dnsservergroup server domain

**show tenant WORD dnsservergroup WORD server WORD domain WORD**

**Description:** Show Dns Domain Information

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63)                              |
| <i>WORD</i> | Name of the dns server group we eventually want to filter on (Max Size 16) |
| <i>WORD</i> | IP of server we eventually want to filter on (Max Size None)               |
| <i>WORD</i> | Domain we eventually want to filter on (Max Size 512)                      |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD dnsservergroup WORD server WORD domain WORD
```



# show tenant dot1q-tunnel

**show tenant WORD dot1q-tunnel WORD**

**Description:** Show Dot1q-tunnel Information

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the TnIEPG to filter on (Max Size 64) |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD dot1q-tunnel WORD
```

# show tenant endpoints

**show tenant WORD endpoints** [*type* <type>] [*mac* <E.E.E EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE >] [*vlan* <NUMBER>] [*ip* <A.B.C.D>] [*ipv6* <A:B::C:D>]

**Description:** Show IP endpoints

**Syntax:**

|   |  |
|---|--|
| <i>WORD</i>   | Name of the tenant to filter on (Max Size 63)  |
| <i>type</i>   | (Optional) Endpoint Type   |
| <i>E.E.E EE-EE-EE-EE-EE-EE<br/>EE:EE:EE:EE:EE:EE<br/>EEEE.EEEE.EEEE</i> | (Optional) MAC address (Option 1) MAC address (Option 2) MAC address (Option 3) MAC address (Option 4) |
| <1-4094>  | (Optional) Encapsulation Vlan. Number range from=1 to=4094   |
| <i>A.B.C.D</i>  | (Optional) IP Unicast address in format i.i.i.i  |
| <i>A:B::C:D</i>   | (Optional) IPv6 address in format xxxx:xxxx, xxxx::xx  |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD endpoints [type <type>] [mac <E.E.E EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE  
EEEE.EEEE.EEEE >] [vlan <NUMBER>] [ip <A.B.C.D>] [ipv6 <A:B::C:D>]
```

# show tenant endpoints leaf interface ethernet

```
show tenant WORD endpoints [type <type>] [mac <E.E.E EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE >] [vlan <NUMBER>] [ip <A.B.C.D>] [ipv6 <A:B::C:D>] leaf <WORD> interface ethernet ethernet [<fex>/<slot>/<port>
```

**Description:** Show IP endpoints on an interface ethernet

**Syntax:**

|   |  |
|---|--|
| <i>WORD</i>   | Name of the tenant to filter on (Max Size 63)  |
| <i>type</i>   | (Optional) Endpoint Type   |
| <i>E.E.E EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE</i> | (Optional) MAC address (Option 1) MAC address (Option 2) MAC address (Option 3) MAC address (Option 4) |
| <i>&lt;1-4094&gt;</i>   | (Optional) Encapsulation Vlan. Number range from=1 to=4094   |
| <i>A.B.C.D</i>  | (Optional) IP Unicast address in format i.i.i.i  |
| <i>A:B::C:D</i>   | (Optional) IPv6 address in format xxxx:xxxx, xxxx::xx  |
| <i>WORD</i>   | Leaf Number (Max Size 4000). Number range from=0 to=9223372036854775807                                |
| <i>ethernet [&lt;fex&gt;/&lt;slot&gt;/&lt;port&gt;</i>          | Ethernet Range   |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD endpoints [type <type>] [mac <E.E.E EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE >] [vlan <NUMBER>] [ip <A.B.C.D>] [ipv6 <A:B::C:D>] leaf <WORD> interface ethernet ethernet [<fex>/<slot>/<port>
```

# show tenant endpoints leaf interface port-channel

**show tenant WORD endpoints** [*type* <type>] [*mac* <E.E.E EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE >] [*vlan* <NUMBER>] [*ip* <A.B.C.D>] [*ipv6* <A:B::C:D>] *leaf* <WORD> *interface port-channel* <WORD> [*fex* <NUMBER>]

**Description:** Show IP endpoints on an interface port-channel

## Syntax:

|   |  |
|---|--|
| <i>WORD</i>   | Name of the tenant to filter on (Max Size 63)  |
| <i>type</i>   | (Optional) Endpoint Type   |
| <i>E.E.E EE-EE-EE-EE-EE-EE<br/>EE:EE:EE:EE:EE:EE<br/>EEEE.EEEE.EEEE</i> | (Optional) MAC address (Option 1) MAC address (Option 2) MAC address (Option 3) MAC address (Option 4) |
| <1-4094>  | (Optional) Encapsulation Vlan. Number range from=1 to=4094   |
| <i>A.B.C.D</i>  | (Optional) IP Unicast address in format i.i.i.i  |
| <i>A:B::C:D</i>   | (Optional) IPv6 address in format xxxx:xxxx, xxxx::xx  |
| <i>WORD</i>   | Leaf Number (Max Size 4000). Number range from=0 to=9223372036854775807                                |
| <i>WORD</i>   | Port Channel Name (Max Size 64)  |
| <101-199>   | (Optional) Fex Id. Number range from=101 to=199  |

**Command Mode:** exec : Exec Mode

## Command Path:

```
# show tenant WORD endpoints [type <type>] [mac <E.E.E EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE >] [vlan <NUMBER>] [ip <A.B.C.D>] [ipv6 <A:B::C:D>] leaf <WORD> interface port-channel <WORD> [fex <NUMBER>]
```

# show tenant endpoints vpc

```
show tenant WORD endpoints [type <type>] [mac <E.E.E EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE >] [vlan <NUMBER>] [ip <A.B.C.D>] [ipv6 <A:B::C:D>] vpc context <WORD> <WORD> interface vpc <WORD> [fex <fex>]
```

**Description:** Show IP endpoints on vpc

**Syntax:**

|   |  |
|---|--|
| <i>WORD</i>   | Name of the tenant to filter on (Max Size 63)  |
| <i>type</i>   | (Optional) Endpoint Type   |
| <i>E.E.E EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE</i> | (Optional) MAC address (Option 1) MAC address (Option 2) MAC address (Option 3) MAC address (Option 4) |
| <i>&lt;1-4094&gt;</i>   | (Optional) Encapsulation Vlan. Number range from=1 to=4094   |
| <i>A.B.C.D</i>  | (Optional) IP Unicast address in format i.i.i.i  |
| <i>A:B::C:D</i>   | (Optional) IPv6 address in format xxxx:xxxx, xxxx::xx  |
| context   | VPC Context  |
| <i>WORD</i>   | First VPC leaf (Max Size 4000). Number range from=0 to=9223372036854775807                             |
| <i>WORD</i>   | Second VPC leaf (Max Size 4000). Number range from=0 to=9223372036854775807                            |
| interface   | VPC Interface name   |
| vpc   | VPC Interface name   |
| <i>WORD</i>   | VPC Name (Max Size 64)   |
| <i>fex</i>  | (Optional) Fex Id. Number range from=101 to=199  |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD endpoints [type <type>] [mac <E.E.E EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE >] [vlan <NUMBER>] [ip <A.B.C.D>] [ipv6 <A:B::C:D>] vpc context <WORD> <WORD> interface vpc <WORD> [fex <fex>]
```

# show tenant epg

**show tenant WORD epg WORD**

**Description:** Show Application EPG Information

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the AEPG to filter on (Max Size 64)   |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD epg WORD
```

# show tenant epg detail

**show tenant WORD epg WORD detail**

**Description:** Show detailed view of Application EPg

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the AEPG to filter on (Max Size 64)   |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD epg WORD detail
```

# show tenant external-l2 epg

**show tenant WORD external-l2 epg WORD**

**Description:** Show command for external-l2 epgs

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the EPG to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD external-l2 epg WORD
```



# show tenant interface bridge-domain

**show tenant WORD interface bridge-domain WORD**

**Description:** Show Bridge-domain Information

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD interface bridge-domain WORD
```

# show tenant interface bridge-domain detail

**show tenant WORD interface bridge-domain WORD detail**

**Description:** Show Bridge-domain Detailed Information

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD interface bridge-domain WORD detail
```

# show tenant interface bridge-domain first-hop-security binding-table

**show tenant WORD interface bridge-domain WORD first-hop-security binding-table**

**Description:** Show Bridge-domain Binding Table Information

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD interface bridge-domain WORD first-hop-security binding-table
```

# show tenant interface bridge-domain first-hop-security statistics arp

**show tenant WORD interface bridge-domain WORD first-hop-security statistics arp**

**Description:** Show Bridge-domain First Hop Security ARP Statistics

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD interface bridge-domain WORD first-hop-security statistics arp
```

# show tenant interface bridge-domain first-hop-security statistics dhcpv4

**show tenant WORD interface bridge-domain WORD first-hop-security statistics dhcpv4**

**Description:** Show Bridge-domain First Hop Security DHCPv4 Statistics

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD interface bridge-domain WORD first-hop-security statistics dhcpv4
```

# show tenant interface bridge-domain first-hop-security statistics dhcpv6

**show tenant WORD interface bridge-domain WORD first-hop-security statistics dhcpv6**

**Description:** Show Bridge-domain First Hop Security DHCPv6 Statistics

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD interface bridge-domain WORD first-hop-security statistics dhcpv6
```

# show tenant interface bridge-domain first-hop-security statistics neighbor-discovery

**show tenant WORD interface bridge-domain WORD first-hop-security statistics neighbor-discovery**

**Description:** Show Bridge-domain First Hop Security Neighbor Discovery Statistics

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD interface bridge-domain WORD first-hop-security statistics  
neighbor-discovery
```

# show tenant ip interface bridge-domain

**show tenant WORD ip interface bridge-domain WORD**

**Description:** Show command for IP properties on interface BD

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD ip interface bridge-domain WORD
```



# show tenant ipv6 interface bridge-domain

**show tenant WORD ipv6 interface bridge-domain WORD**

**Description:** Show command for IP properties on interface BD

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the bridge-domain (Max Size 64)       |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD ipv6 interface bridge-domain WORD
```

# show tenant multicast-route-maps

**show tenant WORD multicast-route-maps**

**Description:** Show multicast route-maps per Tenant

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
|-------------|---|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD multicast-route-maps
```

# show tenant policy-map

**show tenant WORD policy-map**

**Description:** Show policy maps

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
|-------------|---|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD policy-map
```

# show tenant policy-map type data-plane

**show tenant WORD policy-map type data-plane WORD [stats]**

**Description:** Data-plane type policy-map(s)

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63)             |
| <i>WORD</i> | data-plane type policy-map(s) (Max Size 64)               |
| stats       | (Optional) Data-Plane Policer Statistics, where available |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD policy-map type data-plane WORD [stats]
```

# show tenant policy-map type qos

**show tenant WORD policy-map type qos WORD**

**Description:** QOS type policy-map(s)

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | QOS type policy-map(s) (Max Size 64)          |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD policy-map type qos WORD
```

# show tenant vrf

**show tenant WORD vrf WORD**

**Description:** Show VRF Information

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD vrf WORD
```

# show tenant vrf acllog l2

**show tenant WORD vrf WORD acllog <permitDrop> l2 flow vlan <NUMBER> srcintf <srcintf>**

**Description:** L2 flow stats

**Syntax:**

|                    |   |
|--------------------|---|
| <i>WORD</i>        | Name of the tenant to filter on (Max Size 63)               |
| <i>WORD</i>        | Name of the VRF to filter on (Max Size 64)                  |
| <i>permitDrop</i>  | permitDrop  |
| flow               | flowi stats   |
| vlan               | vlan info   |
| < <i>vlan</i> >    | < <i>vlan</i> >. Number range from=0 to=9223372036854775807 |
| srcintf            | source interface  |
| < <i>srcintf</i> > | < <i>srcintf</i> >  |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD vrf WORD acllog <permitDrop> l2 flow vlan <NUMBER> srcintf <srcintf>
```

## show tenant vrf aclog l3

**show tenant WORD vrf WORD aclog <permitDrop> l3 flow srcpctag <srcpctag> dstpctag <dstpctag> srcepgname <srcepgname> dstepgname <dstepgname> srcip <A.B.C.D or A:B::C:D> dstip <A.B.C.D or A:B::C:D> proto <proto> srcport <srcport> dstport <dstport> srcintf <srcintf>**

**Description:** L3 flow stats

### Syntax:

|                            |  |
|----------------------------|--|
| <i>WORD</i>                | Name of the tenant to filter on (Max Size 63)                              |
| <i>WORD</i>                | Name of the VRF to filter on (Max Size 64)                                 |
| <i>permitDrop</i>          | permitDrop   |
| flow                       | flow stats   |
| srcpctag                   | source pc tag  |
| < <i>srcpctag</i> >        | <srcpctag>   |
| dstpctag                   | destination pc tag   |
| < <i>dstpctag</i> >        | <dstpctag>   |
| srcepgname                 | source epg name  |
| < <i>srcepgname</i> >      | <srcepgname>   |
| dstepgname                 | destination epg name   |
| < <i>dstepgname</i> >      | <dstepgname>   |
| srcip                      | source ip  |
| <i>A.B.C.D or A:B::C:D</i> | IP address in format i.i.i.i or IPv6 address in format xxxx:xxxx, xxxx::xx |
| dstip                      | destination ip   |
| <i>A.B.C.D or A:B::C:D</i> | IP address in format i.i.i.i or IPv6 address in format xxxx:xxxx, xxxx::xx |
| proto                      | protocol   |
| < <i>proto</i> >           | <proto>  |
| srcport                    | source port  |
| < <i>srcport</i> >         | <srcport>  |
| dstport                    | destination port   |
| < <i>dstport</i> >         | <dstport>  |
| srcintf                    | source interface   |



|                              |                              |
|------------------------------|------------------------------|
| <code>&lt;srcintf&gt;</code> | <code>&lt;srcintf&gt;</code> |
|------------------------------|------------------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD vrf WORD acllog <permitDrop> l3 flow srcpctag <srcpctag> dstpctag  
<dstpctag> srcepname <srcepname> dstepname <dstepname> srcip <A.B.C.D or A:B::C:D> dstip  
<A.B.C.D or A:B::C:D> proto <proto> srcport <srcport> dstport <dstport> srcintf <srcintf>
```

# show tenant vrf detail

**show tenant WORD vrf WORD detail**

**Description:** Show detailed view of VRF

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD vrf WORD detail
```

# show tenant vrf external-l3 bgp

**show tenant WORD vrf WORD external-l3 bgp**

**Description:** Show command for BGP peers

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD vrf WORD external-l3 bgp
```

## show tenant vrf external-l3 bgp node

**show tenant WORD vrf WORD external-l3 bgp node <101-4000>**

**Description:** node to filter on

**Syntax:**

|                         |   |
|-------------------------|---|
| <i>WORD</i>             | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i>             | Name of the VRF to filter on (Max Size 64)    |
| <i>&lt;101-4000&gt;</i> | Leaf Range or Leaf Name List                  |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD vrf WORD external-l3 bgp node <101-4000>
```

# show tenant vrf external-l3 eigrp

**show tenant WORD vrf WORD external-l3 eigrp**

**Description:** Show external l3 EIGRP

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD vrf WORD external-l3 eigrp
```

# show tenant vrf external-l3 eigrp detail

**show tenant WORD vrf WORD external-l3 eigrp detail**

**Description:** Show interanl details

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD vrf WORD external-l3 eigrp detail
```

# show tenant vrf external-l3 epg

**show tenant WORD vrf WORD external-l3 epg <epgName>**

**Description:** Show command for external-l3 epgs

**Syntax:**

|                        |   |
|------------------------|---|
| <i>WORD</i>            | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i>            | Name of the VRF to filter on (Max Size 64)    |
| <i>&lt;epgName&gt;</i> | Name of the EPG to filter on                  |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD vrf WORD external-l3 epg <epgName>
```

# show tenant vrf external-l3 epg detail

**show tenant WORD vrf WORD external-l3 epg <epgName> detail**

**Description:** external-l3 epg in detail with operational status

**Syntax:**

|                        |   |
|------------------------|---|
| <i>WORD</i>            | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i>            | Name of the VRF to filter on (Max Size 64)    |
| <i>&lt;epgName&gt;</i> | Name of the EPG to filter on                  |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD vrf WORD external-l3 epg <epgName> detail
```



# show tenant vrf external-l3 epg name

**show tenant WORD vrf WORD external-l3 epg <epgName> name <epgName>**

**Description:** EPG name to filter on

**Syntax:**

|                        |   |
|------------------------|---|
| <i>WORD</i>            | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i>            | Name of the VRF to filter on (Max Size 64)    |
| <i>&lt;epgName&gt;</i> | Name of the EPG to filter on                  |
| <i>&lt;epgName&gt;</i> | Name of the EPG to filter on                  |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD vrf WORD external-l3 epg <epgName> name <epgName>
```

## show tenant vrf external-l3 epg name detail

**show tenant WORD vrf WORD external-l3 epg <epgName> name <epgName> detail**

**Description:** external-l3 epg in detail with operational status

**Syntax:**

|                        |   |
|------------------------|---|
| <i>WORD</i>            | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i>            | Name of the VRF to filter on (Max Size 64)    |
| <i>&lt;epgName&gt;</i> | Name of the EPG to filter on                  |
| <i>&lt;epgName&gt;</i> | Name of the EPG to filter on                  |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD vrf WORD external-l3 epg <epgName> name <epgName> detail
```

# show tenant vrf external-l3 interfaces

**show tenant WORD vrf WORD external-l3 interfaces**

**Description:** Show tenant <tenant> vrf <vrf> external l3 interfaces

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD vrf WORD external-l3 interfaces
```

# show tenant vrf external-l3 interfaces detail

**show tenant WORD vrf WORD external-l3 interfaces detail**

**Description:** Show interfaces details

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD vrf WORD external-l3 interfaces detail
```

# show tenant vrf external-l3 ospf

**show tenant WORD vrf WORD external-l3 ospf**

**Description:** Show command for IPv4 and IPv6 external l3 OSPF configuration

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD vrf WORD external-l3 ospf
```

# show tenant vrf external-l3 ospf detail

**show tenant WORD vrf WORD external-l3 ospf detail**

**Description:** Show internal details

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD vrf WORD external-l3 ospf detail
```

# show tenant vrf external-l3 route-map

**show tenant WORD vrf WORD external-l3 route-map [name <l3out name>]**

**Description:** Show command for external-l3 route-map

**Syntax:**

|                           |   |
|---------------------------|---|
| <i>WORD</i>               | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i>               | Name of the VRF to filter on (Max Size 64)    |
| <i>&lt;l3out name&gt;</i> | (Optional) Name of the route-map to filter on |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD vrf WORD external-l3 route-map [name <l3out name>]
```

# show tenant vrf external-l3 route-map detail

**show tenant WORD vrf WORD external-l3 route-map [name <l3out name>] detail**

**Description:** Show external-l3 route-map in detail with operational status

**Syntax:**

|                           |   |
|---------------------------|---|
| <i>WORD</i>               | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i>               | Name of the VRF to filter on (Max Size 64)    |
| <i>&lt;l3out name&gt;</i> | (Optional) Name of the route-map to filter on |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD vrf WORD external-l3 route-map [name <l3out name>] detail
```



# show tenant vrf external-l3 scale

**show tenant WORD vrf WORD external-l3 scale**

**Description:** scale command

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD vrf WORD external-l3 scale
```

# show tenant vrf external-l3 scale detail

**show tenant WORD vrf WORD external-l3 scale detail**

**Description:** Show scale details

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD vrf WORD external-l3 scale detail
```

# show tenant vrf external-l3 static-route

**show tenant WORD vrf WORD external-l3 static-route**

**Description:** Show command for external-l3 static routes

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD vrf WORD external-l3 static-route
```

# show tenant vrf external-l3 static-route detail

**show tenant WORD vrf WORD external-l3 static-route detail**

**Description:** static-route in detail with operational status

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD vrf WORD external-l3 static-route detail
```

# show tenant vrf external-l3 static-route node

**show tenant WORD vrf WORD external-l3 static-route node**

**Description:** node to filter on

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |
| <i>arg</i>  | Leaf Range or Leaf Name List                  |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD vrf WORD external-l3 static-route node
```

## show tenant vrf external-l3 static-route node detail

**show tenant WORD vrf WORD external-l3 static-route node detail**

**Description:** static-route in detail with operational status

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |
| <i>arg</i>  | Leaf Range or Leaf Name List                  |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD vrf WORD external-l3 static-route node detail
```

# show tenant vrf multicast

**show tenant WORD vrf WORD multicast**

**Description:** Show multicast configuration per VRF

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the tenant to filter on (Max Size 63) |
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64)    |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show tenant WORD vrf WORD multicast
```

# show troubleshoot session

**show troubleshoot session** <session\_name>

**Description:** Show session

**Syntax:**

|                     |              |
|---------------------|--------------|
| <i>session_name</i> | Session name |
|---------------------|--------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show troubleshoot session <session_name>
```



# show troubleshoot session atomiccounter

**show troubleshoot session <session\_name> atomiccounter**

**Description:** Show atomic counters

**Syntax:**

|                     |              |
|---------------------|--------------|
| <i>session_name</i> | Session name |
|---------------------|--------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show troubleshoot session <session_name> atomiccounter
```

# show troubleshoot session audit

**show troubleshoot session <session\_name> audit**

**Description:** Show audit

**Syntax:**

|                     |              |
|---------------------|--------------|
| <i>session_name</i> | Session name |
|---------------------|--------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show troubleshoot session <session_name> audit
```

# show troubleshoot session contracts

**show troubleshoot session <session\_name> contracts**

**Description:** Show contracts

**Syntax:**

|                     |              |
|---------------------|--------------|
| <i>session_name</i> | Session name |
|---------------------|--------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show troubleshoot session <session_name> contracts
```

# show troubleshoot session deployments

**show troubleshoot session <session\_name> deployments**

**Description:** Show deployment changes

**Syntax:**

|                     |              |
|---------------------|--------------|
| <i>session_name</i> | Session name |
|---------------------|--------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show troubleshoot session <session_name> deployments
```

# show troubleshoot session events

**show troubleshoot session <session\_name> events**

**Description:** Show events

**Syntax:**

|                     |              |
|---------------------|--------------|
| <i>session_name</i> | Session name |
|---------------------|--------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show troubleshoot session <session_name> events
```

# show troubleshoot session faults

**show troubleshoot session <session\_name> faults**

**Description:** Show faults

**Syntax:**

|                     |              |
|---------------------|--------------|
| <i>session_name</i> | Session name |
|---------------------|--------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show troubleshoot session <session_name> faults
```

# show troubleshoot session latency

**show troubleshoot session** <session\_name> latency

**Description:** Show latency stats

**Syntax:**

|                     |              |
|---------------------|--------------|
| <i>session_name</i> | Session name |
|---------------------|--------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show troubleshoot session <session_name> latency
```

# show troubleshoot session monitor

**show troubleshoot session** <session\_name> monitor

**Description:** Show monitor

**Syntax:**

|                     |              |
|---------------------|--------------|
| <i>session_name</i> | Session name |
|---------------------|--------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show troubleshoot session <session_name> monitor
```



# show troubleshoot session reports

**show troubleshoot session <session\_name> reports**

**Description:** Show reports

**Syntax:**

|                     |              |
|---------------------|--------------|
| <i>session_name</i> | Session name |
|---------------------|--------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show troubleshoot session <session_name> reports
```

# show troubleshoot session statistics

**show troubleshoot session** <session\_name> **statistics**

**Description:** Show statistics

**Syntax:**

|                     |              |
|---------------------|--------------|
| <i>session_name</i> | Session name |
|---------------------|--------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show troubleshoot session <session_name> statistics
```

# show troubleshoot session topology

**show troubleshoot session <session\_name> topology**

**Description:** Show topology

**Syntax:**

|                     |              |
|---------------------|--------------|
| <i>session_name</i> | Session name |
|---------------------|--------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show troubleshoot session <session_name> topology
```

# show troubleshoot session traceroute

**show troubleshoot session** <session\_name> traceroute

**Description:** Show traceroute

**Syntax:**

|                     |              |
|---------------------|--------------|
| <i>session_name</i> | Session name |
|---------------------|--------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show troubleshoot session <session_name> traceroute
```

# show troubleshoot sessions

**show troubleshoot sessions**

**Description:** Show sessions

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show troubleshoot sessions
```

# show username

**show username** <WORD>

**Description:** Show user information

**Syntax:**

|             |           |
|-------------|-----------|
| <i>WORD</i> | User name |
|-------------|-----------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show username <WORD>
```

# show username detail

**show username <WORD> detail**

**Description:** Show user information

**Syntax:**

|             |           |
|-------------|-----------|
| <i>WORD</i> | User name |
|-------------|-----------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show username <WORD> detail
```

# show version

**show version**

**Description:** Show version information

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show version
```



# show vlan-domain

**show vlan-domain** [name <arg>] [vlan] [leaf <arg>] [detail]

**Description:** Show command for vlan-domain

**Syntax:**

|              |  |
|--------------|--|
| <i>arg</i>   | (Optional) Vlan-domain name                                |
| <vlan-range> | (Optional) VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19 |
| <i>arg</i>   | (Optional) Leaf id. Number range from=101 to=4000          |
| detail       | (Optional) vlan-domain in detail with concrete MOs         |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show vlan-domain [name <>] [vlan] [leaf <>] [detail]
```

# show vmware domain

**show vmware domain**

**Description:** Show VMware domain information

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show vmware domain
```

# show vmware domain name

**show vmware domain name** <name>

**Description:** VMware domain name

**Syntax:**

|        |                    |
|--------|--------------------|
| <name> | VMware domain name |
|--------|--------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show vmware domain name <name>
```

# show vmware domain name epg

**show vmware domain name <name> epg**

**Description:** Show VMware domain EPG details

**Syntax:**

|                     |                    |
|---------------------|--------------------|
| <i>&lt;name&gt;</i> | VMware domain name |
|---------------------|--------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show vmware domain name <name> epg
```

# show vmware domain name esx

**show vmware domain name** <name> esx <esx-ip>

**Description:** Show VMware ESX information

**Syntax:**

|          |                    |
|----------|--------------------|
| <name>   | VMware domain name |
| <esx-ip> | ESX IP             |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show vmware domain name <name> esx <esx-ip>
```

# show vmware domain name port-group

**show vmware domain name <name> port-group**

**Description:** Show VMware port group information

**Syntax:**

|        |                    |
|--------|--------------------|
| <name> | VMware domain name |
|--------|--------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show vmware domain name <name> port-group
```

# show vmware domain name trunk-portgroup

**show vmware domain name** <name> trunk-portgroup [name <name>]

**Description:** Show VMware domain trunk portgroup details

**Syntax:**

|        |                                 |
|--------|---------------------------------|
| <name> | VMware domain name              |
| <name> | (Optional) trunk portgroup name |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show vmware domain name <name> trunk-portgroup [name <name>]
```

# show vmware domain name vcenter

**show vmware domain name** <name> vcenter <hostname|ip>

**Description:** VMware vCenter ip or hostname

**Syntax:**

|               |                        |
|---------------|------------------------|
| <name>        | VMware domain name     |
| <hostname ip> | vCenter hostname or IP |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show vmware domain name <name> vcenter <hostname|ip>
```



# show vmware domain name vm

**show vmware domain name <name> vm**

**Description:** Show VMware VM information

**Syntax:**

|        |                    |
|--------|--------------------|
| <name> | VMware domain name |
|--------|--------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show vmware domain name <name> vm
```

# show vmware domain name vm name

**show vmware domain name** <name> vm name <vm-name>

**Description:** Show detailed VMware VM information

**Syntax:**

|           |                    |
|-----------|--------------------|
| <name>    | VMware domain name |
| <vm-name> | VM Name            |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show vmware domain name <name> vm name <vm-name>
```

## show vmware vm

**show vmware vm** [*name* <WORD>] [*ip* <A.B.C.D>] [*mac* <E.E.E EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE  
EEEE.EEEE.EEEE >]

**Description:** Show VMware VM information

**Syntax:**

|   |   |
|---|---|
| <i>WORD</i>   | (Optional) Specify a VM name  |
| <i>A.B.C.D</i>  | (Optional) IP address in format i.i.i.i   |
| <i>E.E.E EE-EE-EE-EE-EE-EE<br/>EE:EE:EE:EE:EE:EE<br/>EEEE.EEEE.EEEE</i> | (Optional) MAC address (Option 1) MAC address (Option 2) MAC<br>address (Option 3) MAC address (Option 4) |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show vmware vm [name <WORD>] [ip <A.B.C.D>] [mac <E.E.E EE-EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE  
EEEE.EEEE.EEEE >]
```

# show vpc

## show vpc map <vpc-list>

**Description:** Show vpc mapping

**Syntax:**

|            |             |
|------------|-------------|
| map        | Map by name |
| <vpc-list> | vpc names   |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show vpc map <vpc-list>
```

# show vpc map leaf

**show vpc map <vpc-list> leaf WORD [fex <NUMBER>]**

**Description:** Leaf

**Syntax:**

|            |   |
|------------|---|
| map        | Map by name                                     |
| <vpc-list> | vpc names                                       |
| WORD       | Leaf Range or Leaf Name List                    |
| <101-199>  | (Optional) Fex ID. Number range from=101 to=199 |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show vpc map <vpc-list> leaf WORD [fex <NUMBER>]
```

# show vrf

**show vrf WORD**

**Description:** Show VRF Information

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64) |
|-------------|--|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show vrf WORD
```

# show vrf detail

**show vrf WORD detail**

**Description:** Show detailed view of VRF

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Name of the VRF to filter on (Max Size 64) |
|-------------|--|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show vrf WORD detail
```

# show vsan-domain

**show vsan-domain** [name <arg>] [detail]

**Description:** Show command for vsan-domain

**Syntax:**

|            |   |
|------------|---|
| <i>arg</i> | (Optional) Vsan-domain name                 |
| detail     | (Optional) Vsan-domain detailed information |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# show vsan-domain [name <>] [detail]
```



# shut

## shut

**Description:** Disable BFD

**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)# shut
```

## shut

**Description:** Disable BFD

**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)# shut
```

## shut

**Description:** Disable monitor session

**Command Mode:** monitor virtual : Configure monitor session for virtual switches

**Command Path:**

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

# shutdown

## shutdown

**Description:** Administrative state of the Policer

**Command Mode:** policy-map type data-plane : Create a policymap of DataPlane type to police/reclassify the traffic

**Command Path:**

```
# configure [['terminal', 't']]
(config)# policy-map type data-plane <WORD>
(config-pmap-dpp)# shutdown
```

## shutdown

**Description:** Disable the class of service specified

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

**Command Path:**

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

## shutdown

**Description:** Set admin state to disabled

**Command Mode:** switchport port-authentication : Port authentication configuration

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template policy-group <WORD>
(config-pol-grp-if)# switchport port-authentication <WORD>
(config-port-authentication)# shutdown
```

## shutdown

**Description:** Shutdown AEPg

**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)# shutdown
```

**shutdown**

**Description:** Administrative state of the Policer

**Command Mode:** policy-map type data-plane : data-plane policy type

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# policy-map type data-plane <WORD>
(config-tenant-pmap-dpp)# shutdown
```

**shutdown**

**Description:** dscp-map toggling

**Command Mode:** qos : Set DSCP Class translation values

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# qos dscp-map <WORD>
(config-qos-cmap)# shutdown
```

**shutdown**

**Description:** Disable Interface

**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)# shutdown
```

**shutdown**

**Description:** Disable Port Channel

**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)# shutdown
```

**shutdown**

**Description:** Disable Interface

**Command Mode:** interface vfc : Virtual Fiber Channel interface

**Command Path:**

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

### shutdown

**Description:** Disable Interface

**Command Mode:** interface vfc-po : VFC Port Channel interface

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vfc-po <WORD> [fex <fex>]
(config-leaf-if)# shutdown
```

### shutdown

**Description:** Disable Interface

**Command Mode:** interface fc : FC Interface

**Command Path:**

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

### shutdown

**Description:** Disable FC Port Channel

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface fc-port-channel <WORD>
(config-leaf-fc-pc)# shutdown
```

### shutdown

**Description:** Disable Interface

**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)# shutdown
```

### shutdown

**Description:** Disable Port Channel

**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)# shutdown
```

### shutdown

**Description:** Disable Interface

**Command Mode:** interface vfc : Virtual Fiber Channel interface

**Command Path:**

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

### shutdown

**Description:** Disable Interface

**Command Mode:** interface vfc-po : VFC Port Channel interface

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vfc-po <WORD> [fex <fex>]
(config-leaf-if)# shutdown
```

### shutdown

**Description:** Disable Interface

**Command Mode:** interface fc : FC Interface

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface fc <ifRange>
```

```
(config-leaf-fc-if)# shutdown
```

### shutdown

**Description:** Disable FC Port Channel

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface fc-port-channel <WORD>
(config-leaf-fc-pc)# shutdown
```

### shutdown

**Description:** Disable interface

**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)# shutdown
```

### shutdown

**Description:** Disable monitor session

**Command Mode:** monitor access : Configue monitor session for access interfaces

**Command Path:**

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

### shutdown

**Description:** Disable monitor session

**Command Mode:** monitor fabric : Configue monitor session for fabric interfaces

**Command Path:**

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

**shutdown**

**Description:** Disable monitor session

**Command Mode:** monitor tenant : Configure monitor session for tenant EPGs

**Command Path:**

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

# site-id

## site-id <WORD>

**Description:** ID of the network where the site is deployed

### Syntax:

|             |   |
|-------------|---|
| <i>WORD</i> | The site id (Max Size 512) surrounded by quotes |
|-------------|---|

**Command Mode:** destination-profile : Configure destination profile Parameters

### Command Path:

```
# configure [['terminal', 't']]
(config)# callhome common
(config-callhome)# destination-profile
(config-callhome-destnprof)# site-id <WORD>
```

## site-id <WORD>

**Description:** ID of the network where the site is deployed

### Syntax:

|             |   |
|-------------|---|
| <i>WORD</i> | The site id (Max Size 512) surrounded by quotes |
|-------------|---|

**Command Mode:** destination-profile : Configure destination profile Parameters

### Command Path:

```
# configure [['terminal', 't']]
(config)# smartcallhome common
(config-smartcallhome)# destination-profile
(config-callhome-destnprof)# site-id <WORD>
```



# sla-detectmultiplier

**sla-detectmultiplier** <NUMBER>

**Description:** Configure SLA Multiplier for IPSLA Monitoring Policy

**Syntax:**

|        |  |
|--------|--|
| <1-99> | Configure Detect Multiplier for IPSLA Monitoring Policy. Number range from=1 to=99 |
|--------|--|

**Command Mode:** ipsla-pol : Configure IPSLA Monitoring Policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# ipsla-pol <WORD>
(config-ipsla-pol)# sla-detectmultiplier <NUMBER>
```

# sla-frequency

**sla-frequency** <NUMBER>

**Description:** Configure SLA frequency for IPSLA Monitoring Policy

**Syntax:**

|         |   |
|---------|---|
| <1-299> | Configure SLA frequency for IPSLA Monitoring Policy. Number range from=1 to=299 |
|---------|---|

**Command Mode:** ipsla-pol : Configure IPSLA Monitoring Policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# ipsla-pol <WORD>
(config-ipsla-pol)# sla-frequency <NUMBER>
```

# sla-port

**sla-port** <NUMBER>

**Description:** Configure SLA Port Number for IPSLA Monitoring Policy

**Syntax:**

|           |   |
|-----------|---|
| <0-65535> | Configure SLA Port Number for IPSLA Monitoring Policy. Number range from=0 to=65535 |
|-----------|---|

**Command Mode:** sla-type : Configure SLA Type for IPSLA Monitoring Policy, example 'sla-type tcp' or 'sla-type imcp'

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# ipsla-pol <WORD>
(config-ipsla-pol)# sla-type <WORD>
(config-sla-type)# sla-port <NUMBER>
```

# sla-type

**sla-type** <WORD>

**Description:** Configure SLA Type for IPSLA Monitoring Policy, example 'sla-type tcp' or 'sla-type imcp'

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Configure SLA Type for IPSLA Monitoring Policy (Max Size None) |
|-------------|--|

**Command Mode:** ipsla-pol : Configure IPSLA Monitoring Policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# ipsla-pol <WORD>
(config-ipsla-pol)# sla-type <WORD>
```

# slot

**slot <card>**

**Description:** Specify Slot Number

**Syntax:**

|             |  |
|-------------|--|
| <i>card</i> | Slot Number. Number range from=1 to=64 |
|-------------|--|

**Command Mode:** leaf : Configure Leaf Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# slot <card>
```

**slot <card>**

**Description:** Specify Slot Number

**Syntax:**

|             |  |
|-------------|--|
| <i>card</i> | Slot Number. Number range from=1 to=64 |
|-------------|--|

**Command Mode:** spine : Configure Spine Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# slot <card>
```

## slow-drain congestion-timeout action

### slow-drain congestion-timeout action err-disable|log

**Description:** Configure congestion action

**Syntax:**

|             |               |
|-------------|---------------|
| err-disable | Error disable |
| log         | Syslog        |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template policy-group <WORD>
(config-pol-grp-if)# slow-drain congestion-timeout action err-disable|log
```

### slow-drain congestion-timeout action err-disable|log

**Description:** Configure congestion action

**Syntax:**

|             |               |
|-------------|---------------|
| err-disable | Error disable |
| log         | Syslog        |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template port-channel <WORD>
(config-po-ch-if)# slow-drain congestion-timeout action err-disable|log
```

### slow-drain congestion-timeout action err-disable|log

**Description:** Configure congestion action

**Syntax:**

|             |               |
|-------------|---------------|
| err-disable | Error disable |
| log         | Syslog        |

**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)# slow-drain congestion-timeout action err-disable|log
```

**slow-drain congestion-timeout action err-disable|log****Description:** Configure congestion action**Syntax:**

|             |               |
|-------------|---------------|
| err-disable | Error disable |
| log         | Syslog        |

**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)# slow-drain congestion-timeout action err-disable|log
```

**slow-drain congestion-timeout action err-disable|log****Description:** Configure congestion action**Syntax:**

|             |               |
|-------------|---------------|
| err-disable | Error disable |
| log         | Syslog        |

**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)# slow-drain congestion-timeout action err-disable|log
```

**slow-drain congestion-timeout action err-disable|log****Description:** Configure congestion action**Syntax:**

|             |               |
|-------------|---------------|
| err-disable | Error disable |
| log         | Syslog        |

**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)# slow-drain congestion-timeout action err-disable|log
```

### slow-drain congestion-timeout action err-disable|log

**Description:** Configure congestion action

**Syntax:**

|             |               |
|-------------|---------------|
| err-disable | Error disable |
| log         | Syslog        |

**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)# slow-drain congestion-timeout action err-disable|log
```



# slow-drain congestion-timeout count

## slow-drain congestion-timeout count <NUMBER>

**Description:** Configure number of pause frames per second

**Syntax:**

|                      |   |
|----------------------|---|
| <i>&lt;range&gt;</i> | Configure number of pause frames per second. Number range from=1 to=10000 |
|----------------------|---|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template policy-group <WORD>
(config-pol-grp-if)# slow-drain congestion-timeout count <NUMBER>
```

## slow-drain congestion-timeout count <NUMBER>

**Description:** Configure number of pause frames per second

**Syntax:**

|                      |   |
|----------------------|---|
| <i>&lt;range&gt;</i> | Configure number of pause frames per second. Number range from=1 to=10000 |
|----------------------|---|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template port-channel <WORD>
(config-po-ch-if)# slow-drain congestion-timeout count <NUMBER>
```

## slow-drain congestion-timeout count <NUMBER>

**Description:** Configure number of pause frames per second

**Syntax:**

|                      |   |
|----------------------|---|
| <i>&lt;range&gt;</i> | Configure number of pause frames per second. Number range from=1 to=10000 |
|----------------------|---|

**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)# slow-drain congestion-timeout count <NUMBER>
```

### slow-drain congestion-timeout count <NUMBER>

**Description:** Configure number of pause frames per second

**Syntax:**

|         |   |
|---------|---|
| <range> | Configure number of pause frames per second. Number range from=1 to=10000 |
|---------|---|

**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)# slow-drain congestion-timeout count <NUMBER>
```

### slow-drain congestion-timeout count <NUMBER>

**Description:** Configure number of pause frames per second

**Syntax:**

|         |   |
|---------|---|
| <range> | Configure number of pause frames per second. Number range from=1 to=10000 |
|---------|---|

**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)# slow-drain congestion-timeout count <NUMBER>
```

### slow-drain congestion-timeout count <NUMBER>

**Description:** Configure number of pause frames per second

**Syntax:**

|         |   |
|---------|---|
| <range> | Configure number of pause frames per second. Number range from=1 to=10000 |
|---------|---|

**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)# slow-drain congestion-timeout count <NUMBER>
```

### slow-drain congestion-timeout count <NUMBER>

**Description:** Configure number of pause frames per second

**Syntax:**

|         |   |
|---------|---|
| <range> | Configure number of pause frames per second. Number range from=1 to=10000 |
|---------|---|

**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)# slow-drain congestion-timeout count <NUMBER>
```

# slow-drain pause

## slow-drain pause timeout <NUMBER>

**Description:** Configure pause frame timeout

**Syntax:**

|            |  |
|------------|--|
| timeout    | Configure pause frame timeout  |
| <interval> | Configure pause timeout in milliseconds. Number range from=100 to=1000 |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template policy-group <WORD>
(config-pol-grp-if)# slow-drain pause timeout <NUMBER>
```

## slow-drain pause timeout <NUMBER>

**Description:** Configure pause frame timeout

**Syntax:**

|            |  |
|------------|--|
| timeout    | Configure pause frame timeout  |
| <interval> | Configure pause timeout in milliseconds. Number range from=100 to=1000 |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template port-channel <WORD>
(config-po-ch-if)# slow-drain pause timeout <NUMBER>
```

## slow-drain pause timeout <NUMBER>

**Description:** Configure pause frame timeout

**Syntax:**

|            |  |
|------------|--|
| timeout    | Configure pause frame timeout  |
| <interval> | Configure pause timeout in milliseconds. Number range from=100 to=1000 |

**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)# slow-drain pause timeout <NUMBER>
```

**slow-drain pause timeout <NUMBER>****Description:** Configure pause frame timeout**Syntax:**

|            |  |
|------------|--|
| timeout    | Configure pause frame timeout  |
| <interval> | Configure pause timeout in milliseconds. Number range from=100 to=1000 |

**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)# slow-drain pause timeout <NUMBER>
```

**slow-drain pause timeout <NUMBER>****Description:** Configure pause frame timeout**Syntax:**

|            |  |
|------------|--|
| timeout    | Configure pause frame timeout  |
| <interval> | Configure pause timeout in milliseconds. Number range from=100 to=1000 |

**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)# slow-drain pause timeout <NUMBER>
```

**slow-drain pause timeout <NUMBER>****Description:** Configure pause frame timeout**Syntax:**

|         |                               |
|---------|-------------------------------|
| timeout | Configure pause frame timeout |
|---------|-------------------------------|

|                         |  |
|-------------------------|--|
| <i>&lt;interval&gt;</i> | Configure pause timeout in milliseconds. Number range from=100 to=1000 |
|-------------------------|--|

**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)# slow-drain pause timeout <NUMBER>
```

**slow-drain pause timeout <NUMBER>**

**Description:** Configure pause frame timeout

**Syntax:**

|                         |  |
|-------------------------|--|
| timeout                 | Configure pause frame timeout  |
| <i>&lt;interval&gt;</i> | Configure pause timeout in milliseconds. Number range from=100 to=1000 |

**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)# slow-drain pause timeout <NUMBER>
```

# slow-timer

**slow-timer <NUMBER>**

**Description:** Configure BFD SLOW-TIMER value in milliseconds

**Syntax:**

|                         |   |
|-------------------------|---|
| <i>&lt;interval&gt;</i> | BFD interval. Number range from=1000 to=30000 |
|-------------------------|---|

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

**Command Path:**

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

# smartcallhome

## smartcallhome common

**Description:** Smart Callhome common policy configuration mode

**Syntax:**

|        |                                |
|--------|--------------------------------|
| common | Create a smart Callhome Policy |
|--------|--------------------------------|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# smartcallhome common
```



# snapshot download

**snapshot download <WORD>**

**Description:** Configuration snapshot download setup mode

**Syntax:**

|             |                          |
|-------------|--------------------------|
| <i>WORD</i> | Snapshot downloader name |
|-------------|--------------------------|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# snapshot download <WORD>
```

# snapshot export

**snapshot export <WORD>**

**Description:** Configuration export setup mode

**Syntax:**

|             |                           |
|-------------|---------------------------|
| <i>WORD</i> | Export configuration name |
|-------------|---------------------------|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]  
(config)# snapshot export <WORD>
```

# snapshot import

**snapshot import** <WORD>

**Description:** Configuration import setup mode

**Syntax:**

|             |                           |
|-------------|---------------------------|
| <i>WORD</i> | Import configuration name |
|-------------|---------------------------|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# snapshot import <WORD>
```

# snapshot rollback

**snapshot rollback <WORD>**

**Description:** Configuration rollback setup mode

**Syntax:**

|             |                             |
|-------------|-----------------------------|
| <i>WORD</i> | Rollback configuration name |
|-------------|-----------------------------|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# snapshot rollback <WORD>
```

# snapshot upload

**snapshot upload <WORD>**

**Description:** Configuration snapshot upload setup mode

**Syntax:**

|             |                        |
|-------------|------------------------|
| <i>WORD</i> | Snapshot uploader name |
|-------------|------------------------|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# snapshot upload <WORD>
```

# snmp-server clientgroup

**snmp-server clientgroup** <group-name> [management-epg <mgmt-epg>] [client <ip-address/hostname>]

**Description:** Configure SNMP client-group

**Syntax:**

|                       |   |
|-----------------------|---|
| <group-name>          | SNMP clientgroup                                  |
| <mgmt-epg>            | (Optional) Management EPG (default: oob-default)  |
| <ip-address/hostname> | (Optional) Ip-address/hostname of the snmp client |

**Command Mode:** template snmp-fabric : Simple Network Management Protocol (SNMP)

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template snmp-fabric <WORD>
(config-template-snmp-fabric)# snmp-server clientgroup <group-name> [management-epg
<mgmt-epg>] [client <ip-address/hostname>]
```

# snmp-server community

**snmp-server community <community-name>**

**Description:** Configure SNMP community

**Syntax:**

|                               |                |
|-------------------------------|----------------|
| <i>&lt;community-name&gt;</i> | SNMP community |
|-------------------------------|----------------|

**Command Mode:** template snmp-fabric : Simple Network Management Protocol (SNMP)

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template snmp-fabric <WORD>
(config-template-snmp-fabric)# snmp-server community <community-name>
```

# snmp-server contact

**snmp-server contact <contact-name>**

**Description:** Configure SNMP contact

**Syntax:**

|                             |                   |
|-----------------------------|-------------------|
| <i>&lt;contact-name&gt;</i> | SNMP contact name |
|-----------------------------|-------------------|

**Command Mode:** template snmp-fabric : Simple Network Management Protocol (SNMP)

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template snmp-fabric <WORD>
(config-template-snmp-fabric)# snmp-server contact <contact-name>
```



# snmp-server host

**snmp-server host** <ip-address/hostname> traps-version 1|2c|3 <community> auth|none|priv [udp-port <port>] [management-epg <mgmt-epg>]

**Description:** Configure SNMP trap host

**Syntax:**

|                       |  |
|-----------------------|--|
| <ip-address/hostname> | Ip-address/hostname of the snmp trap destination |
| traps-version         | SNMP Version to use for traps                    |
| 1                     | Use SNMPv1                                       |
| 2c                    | Use SNMPv2                                       |
| 3                     | Use SNMPv3                                       |
| <community>           | SNMP community/security                          |
| auth                  | Use Authentication Only                          |
| none                  | Use No Authentication                            |
| priv                  | Use Authentication and Encryption                |
| <port>                | (Optional) UDP port for traps (default 162)      |
| <mgmt-epg>            | (Optional) Management EPG (default: oob-default) |

**Command Mode:** template snmp-fabric : Simple Network Management Protocol (SNMP)

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template snmp-fabric <WORD>
(config-template-snmp-fabric)# snmp-server host <ip-address/hostname> traps-version 1|2c|3
<community> auth|none|priv [udp-port <port>] [management-epg <mgmt-epg>]
```

# snmp-server location

**snmp-server location** <location-name>

**Description:** Configure SNMP location

**Syntax:**

|                 |               |
|-----------------|---------------|
| <location-name> | SNMP location |
|-----------------|---------------|

**Command Mode:** template snmp-fabric : Simple Network Management Protocol (SNMP)

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template snmp-fabric <WORD>
(config-template-snmp-fabric)# snmp-server location <location-name>
```

# snmp-server protocol

## snmp-server protocol enable

**Description:** Enable SNMP protocol

**Syntax:**

|        |                      |
|--------|----------------------|
| enable | Enable SNMP protocol |
|--------|----------------------|

**Command Mode:** template snmp-fabric : Simple Network Management Protocol (SNMP)

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template snmp-fabric <WORD>
(config-template-snmp-fabric)# snmp-server protocol enable
```

# snmp-server trap-fwd-server

**snmp-server trap-fwd-server <server-ip> [port <port>]**

**Description:** Configure SNMP Trap Forwarding Server

**Syntax:**

|                          |   |
|--------------------------|---|
| <i>&lt;server-ip&gt;</i> | SNMP trap-fwd-server  |
| <i>port</i>              | (Optional) SNMP server port for accounting logs. Number range from=0 to=65535 |

**Command Mode:** template snmp-fabric : Simple Network Management Protocol (SNMP)

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template snmp-fabric <WORD>
(config-template-snmp-fabric)# snmp-server trap-fwd-server <server-ip> [port <port>]
```

## snmp-server user

**snmp-server user <user-name> auth sha|md5 priv aes|des|none**

**Description:** Configure SNMP user

**Syntax:**

|                          |   |
|--------------------------|---|
| <i>&lt;user-name&gt;</i> | SNMP user                                 |
| auth                     | Authentication Type                       |
| sha                      | Use HMAC SHA algorithm for authentication |
| md5                      | Use HMAC MD5 algorithm for authentication |
| priv                     | Privacy Type                              |
| aes                      | Use 128-bit AES algorithm for privacy     |
| des                      | Use 64-bit DES algorithm for privacy      |
| none                     | Do not use privacy                        |

**Command Mode:** template snmp-fabric : Simple Network Management Protocol (SNMP)

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template snmp-fabric <WORD>
(config-template-snmp-fabric)# snmp-server user <user-name> auth sha|md5 priv aes|des|none
```

# source-guard-admin-status

## source-guard-admin-status enabled-both|disabled

**Description:** Config source guard administrative status in first hop security bridge domain policy

**Syntax:**

|              |  |
|--------------|--|
| enabled-both | Enable source guard for both IPv4 and IPv6 |
| disabled     | Disable source guard                       |

**Command Mode:** security-policy : Configuration for security policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# first-hop-security
(config-tenant-fhs)# security-policy <WORD>
(config-tenant-fhs-secpol)# source-guard-admin-status enabled-both|disabled
```

# source

**source address <A.B.C.D|A:B::C:D/LEN>**

**Description:** Configure source

**Syntax:**

|                             |  |
|-----------------------------|--|
| address                     | IP Address   |
| <i>A.B.C.D A:B::C:D/LEN</i> | Source of the exporter in format x.x.x.x x::x/m. Recommended to contain room for at least 12 host bits |

**Command Mode:** flow exporter : Configure Netflow Exporter

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# flow exporter <WORD> destination address <A.B.C.D or A:B::C:D> transport
udp <dstPort>
(config-tn-flow-exporter)# source address <A.B.C.D|A:B::C:D/LEN>
```

**source address <A.B.C.D|A:B::C:D/LEN>**

**Description:** Configure source

**Syntax:**

|                             |  |
|-----------------------------|--|
| address                     | IP Address   |
| <i>A.B.C.D A:B::C:D/LEN</i> | Source of the exporter in format x.x.x.x x::x/m. Recommended to contain room for at least 12 host bits |

**Command Mode:** flow exporter : Configure Netflow Exporter

**Command Path:**

```
# configure [['terminal', 't']]
(config)# flow exporter <WORD> destination address <A.B.C.D or A:B::C:D> transport udp
<dstPort>
(config-flow-exporter)# source address <A.B.C.D|A:B::C:D/LEN>
```

**source address <A.B.C.D|A:B::C:D/LEN>**

**Description:** Configure source

**Syntax:**

|                             |  |
|-----------------------------|--|
| address                     | IP Address   |
| <i>A.B.C.D A:B::C:D/LEN</i> | Source of the exporter in format x.x.x.x x::x/m. Recommended to contain room for at least 12 host bits |

**Command Mode:** flow vm-exporter : Configure NetFlow Exporter for VM Networking

**Command Path:**

```
# configure [['terminal', 't']]
(config)# flow vm-exporter <WORD> destination address <A.B.C.D or A:B::C:D> transport udp
<dstPort>
(config-flow-vm-exporter)# source address <A.B.C.D|A:B::C:D/LEN>
```

**source tenant <WORD> application <WORD> epg <WORD> [mac <E.E.E EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE >]**

**Description:** Configure monitor virtual source

**Syntax:**

|  |  |
|--|--|
| tenant   | tenant   |
| <i>WORD</i>  | tenant name (Max Size 63)  |
| application  | application  |
| <i>WORD</i>  | application name (Max Size 64)   |
| epg  | epg  |
| <i>WORD</i>  | epg name (Max Size 64)   |
| <i>E.E.E EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE</i> | (Optional) MAC address (Option 1) MAC address (Option 2) MAC address (Option 3) MAC address (Option 4) |

**Command Mode:** monitor virtual : Configure monitor session for virtual switches

**Command Path:**

```
# configure [['terminal', 't']]
(config)# monitor virtual session <WORD>
(config-monitor-virtual)# source tenant <WORD> application <WORD> epg <WORD> [mac <E.E.E
EE-EE-EE-EE-EE EE:EE:EE:EE:EE:EE EEEE.EEEE.EEEE >]
```



# source application

**source application <application\_name> epg <epg\_name>**

**Description:** Configure EPG as monitor source

**Syntax:**

|                         |                                |
|-------------------------|--------------------------------|
| <i>application_name</i> | application name (Max Size 64) |
| epg                     | epg                            |
| <i>epg_name</i>         | epg name (Max Size 64)         |

**Command Mode:** monitor tenant : Configue monitor session for tenant EPGs

**Command Path:**

```
# configure [['terminal', 't']]
(config)# monitor tenant <tenant_name> session <WORD>
(config-monitor-tenant)# source application <application_name> epg <epg_name>
```

## source interface ethernet

**source interface ethernet <ethernet> leaf <leaf Id>**

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

**Syntax:**

|            |                       |
|------------|-----------------------|
| <ethernet> | List of ethernet itfs |
| leaf       | leaf                  |
| <leaf Id>  | leaf Id               |

**Command Mode:** monitor access : Configue monitor session for access interfaces

**Command Path:**

```
# configure [['terminal', 't']]
(config)# monitor access session <session_name>
(config-monitor-access)# source interface ethernet <ethernet> leaf <leaf Id>
```

**source interface ethernet <ethernet> switch <switch Id>**

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

**Syntax:**

|             |                          |
|-------------|--------------------------|
| <ethernet>  | ethernet interface range |
| switch      | switch                   |
| <switch Id> | switch Id                |

**Command Mode:** monitor fabric : Configue monitor session for fabric interfaces

**Command Path:**

```
# configure [['terminal', 't']]
(config)# monitor fabric session <session_name>
(config-monitor-fabric)# source interface ethernet <ethernet> switch <switch Id>
```

# source interface port-channel

**source interface port-channel** <port-channel list> leaf <leaf Id> [fex <fex Id>]

**Description:** Configure monitor for port-channel interfaces

**Syntax:**

|                     |                     |
|---------------------|---------------------|
| <port-channel list> | <port-channel list> |
| leaf                | leaf                |
| <leaf Id>           | leaf Id             |
| <fex Id>            | (Optional) fex Id   |

**Command Mode:** monitor access : Configure monitor session for access interfaces

**Command Path:**

```
# configure [['terminal', 't']]
(config)# monitor access session <session_name>
(config-monitor-access)# source interface port-channel <port-channel list> leaf <leaf Id>
[fex <fex Id>]
```

# source interface vpc

**source interface vpc** <vpc list> leaf <leaf Id1> <leaf Id2> [fex <fex Ids>]

**Description:** Configure monitor for VPC interfaces

**Syntax:**

|            |                           |
|------------|---------------------------|
| <vpc list> | <vpc list>                |
| leaf       | leaf                      |
| <leaf Id1> | leaf Id1                  |
| <leaf Id2> | leaf Id2                  |
| <fex Ids>  | (Optional) paired fex Ids |

**Command Mode:** monitor access : Configure monitor session for access interfaces

**Command Path:**

```
# configure [['terminal', 't']]
(config)# monitor access session <session_name>
(config-monitor-access)# source interface vpc <vpc list> leaf <leaf Id1> <leaf Id2> [fex
<fex Ids>]
```

# spanning-tree

## spanning-tree mst configuration

**Description:** STP MST configuration mode

**Syntax:**

|               |   |
|---------------|---|
| mst           | Multiple spanning tree                    |
| configuration | Configure multiple spanning tree protocol |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spanning-tree mst configuration
```

## spanning-tree

**Description:** Add spanning tree

**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)# spanning-tree
```

## spanning-tree bpd-filter|bpd-guard <enable|disable>

**Description:** Enable or Disable BPDU filter/guard

**Syntax:**

|                  |   |
|------------------|---|
| bpd-filter       | Don't send or receive BPDUs on this interface |
| bpd-guard        | Don't accept BPDUs on this interface          |
| <enable/disable> | enable/disable BPDU filter/guard              |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template policy-group <WORD>
(config-pol-grp-if)# spanning-tree bpd-filter|bpd-guard <enable|disable>
```

**spanning-tree bpdu-filter|bpdu-guard <enable|disable>****Description:** Enable BPDU filter/guard**Syntax:**

|                  |   |
|------------------|---|
| bpdu-filter      | Don't send or receive BPDUs on this interface |
| bpdu-guard       | Don't accept BPDUs on this interface          |
| <enable/disable> | enable/disable BPDU filter/guard              |

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

```
# configure [['terminal', 't']]
(config)# template port-channel <WORD>
(config-po-ch-if)# spanning-tree bpdu-filter|bpdu-guard <enable|disable>
```

**spanning-tree bpdu-filter|bpdu-guard <enable|disable>****Description:** Enable or disable BPDU filter/guard**Syntax:**

|                  |   |
|------------------|---|
| bpdu-filter      | Don't send or receive BPDUs on this interface |
| bpdu-guard       | Don't accept BPDUs on this interface          |
| <enable/disable> | enable/disable BPDU filter/guard              |

**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)# spanning-tree bpdu-filter|bpdu-guard <enable|disable>
```

**spanning-tree bpdu-filter|bpdu-guard <enable|disable>****Description:** Enable BPDU filter/guard**Syntax:**

|                  |   |
|------------------|---|
| bpdu-filter      | Don't send or receive BPDUs on this interface |
| bpdu-guard       | Don't accept BPDUs on this interface          |
| <enable/disable> | enable/disable BPDU filter/guard              |

**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)# spanning-tree bpdu-filter|bpdu-guard <enable|disable>
```

### spanning-tree bpdu-filter|bpdu-guard <enable|disable>

**Description:** Enable or disable BPDU filter/guard

**Syntax:**

|                  |   |
|------------------|---|
| bpdu-filter      | Don't send or receive BPDUs on this interface |
| bpdu-guard       | Don't accept BPDUs on this interface          |
| <enable/disable> | enable/disable BPDU filter/guard              |

**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)# spanning-tree bpdu-filter|bpdu-guard <enable|disable>
```

### spanning-tree bpdu-filter|bpdu-guard <enable|disable>

**Description:** Enable BPDU filter/guard

**Syntax:**

|                  |   |
|------------------|---|
| bpdu-filter      | Don't send or receive BPDUs on this interface |
| bpdu-guard       | Don't accept BPDUs on this interface          |
| <enable/disable> | enable/disable BPDU filter/guard              |

**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)# spanning-tree bpdu-filter|bpdu-guard <enable|disable>
```

### spanning-tree bpdu-filter|bpdu-guard <enable|disable>

**Description:** Spanning Tree Subsystem

**Syntax:**

|             |   |
|-------------|---|
| bpdu-filter | Don't send or receive BPDUs on this interface |
|-------------|---|

|                  |                                      |
|------------------|--------------------------------------|
| bpdu-guard       | Don't accept BPDUs on this interface |
| <enable/disable> | enable/disable BPDU filter/guard     |

**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)# spanning-tree bpdu-filter|bpdu-guard <enable|disable>
```



# spanning-tree bpdu-filter

## spanning-tree bpdu-filter enable|disable|default

**Description:** Configure BPDU filter override on AVS uplink ports

**Syntax:**

|         |  |
|---------|--|
| enable  | Enable BPDU filter                       |
| disable | Disable BPDU filter                      |
| default | Remove BPDU filter/guard override policy |

**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)# spanning-tree bpdu-filter enable|disable|default
```

## spanning-tree bpdu-filter enable|disable|default

**Description:** Configure BPDU filter override on AVS uplink ports

**Syntax:**

|         |  |
|---------|--|
| enable  | Enable BPDU filter                       |
| disable | Disable BPDU filter                      |
| default | Remove BPDU filter/guard override policy |

**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)# spanning-tree bpdu-filter enable|disable|default
```

## spanning-tree bpdu-guard

### spanning-tree bpdu-guard enable|disable|default

**Description:** Configure BPDU guard override on AVS uplink ports

**Syntax:**

|         |  |
|---------|--|
| enable  | Enable BPDU guard                        |
| disable | Disable BPDU guard                       |
| default | Remove BPDU filter/guard override policy |

**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)# spanning-tree bpdu-guard enable|disable|default
```

### spanning-tree bpdu-guard enable|disable|default

**Description:** Configure BPDU guard override on AVS uplink ports

**Syntax:**

|         |  |
|---------|--|
| enable  | Enable BPDU guard                        |
| disable | Disable BPDU guard                       |
| default | Remove BPDU filter/guard override policy |

**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)# spanning-tree bpdu-guard enable|disable|default
```

# speed

## speed <interfaceSpeed>

**Description:** Configure Interface Speed

**Syntax:**

|                  |                        |
|------------------|------------------------|
| <interfaceSpeed> | Interface Speed Policy |
|------------------|------------------------|

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

**Command Path:**

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

## speed <portChannelSpeed>

**Description:** Configure Interface Speed

**Syntax:**

|                    |                           |
|--------------------|---------------------------|
| <portChannelSpeed> | Port-Channel Speed Policy |
|--------------------|---------------------------|

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

**Command Path:**

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

## speed <interfaceSpeed>

**Description:** Configure Interface Speed

**Syntax:**

|                  |                        |
|------------------|------------------------|
| <interfaceSpeed> | Interface Speed Policy |
|------------------|------------------------|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template spine-interface-policy-group <WORD>
(config-spine-if-pol-grp)# speed <interfaceSpeed>
```

**speed <interfaceSpeed>****Description:** Configure Interface Speed**Syntax:**

|                               |                        |
|-------------------------------|------------------------|
| <i>&lt;interfaceSpeed&gt;</i> | Interface Speed Policy |
|-------------------------------|------------------------|

**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)# speed <interfaceSpeed>
```

**speed <speed>****Description:** Configure Interface Speed**Syntax:**

|                      |             |
|----------------------|-------------|
| <i>&lt;speed&gt;</i> | Speed Value |
|----------------------|-------------|

**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)# speed <speed>
```

**speed <interfaceSpeed>****Description:** Configure Interface Speed**Syntax:**

|                               |                        |
|-------------------------------|------------------------|
| <i>&lt;interfaceSpeed&gt;</i> | Interface Speed Policy |
|-------------------------------|------------------------|

**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)# speed <interfaceSpeed>
```

**speed <speed>****Description:** Configure Interface Speed**Syntax:**

|                      |             |
|----------------------|-------------|
| <i>&lt;speed&gt;</i> | Speed Value |
|----------------------|-------------|

**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)# speed <speed>
```

**speed <speed>**

**Description:** Configure Interface Speed

**Syntax:**

|                      |                        |
|----------------------|------------------------|
| <i>&lt;speed&gt;</i> | Interface Speed Policy |
|----------------------|------------------------|

**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)# speed <speed>
```

# spf-interval

**spf-interval level-1 <NUMBER> <50-120000> <50-120000>**

**Description:** Set the ISIS SPF maximal wait interval

**Syntax:**

|                         |   |
|-------------------------|---|
| level-1                 | Level 1   |
| <50-120000>             | SPF maximum wait interval. Number range from=50 to=120000       |
| <50-120000> <50-120000> | Initial and secondary wait intervals (both values are required) |

**Command Mode:** isis : Intermediate System to Intermediate System (IS-IS)

**Command Path:**

```
# configure [['terminal', 't']]
(config)# pod <NUMBER>
(config-pod)# isis fabric
(config-pod-isis)# spf-interval level-1 <NUMBER> <50-120000> <50-120000>
```

**spf-interval level-1 <NUMBER> <50-120000> <50-120000>**

**Description:** Set the ISIS SPF maximal wait interval

**Syntax:**

|                         |   |
|-------------------------|---|
| level-1                 | Level 1   |
| <50-120000>             | SPF maximum wait interval. Number range from=50 to=120000       |
| <50-120000> <50-120000> | Initial and secondary wait intervals (both values are required) |

**Command Mode:** template isis-fabric : InterSystem-InterSystem Protocol (IS-IS)

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template isis-fabric <WORD>
(config-template-isis-fabric)# spf-interval level-1 <NUMBER> <50-120000> <50-120000>
```

# spine-group

**spine-group <WORD>**

**Description:** Configure Spine Group

**Syntax:**

|             |                                |
|-------------|--------------------------------|
| <i>WORD</i> | Spine Group name (Max Size 64) |
|-------------|--------------------------------|

**Command Mode:** spine-profile : Configure Spine Profile

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine-profile <WORD>
(config-spine-profile)# spine-group <WORD>
```

**spine-group <WORD>**

**Description:** Configure Spine Group

**Syntax:**

|             |                                |
|-------------|--------------------------------|
| <i>WORD</i> | Spine Group name (Max Size 64) |
|-------------|--------------------------------|

**Command Mode:** spine-profile : Configure Spine Profile

**Command Path:**

```
# configure [['terminal', 't']]
(config)# fabric-internal
(config-fabric-internal)# spine-profile <WORD>
(config-spine-profile)# spine-group <WORD>
```

# spine-interface-group

## spine-interface-group <WORD>

**Description:** Configure Spine Interface Group

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Spine Interface Group name (Max Size 64) |
|-------------|--|

**Command Mode:** spine-interface-profile : Create Spine Interface Profile

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine-interface-profile <WORD>
(config-spine-if-profile)# spine-interface-group <WORD>
```

## spine-interface-group <WORD>

**Description:** Configure Spine Interface Group

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Spine Interface Group name (Max Size 64) |
|-------------|--|

**Command Mode:** spine-interface-profile : Create Spine Interface Profile

**Command Path:**

```
# configure [['terminal', 't']]
(config)# fabric-internal
(config-fabric-internal)# spine-interface-profile <WORD>
(config-spine-if-profile)# spine-interface-group <WORD>
```



# spine-interface-policy-group

## spine-interface-policy-group <WORD>

**Description:** Associate an Interface Policy Group to this Interface Group

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Spine Interface Policy Group Name (Max Size 64) |
|-------------|---|

**Command Mode:** spine-interface-group : Configure Spine Interface Group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine-interface-profile <WORD>
(config-spine-if-profile)# spine-interface-group <WORD>
(config-spine-if-group)# spine-interface-policy-group <WORD>
```

## spine-interface-policy-group <WORD>

**Description:** Associate an Interface Policy Group to this Interface Group

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Spine Interface Policy Group Name (Max Size 64) |
|-------------|---|

**Command Mode:** spine-interface-group : Configure Spine Interface Group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# fabric-internal
(config-fabric-internal)# spine-interface-profile <WORD>
(config-spine-if-profile)# spine-interface-group <WORD>
(config-spine-if-group)# spine-interface-policy-group <WORD>
```

## spine-interface-policy-group <WORD> [force]

**Description:** Configure Spine Interface Policy Group

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Spine Interface Policy Group Name (Max Size 64)  |
| force       | (Optional) Delete Per Port Configuration and apply spine-interface-policy-group config |

**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)# spine-interface-policy-group <WORD> [force]
```

### spine-interface-policy-group <WORD> [force]

**Description:** Configure Spine Interface Policy Group

#### Syntax:

|             |  |
|-------------|--|
| <i>WORD</i> | Spine Interface Policy Group Name (Max Size 64)  |
| force       | (Optional) Delete Per Port Configuration and apply spine-interface-policy-group config |

**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)# spine-interface-policy-group <WORD> [force]
```

# spine-interface-profile

## spine-interface-profile <WORD>

**Description:** Attach Spine Interface Profile to the Spine Profile

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Spine Interface Profile name (Max Size 64) |
|-------------|--|

**Command Mode:** spine-profile : Configure Spine Profile

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine-profile <WORD>
(config-spine-profile)# spine-interface-profile <WORD>
```

## spine-interface-profile <WORD>

**Description:** Create Spine Interface Profile

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Spine Interface Profile name (Max Size 64) |
|-------------|--|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine-interface-profile <WORD>
```

## spine-interface-profile <WORD>

**Description:** Create Spine Interface Profile

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Spine Interface Profile name (Max Size 64) |
|-------------|--|

**Command Mode:** fabric-internal : Fabric Policy Configuration for internal ports

**Command Path:**

```
# configure [['terminal', 't']]
(config)# fabric-internal
(config-fabric-internal)# spine-interface-profile <WORD>
```

## spine-interface-profile <WORD>

**Description:** Attach Spine Interface Profile to the Spine Profile

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Spine Interface Profile name (Max Size 64) |
|-------------|--|

**Command Mode:** spine-profile : Configure Spine Profile

**Command Path:**

```
# configure [['terminal', 't']]
(config)# fabric-internal
(config-fabric-internal)# spine-profile <WORD>
(config-spine-profile)# spine-interface-profile <WORD>
```

# spine-policy-group

## spine-policy-group <WORD>

**Description:** Configure spine policy group

**Syntax:**

|             |                                 |
|-------------|---------------------------------|
| <i>WORD</i> | spine policy name (Max Size 64) |
|-------------|---------------------------------|

**Command Mode:** spine-group : Configure Spine Group

**Command Path:**

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

## spine-policy-group <WORD>

**Description:** Configure spine policy group

**Syntax:**

|             |                                 |
|-------------|---------------------------------|
| <i>WORD</i> | spine policy name (Max Size 64) |
|-------------|---------------------------------|

**Command Mode:** spine-group : Configure Spine Group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# fabric-internal
(config-fabric-internal)# spine-profile <WORD>
(config-spine-profile)# spine-group <WORD>
(config-spine-group)# spine-policy-group <WORD>
```

# spine-profile

## spine-profile <WORD>

**Description:** Configure Spine Profile

**Syntax:**

|             |                                  |
|-------------|----------------------------------|
| <i>WORD</i> | Spine Profile name (Max Size 64) |
|-------------|----------------------------------|

**Command Mode:** configure : Configuration Mode

**Command Path:**

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

## spine-profile <WORD>

**Description:** Configure Spine Profile

**Syntax:**

|             |                                  |
|-------------|----------------------------------|
| <i>WORD</i> | Spine Profile name (Max Size 64) |
|-------------|----------------------------------|

**Command Mode:** fabric-internal : Fabric Policy Configuration for internal ports

**Command Path:**

```
# configure [['terminal', 't']]
(config)# fabric-internal
(config-fabric-internal)# spine-profile <WORD>
```

# spine

## spine <101-4000>

**Description:** Provide a Range of Nodes

**Syntax:**

|            |                                |
|------------|--------------------------------|
| <101-4000> | Spine Range or Spine Name List |
|------------|--------------------------------|

**Command Mode:** spine-group : Configure Spine Group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine-profile <WORD>
(config-spine-profile)# spine-group <WORD>
(config-spine-group)# spine <101-4000>
```

## spine <101-4000>

**Description:** Provide a Range of Nodes

**Syntax:**

|            |                                |
|------------|--------------------------------|
| <101-4000> | Spine Range or Spine Name List |
|------------|--------------------------------|

**Command Mode:** spine-group : Configure Spine Group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# fabric-internal
(config-fabric-internal)# spine-profile <WORD>
(config-spine-profile)# spine-group <WORD>
(config-spine-group)# spine <101-4000>
```

## spine <101-4000>

**Description:** Configure Spine Node

**Syntax:**

|            |                                |
|------------|--------------------------------|
| <101-4000> | Spine Range or Spine Name List |
|------------|--------------------------------|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
```

# ssh-ciphers

**ssh-ciphers** <sshCiphers>

**Description:** Set the SSH ciphers (comma separated values)

**Syntax:**

|                   |   |
|-------------------|---|
| <i>sshCiphers</i> | SSH Ciphers as comma separated values like val1,val2,..valN |
|-------------------|---|

**Command Mode:** ssh-service : SSH communication policy group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# comm-policy <WORD>
(config-comm-policy)# ssh-service
(config-ssh-service)# ssh-ciphers <sshCiphers>
```



# ssh-key

**ssh-key <WORD>**

**Description:** Update ssh key for the user for ssh authentication

**Syntax:**

|             |                                  |
|-------------|----------------------------------|
| <i>WORD</i> | A name for SSH key (Max Size 64) |
|-------------|----------------------------------|

**Command Mode:** username : Create a locally-authenticated user account

**Command Path:**

```
# configure [['terminal', 't']]
(config)# username <WORD>
(config-username)# ssh-key <WORD>
```

# ssh-macs

**ssh-macs <sshMacs>**

**Description:** Set the SSH macs (comma separated values)

**Syntax:**

|                |  |
|----------------|--|
| <i>sshMacs</i> | SSH Macs as comma separated values like val1,val2,..valN |
|----------------|--|

**Command Mode:** ssh-service : SSH communication policy group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# comm-policy <WORD>
(config-comm-policy)# ssh-service
(config-ssh-service)# ssh-macs <sshMacs>
```

# ssh-service

## ssh-service

**Description:** SSH communication policy group

**Command Mode:** comm-policy : Configure any communication policy, ssh/telnet/shellinabox/http/https

**Command Path:**

```
# configure [['terminal', 't']]
(config)# comm-policy <WORD>
(config-comm-policy)# ssh-service
```

# ssl-protocols

**ssl-protocols <sslProtocols>**

**Description:** Set the SSL protocol (comma separated values)

**Syntax:**

|                     |   |
|---------------------|---|
| <i>sslProtocols</i> | SSL Protocols as comma separated values like val1,val2,..valN |
|---------------------|---|

**Command Mode:** https : HTTPS communication policy group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# comm-policy <WORD>
(config-comm-policy)# https
(config-https)# ssl-protocols <sslProtocols>
```

# ssl-validation-level

**ssl-validation-level** <ssl-validation-level>

**Description:** Set the LDAP Server SSL Certificate validation level

**Syntax:**

|                        |                        |
|------------------------|------------------------|
| <ssl-validation-level> | <ssl-validation-level> |
|------------------------|------------------------|

**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)# ssl-validation-level <ssl-validation-level>
```

# state

## state <WORD>

**Description:** Set The state or province in which the organization is located.

### Syntax:

|        |                                 |
|--------|---------------------------------|
| <WORD> | state or province (Max Size 64) |
|--------|---------------------------------|

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

### Command Path:

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

## state <cipherState>

**Description:** Cipher state

### Syntax:

|                    |  |
|--------------------|--|
| <i>cipherState</i> | Cipher state as comma separated values like val1,val2,..valN |
|--------------------|--|

**Command Mode:** ciphers : HTTPS cipher suite

### Command Path:

```
# configure [['terminal', 't']]
(config)# comm-policy <WORD>
(config-comm-policy)# https
(config-https)# ciphers <WORD>
(config-ciphers)# state <cipherState>
```

# static-endpoint

**static-endpoint mac** *E.E.E*[*EE-EE-EE-EE-EE-EE*][*EE:EE:EE:EE:EE:EE*][*EEEE.EEEE.EEEE*] **vlan** <NUMBER> [**ip** <*A1.B1.C1.D1*,...,*An.Bn.Cn.Dn*>] [**ipv6** <*A1:B1::C1:D1*,...,*An:Bn::Cn:Dn*>]

**Description:** Configure Silent Host behind an EPG with a Static Path Attachment

## Syntax:

|   |   |
|---|---|
| mac   | MAC address   |
| <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)  |
| vlan  | Encapsulation Vlan  |
| < <i>1-4094</i> >                             | Encapsulation Vlan. Number range from=1 to=4094               |
| <i>A1.B1.C1.D1</i> ,..., <i>An.Bn.Cn.Dn</i>   | (Optional) List of IP addresses in format i.i.i.i             |
| <i>A1:B1::C1:D1</i> ,..., <i>An:Bn::Cn:Dn</i> | (Optional) List of IPv6 address in format xxxx:xxxx, xxxx::xx |

**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)# static-endpoint mac E.E.E[EE-EE-EE-EE-EE-EE][EE:EE:EE:EE:EE:EE][EEEE.EEEE.EEEE]
vlan <NUMBER> [ip <A1.B1.C1.D1,...,An.Bn.Cn.Dn>] [ipv6 <A1:B1::C1:D1,...,An:Bn::Cn:Dn>]
```

**static-endpoint mac** *E.E.E*[*EE-EE-EE-EE-EE-EE*][*EE:EE:EE:EE:EE:EE*][*EEEE.EEEE.EEEE*] **vlan** <NUMBER> [**ip** <*A1.B1.C1.D1*,...,*An.Bn.Cn.Dn*>] [**ipv6** <*A1:B1::C1:D1*,...,*An:Bn::Cn:Dn*>]

**Description:** Configure silent Host behind an EPG with a Static Path Attachment

## Syntax:

|                          |                        |
|--------------------------|------------------------|
| mac                      | MAC address            |
| <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) |

|                                      |   |
|--------------------------------------|---|
| vlan                                 | Encapsulation Vlan  |
| <1-4094>                             | Encapsulation Vlan. Number range from=1 to=4094               |
| <i>A1.B1.C1.D1,...,An.Bn.Cn.Dn</i>   | (Optional) List of IP addresses in format i.i.i.i             |
| <i>A1:B1::C1:D1,...,An:Bn::Cn:Dn</i> | (Optional) List of IPv6 address in format xxxx:xxxx, xxxx::xx |

**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)# static-endpoint mac E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE
vlan <NUMBER> [ip <A1.B1.C1.D1,...,An.Bn.Cn.Dn>] [ipv6 <A1:B1::C1:D1,...,An:Bn::Cn:Dn>]
```

**static-endpoint mac E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE vlan <NUMBER> [ip <A1.B1.C1.D1,...,An.Bn.Cn.Dn>] [ipv6 <A1:B1::C1:D1,...,An:Bn::Cn:Dn>]**

**Description:** Configure Silent Host behind an EPG with a Static Path Attachment

**Syntax:**

|                                      |   |
|--------------------------------------|---|
| mac                                  | MAC address   |
| <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)  |
| vlan                                 | Encapsulation Vlan  |
| <1-4094>                             | Encapsulation Vlan. Number range from=1 to=4094               |
| <i>A1.B1.C1.D1,...,An.Bn.Cn.Dn</i>   | (Optional) List of IP addresses in format i.i.i.i             |
| <i>A1:B1::C1:D1,...,An:Bn::Cn:Dn</i> | (Optional) List of IPv6 address in format xxxx:xxxx, xxxx::xx |

**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)# static-endpoint mac E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE
vlan <NUMBER> [ip <A1.B1.C1.D1,...,An.Bn.Cn.Dn>] [ipv6 <A1:B1::C1:D1,...,An:Bn::Cn:Dn>]
```



**static-endpoint mac** *E.E.E*|*EE-EE-EE-EE-EE-EE*|*EE:EE:EE:EE:EE:EE*|*EEEE.EEEE.EEEE* **vlan** <NUMBER> [**ip** <*A1.B1.C1.D1*,...,*An.Bn.Cn.Dn*>] [**ipv6** <*A1:B1::C1:D1*,...,*An:Bn::Cn:Dn*>]

**Description:** Configure silent Host behind an EPG with a Static Path Attachment

**Syntax:**

|   |  |
|---|--|
| mac   | MAC address  |
| <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)                                       |
| vlan  | Encapsulation Vlan   |
| < <i>1-4094</i> >                             | Encapsulation Vlan. Number range from=1 to=4094              |
| <i>A1.B1.C1.D1</i> ,..., <i>An.Bn.Cn.Dn</i>   | (Optional) List of IP addresses in format i.i.i.i            |
| <i>A1:B1::C1:D1</i> ,..., <i>An:Bn::Cn:Dn</i> | (Optional) List of IPv6 address in format xxxx:xxxx, xxxx:xx |

**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)# static-endpoint mac E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE
vlan <NUMBER> [ip <A1.B1.C1.D1, ..., An.Bn.Cn.Dn>] [ipv6 <A1:B1::C1:D1, ..., An:Bn::Cn:Dn>]
```

**static-endpoint mac** *E.E.E*|*EE-EE-EE-EE-EE-EE*|*EE:EE:EE:EE:EE:EE*|*EEEE.EEEE.EEEE* **vlan** <NUMBER> [**ip** <*A1.B1.C1.D1*,...,*An.Bn.Cn.Dn*>] [**ipv6** <*A1:B1::C1:D1*,...,*An:Bn::Cn:Dn*>]

**Description:** Configure silent Host behind a EPG with a Static Path Attachment

**Syntax:**

|   |   |
|---|---|
| mac   | MAC address                                       |
| <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)                            |
| vlan  | Encapsulation Vlan                                |
| < <i>1-4094</i> >                           | Encapsulation Vlan. Number range from=1 to=4094   |
| <i>A1.B1.C1.D1</i> ,..., <i>An.Bn.Cn.Dn</i> | (Optional) List of IP addresses in format i.i.i.i |

|                                      |   |
|--------------------------------------|---|
| <i>A1:B1::C1:D1,...,An:Bn::Cn:Dn</i> | (Optional) List of IPv6 address in format xxxx:xxxx, xxxx::xx |
|--------------------------------------|---|

**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)# static-endpoint mac E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE
vlan <NUMBER> [ip <A1.B1.C1.D1,...,An.Bn.Cn.Dn>] [ipv6 <A1:B1::C1:D1,...,An:Bn::Cn:Dn>]
```

# static-tep

**static-tep mac** *E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE* vlan <NUMBER> <A.B.C.D>

**Description:** Configure a static Tunnel Endpoint behind an EPG with a Static Path Attachment

**Syntax:**

|                          |   |
|--------------------------|---|
| mac                      | MAC address                             |
| <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)                  |
| vlan                     | Encapsulation Vlan                      |
| <1-4094>                 | VLAN range. Number range from=1 to=4094 |
| <i>A.B.C.D</i>           | IP address in format i.i.i.i            |

**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)# static-tep mac E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE
vlan <NUMBER> <A.B.C.D>
```

**static-tep mac** *E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE* vlan <NUMBER> <A.B.C.D>

**Description:** Configure a static Tunnel Endpoint behind an EPG with a Static Path Attachment

**Syntax:**

|                          |   |
|--------------------------|---|
| mac                      | MAC address                             |
| <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)                  |
| vlan                     | Encapsulation Vlan                      |
| <1-4094>                 | VLAN range. Number range from=1 to=4094 |

|                |                              |
|----------------|------------------------------|
| <i>A.B.C.D</i> | IP address in format i.i.i.i |
|----------------|------------------------------|

**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)# static-tep mac E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE
vlan <NUMBER> <A.B.C.D>
```

**static-tep mac E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE vlan <NUMBER> <A.B.C.D>**

**Description:** Configure a static Tunnel Endpoint behind an EPG with a Static Path Attachment

**Syntax:**

|                          |   |
|--------------------------|---|
| mac                      | MAC address                             |
| <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)                  |
| vlan                     | Encapsulation Vlan                      |
| <i>&lt;1-4094&gt;</i>    | VLAN range. Number range from=1 to=4094 |
| <i>A.B.C.D</i>           | IP address in format i.i.i.i            |

**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)# static-tep mac E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE
vlan <NUMBER> <A.B.C.D>
```

**static-tep mac E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE vlan <NUMBER> <A.B.C.D>**

**Description:** Configure a static Tunnel Endpoint behind an EPG with a Static Path Attachment

**Syntax:**

|                          |                        |
|--------------------------|------------------------|
| mac                      | MAC address            |
| <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)                  |
| vlan                     | Encapsulation Vlan                      |
| <1-4094>                 | VLAN range. Number range from=1 to=4094 |
| <i>A.B.C.D</i>           | IP address in format i.i.i.i            |

**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)# static-tep mac E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE
vlan <NUMBER> <A.B.C.D>
```

**static-tep mac E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE vlan <NUMBER> <A.B.C.D>**

**Description:** Configure a static Tunnel Endpoint behind a EPG with a Static Path Attachment

**Syntax:**

|                          |   |
|--------------------------|---|
| mac                      | MAC address                             |
| <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)                  |
| vlan                     | Encapsulation Vlan                      |
| <1-4094>                 | VLAN range. Number range from=1 to=4094 |
| <i>A.B.C.D</i>           | IP address in format i.i.i.i            |

**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)# static-tep mac E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE
vlan <NUMBER> <A.B.C.D>
```

# statistics

## statistics enable

**Description:** Enable/disable stats collection on vCenter

**Syntax:**

|        |        |
|--------|--------|
| enable | enable |
|--------|--------|

**Command Mode:** vcenter : Configure a vCenter in the VMware domain

**Command Path:**

```
# configure [['terminal', 't']]
(config)# vmware-domain <WORD> [delimiter <WORD>] [access-mode <access-mode>]
(config-vmware)# vcenter <> datacenter <WORD> [dvs-version <>]
(config-vmware-vc)# statistics enable
```

# stoprekey

**stoprekey** <yes|no>

**Description:** Control to stop Rekeying

**Syntax:**

|          |                         |
|----------|-------------------------|
| <yes/no> | disable enable rekeying |
|----------|-------------------------|

**Command Mode:** template cloudsec : Configure cloudsec Policies

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template cloudsec <WORD>
(config-cloudsec)# stoprekey <yes|no>
```

## storm-control broadcast level

**storm-control broadcast level <0-100> [burst-rate <0-100>]**

**Description:** Configure Storm Control Level (bandwidth percentage) for broadcast

**Syntax:**

|         |  |
|---------|--|
| <0-100> | Rate of Bandwidth in Percentage                |
| <0-100> | (Optional) Max Rate of Bandwidth in Percentage |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template policy-group <WORD>
(config-pol-grp-if)# storm-control broadcast level <0-100> [burst-rate <0-100>]
```

**storm-control broadcast level <0-100> [burst-rate <0-100>]**

**Description:** Configure Storm Control Level (bandwidth percentage) for broadcast

**Syntax:**

|         |  |
|---------|--|
| <0-100> | Rate of Bandwidth in Percentage                |
| <0-100> | (Optional) Max Rate of Bandwidth in Percentage |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template port-channel <WORD>
(config-po-ch-if)# storm-control broadcast level <0-100> [burst-rate <0-100>]
```

**storm-control broadcast level <0-100> [burst-rate <0-100>]**

**Description:** Configure Storm Control Level (bandwidth percentage) for broadcast

**Syntax:**

|         |  |
|---------|--|
| <0-100> | Rate of Bandwidth in Percentage                |
| <0-100> | (Optional) Max Rate of Bandwidth in Percentage |

**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)# storm-control broadcast level <0-100> [burst-rate <0-100>]
```

### storm-control broadcast level <0-100> [burst-rate <0-100>]

**Description:** Configure Storm Control Level (bandwidth percentage) for broadcast

**Syntax:**

|         |  |
|---------|--|
| <0-100> | Rate of Bandwidth in Percentage                |
| <0-100> | (Optional) Max Rate of Bandwidth in Percentage |

**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)# storm-control broadcast level <0-100> [burst-rate <0-100>]
```

### storm-control broadcast level <0-100> [burst-rate <0-100>]

**Description:** Configure Storm Control Level (bandwidth percentage) for broadcast

**Syntax:**

|         |  |
|---------|--|
| <0-100> | Rate of Bandwidth in Percentage                |
| <0-100> | (Optional) Max Rate of Bandwidth in Percentage |

**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)# storm-control broadcast level <0-100> [burst-rate <0-100>]
```

### storm-control broadcast level <0-100> [burst-rate <0-100>]

**Description:** Configure Storm Control Level (bandwidth percentage) for broadcast

**Syntax:**

|         |  |
|---------|--|
| <0-100> | Rate of Bandwidth in Percentage                |
| <0-100> | (Optional) Max Rate of Bandwidth in Percentage |

**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)# storm-control broadcast level <0-100> [burst-rate <0-100>]
```

### storm-control broadcast level <0-100> [burst-rate <0-100>]

**Description:** Configure Storm Control Level (bandwidth percentage) for broadcast

#### Syntax:

|         |  |
|---------|--|
| <0-100> | Rate of Bandwidth in Percentage                |
| <0-100> | (Optional) Max Rate of Bandwidth in Percentage |

**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)# storm-control broadcast level <0-100> [burst-rate <0-100>]
```

# storm-control broadcast pps

**storm-control broadcast pps <arg> burst-rate <arg>**

**Description:** Configure Storm Control in packet per second for broadcast

**Syntax:**

|            |  |
|------------|--|
| <i>arg</i> | Burst Rate in packets per second. Number range from=0 to=4882812     |
| burst-rate | Max Burst Rate in packets per second                                 |
| <i>arg</i> | Max Burst Rate in packets per second. Number range from=0 to=4882812 |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template policy-group <WORD>
(config-pol-grp-if)# storm-control broadcast pps <> burst-rate <>
```

**storm-control broadcast pps <arg> burst-rate <arg>**

**Description:** Configure Storm Control in packet per second for broadcast

**Syntax:**

|            |  |
|------------|--|
| <i>arg</i> | Burst Rate in packets per second. Number range from=0 to=4882812     |
| burst-rate | Max Burst Rate in packets per second                                 |
| <i>arg</i> | Max Burst Rate in packets per second. Number range from=0 to=4882812 |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template port-channel <WORD>
(config-po-ch-if)# storm-control broadcast pps <> burst-rate <>
```

**storm-control broadcast pps <arg> burst-rate <arg>**

**Description:** Configure Storm Control in packet per second for broadcast

**Syntax:**

|            |  |
|------------|--|
| <i>arg</i> | Burst Rate in packets per second. Number range from=0 to=4882812 |
| burst-rate | Max Burst Rate in packets per second                             |

|            |  |
|------------|--|
| <i>arg</i> | Max Burst Rate in packets per second. Number range from=0 to=4882812 |
|------------|--|

**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)# storm-control broadcast pps <> burst-rate <>
```

**storm-control broadcast pps <arg> burst-rate <arg>**

**Description:** Configure Storm Control in packet per second for broadcast

**Syntax:**

|            |  |
|------------|--|
| <i>arg</i> | Burst Rate in packets per second. Number range from=0 to=4882812     |
| burst-rate | Max Burst Rate in packets per second                                 |
| <i>arg</i> | Max Burst Rate in packets per second. Number range from=0 to=4882812 |

**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)# storm-control broadcast pps <> burst-rate <>
```

**storm-control broadcast pps <arg> burst-rate <arg>**

**Description:** Configure Storm Control in packet per second for broadcast

**Syntax:**

|            |  |
|------------|--|
| <i>arg</i> | Burst Rate in packets per second. Number range from=0 to=4882812     |
| burst-rate | Max Burst Rate in packets per second                                 |
| <i>arg</i> | Max Burst Rate in packets per second. Number range from=0 to=4882812 |

**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)# storm-control broadcast pps <> burst-rate <>
```

### storm-control broadcast pps <arg> burst-rate <arg>

**Description:** Configure Storm Control in packet per second for broadcast

**Syntax:**

|            |  |
|------------|--|
| <i>arg</i> | Burst Rate in packets per second. Number range from=0 to=4882812     |
| burst-rate | Max Burst Rate in packets per second                                 |
| <i>arg</i> | Max Burst Rate in packets per second. Number range from=0 to=4882812 |

**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)# storm-control broadcast pps <> burst-rate <>
```

### storm-control broadcast pps <arg> burst-rate <arg>

**Description:** Configure Storm Control in packet per second for broadcast

**Syntax:**

|            |  |
|------------|--|
| <i>arg</i> | Burst Rate in packets per second. Number range from=0 to=4882812     |
| burst-rate | Max Burst Rate in packets per second                                 |
| <i>arg</i> | Max Burst Rate in packets per second. Number range from=0 to=4882812 |

**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)# storm-control broadcast pps <> burst-rate <>
```

## storm-control level

**storm-control level <0-100> [burst-rate <0-100>]**

**Description:** Configure Storm Control Level (bandwidth percentage) for all packet types

**Syntax:**

|         |  |
|---------|--|
| <0-100> | Rate of Bandwidth in Percentage                |
| <0-100> | (Optional) Max Rate of Bandwidth in Percentage |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template policy-group <WORD>
(config-pol-grp-if)# storm-control level <0-100> [burst-rate <0-100>]
```

**storm-control level <0-100> [burst-rate <0-100>]**

**Description:** Configure Storm Control Level (bandwidth percentage) for all packet types

**Syntax:**

|         |  |
|---------|--|
| <0-100> | Rate of Bandwidth in Percentage                |
| <0-100> | (Optional) Max Rate of Bandwidth in Percentage |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template port-channel <WORD>
(config-po-ch-if)# storm-control level <0-100> [burst-rate <0-100>]
```

**storm-control level <0-100> [burst-rate <0-100>]**

**Description:** Configure Storm Control Level (bandwidth percentage) for all packet types

**Syntax:**

|         |  |
|---------|--|
| <0-100> | Rate of Bandwidth in Percentage                |
| <0-100> | (Optional) Max Rate of Bandwidth in Percentage |

**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)# storm-control level <0-100> [burst-rate <0-100>]
```

**storm-control level <0-100> [burst-rate <0-100>]****Description:** Configure Storm Control Level (bandwidth percentage) for all packet types**Syntax:**

|         |  |
|---------|--|
| <0-100> | Rate of Bandwidth in Percentage                |
| <0-100> | (Optional) Max Rate of Bandwidth in Percentage |

**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)# storm-control level <0-100> [burst-rate <0-100>]
```

**storm-control level <0-100> [burst-rate <0-100>]****Description:** Configure Storm Control Level (bandwidth percentage) for all packet types**Syntax:**

|         |  |
|---------|--|
| <0-100> | Rate of Bandwidth in Percentage                |
| <0-100> | (Optional) Max Rate of Bandwidth in Percentage |

**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)# storm-control level <0-100> [burst-rate <0-100>]
```

**storm-control level <0-100> [burst-rate <0-100>]****Description:** Configure Storm Control Level (bandwidth percentage) for all packet types**Syntax:**

|         |  |
|---------|--|
| <0-100> | Rate of Bandwidth in Percentage                |
| <0-100> | (Optional) Max Rate of Bandwidth in Percentage |

**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)# storm-control level <0-100> [burst-rate <0-100>]
```

### storm-control level <0-100> [burst-rate <0-100>]

**Description:** Configure Storm Control Level (bandwidth percentage) for all packet types

#### Syntax:

|         |  |
|---------|--|
| <0-100> | Rate of Bandwidth in Percentage                |
| <0-100> | (Optional) Max Rate of Bandwidth in Percentage |

**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)# storm-control level <0-100> [burst-rate <0-100>]
```



# storm-control multicast level

**storm-control multicast level <0-100> [burst-rate <0-100>]**

**Description:** Configure Storm Control Level (bandwidth percentage) for multicast

**Syntax:**

|         |  |
|---------|--|
| <0-100> | Rate of Bandwidth in Percentage                |
| <0-100> | (Optional) Max Rate of Bandwidth in Percentage |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template policy-group <WORD>
(config-pol-grp-if)# storm-control multicast level <0-100> [burst-rate <0-100>]
```

**storm-control multicast level <0-100> [burst-rate <0-100>]**

**Description:** Configure Storm Control Level (bandwidth percentage) for multicast

**Syntax:**

|         |  |
|---------|--|
| <0-100> | Rate of Bandwidth in Percentage                |
| <0-100> | (Optional) Max Rate of Bandwidth in Percentage |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template port-channel <WORD>
(config-po-ch-if)# storm-control multicast level <0-100> [burst-rate <0-100>]
```

**storm-control multicast level <0-100> [burst-rate <0-100>]**

**Description:** Configure Storm Control Level (bandwidth percentage) for multicast

**Syntax:**

|         |  |
|---------|--|
| <0-100> | Rate of Bandwidth in Percentage                |
| <0-100> | (Optional) Max Rate of Bandwidth in Percentage |

**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)# storm-control multicast level <0-100> [burst-rate <0-100>]
```

**storm-control multicast level <0-100> [burst-rate <0-100>]****Description:** Configure Storm Control Level (bandwidth percentage) for multicast**Syntax:**

|         |  |
|---------|--|
| <0-100> | Rate of Bandwidth in Percentage                |
| <0-100> | (Optional) Max Rate of Bandwidth in Percentage |

**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)# storm-control multicast level <0-100> [burst-rate <0-100>]
```

**storm-control multicast level <0-100> [burst-rate <0-100>]****Description:** Configure Storm Control Level (bandwidth percentage) for multicast**Syntax:**

|         |  |
|---------|--|
| <0-100> | Rate of Bandwidth in Percentage                |
| <0-100> | (Optional) Max Rate of Bandwidth in Percentage |

**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)# storm-control multicast level <0-100> [burst-rate <0-100>]
```

**storm-control multicast level <0-100> [burst-rate <0-100>]****Description:** Configure Storm Control Level (bandwidth percentage) for multicast**Syntax:**

|         |  |
|---------|--|
| <0-100> | Rate of Bandwidth in Percentage                |
| <0-100> | (Optional) Max Rate of Bandwidth in Percentage |

**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)# storm-control multicast level <0-100> [burst-rate <0-100>]
```

### storm-control multicast level <0-100> [burst-rate <0-100>]

**Description:** Configure Storm Control Level (bandwidth percentage) for multicast

#### Syntax:

|         |  |
|---------|--|
| <0-100> | Rate of Bandwidth in Percentage                |
| <0-100> | (Optional) Max Rate of Bandwidth in Percentage |

**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)# storm-control multicast level <0-100> [burst-rate <0-100>]
```

## storm-control multicast pps

**storm-control multicast pps <arg> burst-rate <arg>**

**Description:** Configure Storm Control in packet per second for multicast

**Syntax:**

|            |  |
|------------|--|
| <i>arg</i> | Burst Rate in packets per second. Number range from=0 to=4882812     |
| burst-rate | Max Burst Rate in packets per second                                 |
| <i>arg</i> | Max Burst Rate in packets per second. Number range from=0 to=4882812 |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template policy-group <WORD>
(config-pol-grp-if)# storm-control multicast pps <> burst-rate <>
```

**storm-control multicast pps <arg> burst-rate <arg>**

**Description:** Configure Storm Control in packet per second for multicast

**Syntax:**

|            |  |
|------------|--|
| <i>arg</i> | Burst Rate in packets per second. Number range from=0 to=4882812     |
| burst-rate | Max Burst Rate in packets per second                                 |
| <i>arg</i> | Max Burst Rate in packets per second. Number range from=0 to=4882812 |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template port-channel <WORD>
(config-po-ch-if)# storm-control multicast pps <> burst-rate <>
```

**storm-control multicast pps <arg> burst-rate <arg>**

**Description:** Configure Storm Control in packet per second for multicast

**Syntax:**

|            |  |
|------------|--|
| <i>arg</i> | Burst Rate in packets per second. Number range from=0 to=4882812 |
| burst-rate | Max Burst Rate in packets per second                             |

|            |  |
|------------|--|
| <i>arg</i> | Max Burst Rate in packets per second. Number range from=0 to=4882812 |
|------------|--|

**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)# storm-control multicast pps <> burst-rate <>
```

**storm-control multicast pps <arg> burst-rate <arg>**

**Description:** Configure Storm Control in packet per second for multicast

**Syntax:**

|            |  |
|------------|--|
| <i>arg</i> | Burst Rate in packets per second. Number range from=0 to=4882812     |
| burst-rate | Max Burst Rate in packets per second                                 |
| <i>arg</i> | Max Burst Rate in packets per second. Number range from=0 to=4882812 |

**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)# storm-control multicast pps <> burst-rate <>
```

**storm-control multicast pps <arg> burst-rate <arg>**

**Description:** Configure Storm Control in packet per second for multicast

**Syntax:**

|            |  |
|------------|--|
| <i>arg</i> | Burst Rate in packets per second. Number range from=0 to=4882812     |
| burst-rate | Max Burst Rate in packets per second                                 |
| <i>arg</i> | Max Burst Rate in packets per second. Number range from=0 to=4882812 |

**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)# storm-control multicast pps <> burst-rate <>
```

### storm-control multicast pps <arg> burst-rate <arg>

**Description:** Configure Storm Control in packet per second for multicast

**Syntax:**

|            |  |
|------------|--|
| <i>arg</i> | Burst Rate in packets per second. Number range from=0 to=4882812     |
| burst-rate | Max Burst Rate in packets per second                                 |
| <i>arg</i> | Max Burst Rate in packets per second. Number range from=0 to=4882812 |

**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)# storm-control multicast pps <> burst-rate <>
```

### storm-control multicast pps <arg> burst-rate <arg>

**Description:** Configure Storm Control in packet per second for multicast

**Syntax:**

|            |  |
|------------|--|
| <i>arg</i> | Burst Rate in packets per second. Number range from=0 to=4882812     |
| burst-rate | Max Burst Rate in packets per second                                 |
| <i>arg</i> | Max Burst Rate in packets per second. Number range from=0 to=4882812 |

**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)# storm-control multicast pps <> burst-rate <>
```

# storm-control pps

## storm-control pps <arg> burst-rate <arg>

**Description:** Configure Storm Control in packet per second for all packet types

**Syntax:**

|            |  |
|------------|--|
| <i>arg</i> | Burst Rate in packets per second. Number range from=0 to=4882812     |
| burst-rate | Max Burst Rate in packets per second                                 |
| <i>arg</i> | Max Burst Rate in packets per second. Number range from=0 to=4882812 |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template policy-group <WORD>
(config-pol-grp-if)# storm-control pps <> burst-rate <>
```

## storm-control pps <arg> burst-rate <arg>

**Description:** Configure Storm Control in packet per second for all packet type

**Syntax:**

|            |  |
|------------|--|
| <i>arg</i> | Burst Rate in packets per second. Number range from=0 to=4882812     |
| burst-rate | Max Burst Rate in packets per second                                 |
| <i>arg</i> | Max Burst Rate in packets per second. Number range from=0 to=4882812 |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template port-channel <WORD>
(config-po-ch-if)# storm-control pps <> burst-rate <>
```

## storm-control pps <arg> burst-rate <arg>

**Description:** Configure Storm Control in packet per second for all packet types

**Syntax:**

|            |  |
|------------|--|
| <i>arg</i> | Burst Rate in packets per second. Number range from=0 to=4882812 |
| burst-rate | Max Burst Rate in packets per second                             |

|            |  |
|------------|--|
| <i>arg</i> | Max Burst Rate in packets per second. Number range from=0 to=4882812 |
|------------|--|

**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)# storm-control pps <> burst-rate <>
```

**storm-control pps <arg> burst-rate <arg>**

**Description:** Configure Storm Control in packet per second for all packet types

**Syntax:**

|            |  |
|------------|--|
| <i>arg</i> | Burst Rate in packets per second. Number range from=0 to=4882812     |
| burst-rate | Max Burst Rate in packets per second                                 |
| <i>arg</i> | Max Burst Rate in packets per second. Number range from=0 to=4882812 |

**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)# storm-control pps <> burst-rate <>
```

**storm-control pps <arg> burst-rate <arg>**

**Description:** Configure Storm Control in packet per second for all packet types

**Syntax:**

|            |  |
|------------|--|
| <i>arg</i> | Burst Rate in packets per second. Number range from=0 to=4882812     |
| burst-rate | Max Burst Rate in packets per second                                 |
| <i>arg</i> | Max Burst Rate in packets per second. Number range from=0 to=4882812 |

**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)# storm-control pps <> burst-rate <>
```

### storm-control pps <arg> burst-rate <arg>

**Description:** Configure Storm Control in packet per second for all packet types

**Syntax:**

|            |  |
|------------|--|
| <i>arg</i> | Burst Rate in packets per second. Number range from=0 to=4882812     |
| burst-rate | Max Burst Rate in packets per second                                 |
| <i>arg</i> | Max Burst Rate in packets per second. Number range from=0 to=4882812 |

**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)# storm-control pps <> burst-rate <>
```

### storm-control pps <arg> burst-rate <arg>

**Description:** Configure Storm Control in packet per second for all packets type

**Syntax:**

|            |  |
|------------|--|
| <i>arg</i> | Rate in packets per second. Number range from=0 to=4882812           |
| burst-rate | Max Burst Rate in packets per second                                 |
| <i>arg</i> | Max Burst Rate in packets per second. Number range from=0 to=4882812 |

**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)# storm-control pps <> burst-rate <>
```

# storm-control unicast level

**storm-control unicast level <0-100> [burst-rate <0-100>]**

**Description:** Configure Storm Control Level (bandwidth percentage) for unicast

**Syntax:**

|         |  |
|---------|--|
| <0-100> | Rate of Bandwidth in Percentage                |
| <0-100> | (Optional) Max Rate of Bandwidth in Percentage |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template policy-group <WORD>
(config-pol-grp-if)# storm-control unicast level <0-100> [burst-rate <0-100>]
```

**storm-control unicast level <0-100> [burst-rate <0-100>]**

**Description:** Configure Storm Control Level (bandwidth percentage) for unicast

**Syntax:**

|         |  |
|---------|--|
| <0-100> | Rate of Bandwidth in Percentage                |
| <0-100> | (Optional) Max Rate of Bandwidth in Percentage |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template port-channel <WORD>
(config-po-ch-if)# storm-control unicast level <0-100> [burst-rate <0-100>]
```

**storm-control unicast level <0-100> [burst-rate <0-100>]**

**Description:** Configure Storm Control Level (bandwidth percentage) for unicast

**Syntax:**

|         |  |
|---------|--|
| <0-100> | Rate of Bandwidth in Percentage                |
| <0-100> | (Optional) Max Rate of Bandwidth in Percentage |

**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)# storm-control unicast level <0-100> [burst-rate <0-100>]
```

### storm-control unicast level <0-100> [burst-rate <0-100>]

**Description:** Configure Storm Control Level (bandwidth percentage) for unicast

**Syntax:**

|         |  |
|---------|--|
| <0-100> | Rate of Bandwidth in Percentage                |
| <0-100> | (Optional) Max Rate of Bandwidth in Percentage |

**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)# storm-control unicast level <0-100> [burst-rate <0-100>]
```

### storm-control unicast level <0-100> [burst-rate <0-100>]

**Description:** Configure Storm Control Level (bandwidth percentage) for unicast

**Syntax:**

|         |  |
|---------|--|
| <0-100> | Rate of Bandwidth in Percentage                |
| <0-100> | (Optional) Max Rate of Bandwidth in Percentage |

**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)# storm-control unicast level <0-100> [burst-rate <0-100>]
```

### storm-control unicast level <0-100> [burst-rate <0-100>]

**Description:** Configure Storm Control Level (bandwidth percentage) for unicast

**Syntax:**

|         |  |
|---------|--|
| <0-100> | Rate of Bandwidth in Percentage                |
| <0-100> | (Optional) Max Rate of Bandwidth in Percentage |

**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)# storm-control unicast level <0-100> [burst-rate <0-100>]
```

### storm-control unicast level <0-100> [burst-rate <0-100>]

**Description:** Configure Storm Control Level (bandwidth percentage) for unicast

#### Syntax:

|         |  |
|---------|--|
| <0-100> | Rate of Bandwidth in Percentage                |
| <0-100> | (Optional) Max Rate of Bandwidth in Percentage |

**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)# storm-control unicast level <0-100> [burst-rate <0-100>]
```

# storm-control unicast pps

**storm-control unicast pps <arg> burst-rate <arg>**

**Description:** Configure Storm Control in packet per second for unicast

**Syntax:**

|            |  |
|------------|--|
| <i>arg</i> | Burst Rate in packets per second. Number range from=0 to=4882812     |
| burst-rate | Max Burst Rate in packets per second                                 |
| <i>arg</i> | Max Burst Rate in packets per second. Number range from=0 to=4882812 |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template policy-group <WORD>
(config-pol-grp-if)# storm-control unicast pps <> burst-rate <>
```

**storm-control unicast pps <arg> burst-rate <arg>**

**Description:** Configure Storm Control in packet per second for unicast

**Syntax:**

|            |  |
|------------|--|
| <i>arg</i> | Burst Rate in packets per second. Number range from=0 to=4882812     |
| burst-rate | Max Burst Rate in packets per second                                 |
| <i>arg</i> | Max Burst Rate in packets per second. Number range from=0 to=4882812 |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template port-channel <WORD>
(config-po-ch-if)# storm-control unicast pps <> burst-rate <>
```

**storm-control unicast pps <arg> burst-rate <arg>**

**Description:** Configure Storm Control in packet per second for unicast

**Syntax:**

|            |  |
|------------|--|
| <i>arg</i> | Burst Rate in packets per second. Number range from=0 to=4882812 |
| burst-rate | Max Burst Rate in packets per second                             |

|            |  |
|------------|--|
| <i>arg</i> | Max Burst Rate in packets per second. Number range from=0 to=4882812 |
|------------|--|

**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)# storm-control unicast pps <> burst-rate <>
```

**storm-control unicast pps <arg> burst-rate <arg>**

**Description:** Configure Storm Control in packet per second for unicast

**Syntax:**

|            |  |
|------------|--|
| <i>arg</i> | Burst Rate in packets per second. Number range from=0 to=4882812     |
| burst-rate | Max Burst Rate in packets per second                                 |
| <i>arg</i> | Max Burst Rate in packets per second. Number range from=0 to=4882812 |

**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)# storm-control unicast pps <> burst-rate <>
```

**storm-control unicast pps <arg> burst-rate <arg>**

**Description:** Configure Storm Control in packet per second for unicast

**Syntax:**

|            |  |
|------------|--|
| <i>arg</i> | Burst Rate in packets per second. Number range from=0 to=4882812     |
| burst-rate | Max Burst Rate in packets per second                                 |
| <i>arg</i> | Max Burst Rate in packets per second. Number range from=0 to=4882812 |

**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)# storm-control unicast pps <> burst-rate <>
```

### storm-control unicast pps <arg> burst-rate <arg>

**Description:** Configure Storm Control in packet per second for unicast

**Syntax:**

|            |  |
|------------|--|
| <i>arg</i> | Burst Rate in packets per second. Number range from=0 to=4882812     |
| burst-rate | Max Burst Rate in packets per second                                 |
| <i>arg</i> | Max Burst Rate in packets per second. Number range from=0 to=4882812 |

**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)# storm-control unicast pps <> burst-rate <>
```

### storm-control unicast pps <arg> burst-rate <arg>

**Description:** Configure Storm Control in packet per second for unicast

**Syntax:**

|            |  |
|------------|--|
| <i>arg</i> | Burst Rate in packets per second. Number range from=0 to=4882812     |
| burst-rate | Max Burst Rate in packets per second                                 |
| <i>arg</i> | Max Burst Rate in packets per second. Number range from=0 to=4882812 |

**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)# storm-control unicast pps <> burst-rate <>
```

# street-address

**street-address <WORD>**

**Description:** Street address of the site

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | The street address (Max Size 255) surrounded by quotes |
|-------------|--|

**Command Mode:** destination-profile : Configure destination profile Parameters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# callhome common
(config-callhome)# destination-profile
(config-callhome-destnprof)# street-address <WORD>
```

**street-address <WORD>**

**Description:** Street address of the site

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | The street address (Max Size 255) surrounded by quotes |
|-------------|--|

**Command Mode:** destination-profile : Configure destination profile Parameters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# smartcallhome common
(config-smartcallhome)# destination-profile
(config-callhome-destnprof)# street-address <WORD>
```



# subject

## subject <WORD>

**Description:** Set The fully qualified domain name or DN of the requesting device.

**Syntax:**

|        |                                    |
|--------|------------------------------------|
| <WORD> | FQDN or DN of device (Max Size 64) |
|--------|------------------------------------|

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

**Command Path:**

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

## subject <WORD>

**Description:** Configuration a subject on the contract

**Syntax:**

|      |  |
|------|--|
| WORD | Name of the contract subject (Max Size 64) |
|------|--|

**Command Mode:** contract : Configure binary contracts between Application EPGs

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# contract <WORD> [type <type>]
(config-tenant-contract)# subject <WORD>
```

# subnet-ip

**subnet-ip** <WORD> [subnet-ctrl <ctrl>]

**Description:** Configure Subnet IP for a L4-L7 Graph Connector.

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Enter Subnet IP address (Max Size None)                               |
| <i>ctrl</i> | (Optional) Configure Subnet Control field for corresponding subnet-id |

**Command Mode:** connector : Configure Connector for a Service Node

**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>]
```

# subnet

**subnet** <WORD>

**Description:** Configure Private IP Subnet

**Syntax:**

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

**Command Mode:** l4l7 resource-pool : Configure L4-L7 Service Resource Pool

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# l4l7 resource-pool <WORD>
(config-resource-pool)# subnet <WORD>
```

# summary-address

**summary-address <IP-PREFIX/LEN>**

**Description:** Route summarization

**Syntax:**

|                      |               |
|----------------------|---------------|
| <i>IP-PREFIX/LEN</i> | Summarized ip |
|----------------------|---------------|

**Command Mode:** vrf : Associate Router OSPF Policy with Tenant/VRF

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# router ospf default|multipod-internal
(config-leaf-ospf)# vrf member tenant <WORD> vrf <WORD>
(config-leaf-ospf-vrf)# summary-address <IP-PREFIX/LEN>
```

**summary-address <IP-PREFIX/LEN>**

**Description:** Route summarization

**Syntax:**

|                      |               |
|----------------------|---------------|
| <i>IP-PREFIX/LEN</i> | Summarized ip |
|----------------------|---------------|

**Command Mode:** vrf : Associate Router OSPF Policy with Tenant/VRF

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# router ospf default|multipod-internal
(config-leaf-ospf)# vrf member tenant <WORD> vrf <WORD>
(config-leaf-ospf-vrf)# summary-address <IP-PREFIX/LEN>
```

# svcredir-pol

**svcredir-pol tenant <tenant> name <WORD>**

**Description:** Configure Service Redirection Policy for a L4-L7 Graph Connector.

**Syntax:**

|          |   |
|----------|---|
| tenant   | Tenant in which the service redirection policy is available |
| <tenant> | Tenant in which the service redirection policy is available |
| name     | Service redirection policy name                             |
| WORD     | Service redirection policy name (Max Size 64)               |

**Command Mode:** connector : Configure Connector for a Service Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# 1417 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)# svcredir-pol tenant <tenant> name <WORD>
```

**svcredir-pol <WORD>**

**Description:** Configure L4L7 service redirection policy

**Syntax:**

|      |   |
|------|---|
| WORD | service redirection policy name (Max Size 64) |
|------|---|

**Command Mode:** tenant : Tenant configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# svcredir-pol <WORD>
```

# switch-group

**switch-group** <WORD>

**Description:** Create switch firmware upgrade policy

**Syntax:**

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

**Command Mode:** firmware : Firmware upgrade configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# firmware
(config-firmware)# switch-group <WORD>
```

# switch

## switch

**Description:** Add switches to switch group

**Syntax:**

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

**Command Mode:** switch-group : Create switch firmware upgrade policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# firmware
(config-firmware)# switch-group <WORD>
(config-firmware-switch)# switch
```

## switch

**Description:** Configure Leaf Node

**Syntax:**

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

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# switch
```

## switch

**Description:** Add switches to zone

**Syntax:**

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

**Command Mode:** zone : Create zone policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# zones
(config-zones)# zone <WORD>
(config-zone)# switch
```

# switching-mode

## switching-mode native|AVE

**Description:** Configure Switching Mode

### Syntax:

|        |                       |
|--------|-----------------------|
| native | Switching Mode Native |
| AVE    | Switching Mode AVE    |

**Command Mode:** vmware-domain : Associate EPG to a VMWare Domain

### Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# application <WORD>
(config-tenant-app)# epg <WORD> [type <WORD>]
(config-tenant-app-epg)# vmware-domain member <WORD> [encap <WORD>] [primary-encap <WORD>]
[allow-micro-segmentation] [deploy <WORD>] [push <WORD>] [binding-type
staticBinding|dynamicBinding|ephemeral] [port-allocation fixed|elastic] [num-ports <WORD>]
[delimiter <WORD>]
(config-tenant-app-epg-domain)# switching-mode native|AVE
```



# switching

## switching mode vlan|vxlan|vxlan-ns

**Description:** Configure switching mode.

**Syntax:**

|          |                |
|----------|----------------|
| mode     | switching Mode |
| vlan     | VLAN/SW Mode   |
| vxlan    | VXLAN/SW Mode  |
| vxlan-ns | VXLAN/HW Mode  |

**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)# switching mode vlan|vxlan|vxlan-ns
```

## switching mode vlan|vxlan|vxlan-ns

**Description:** Configure switching mode.

**Syntax:**

|          |                |
|----------|----------------|
| mode     | switching Mode |
| vlan     | VLAN/SW Mode   |
| vxlan    | VXLAN/SW Mode  |
| vxlan-ns | VXLAN/HW Mode  |

**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)# switching mode vlan|vxlan|vxlan-ns
```

# switchport

## switchport

**Description:** Configure switchport 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)# switchport
```

## switchport

**Description:** Configure switchport 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)# switchport
```

## switchport

**Description:** Configure switchport 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)# switchport
```

## switchport

**Description:** Configure switchport 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)# switchport
```

**switchport**

**Description:** Configure switchport 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)# switchport
```

# switchport access vlan tenant application

**switchport access vlan <NUMBER> tenant <WORD> application <WORD> epg <WORD>**

**Description:** Application Name

**Syntax:**

|          |  |
|----------|--|
| vlan     | Encapsulation Vlan                                       |
| <1-4094> | Encapsulation Vlan. Number range from=1 to=4094          |
| WORD     | Tenant hosting the EPg (Max Size 63)                     |
| WORD     | Application Name (Max Size 64)                           |
| epg      | EPg that uses the statically enabled Encap               |
| WORD     | EPg that uses the statically enabled Encap (Max Size 64) |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template policy-group <WORD>
(config-pol-grp-if)# switchport access vlan <NUMBER> tenant <WORD> application <WORD> epg
<WORD>
```

**switchport access vlan <NUMBER> tenant <WORD> application <WORD> epg <WORD>**

**Description:** Application Name

**Syntax:**

|          |  |
|----------|--|
| vlan     | Encapsulation Vlan                                       |
| <1-4094> | Encapsulation Vlan. Number range from=1 to=4094          |
| WORD     | Tenant hosting the EPg (Max Size 63)                     |
| WORD     | Application Name (Max Size 64)                           |
| epg      | EPg that uses the statically enabled Encap               |
| WORD     | EPg that uses the statically enabled Encap (Max Size 64) |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template port-channel <WORD>
(config-po-ch-if)# switchport access vlan <NUMBER> tenant <WORD> application <WORD> epg
```

&lt;WORD&gt;

**switchport access vlan <NUMBER> tenant <WORD> application <WORD> epg <WORD>****Description:** Application Name**Syntax:**

|          |  |
|----------|--|
| vlan     | Access Vlan  |
| <1-4094> | Access Vlan. Number range from=1 to=4094                 |
| tenant   | Tenant hosting the AEPg                                  |
| WORD     | Tenant hosting the AEPg (Max Size 63)                    |
| WORD     | Application Name (Max Size 64)                           |
| epg      | EPg that uses the statically enabled Encap               |
| WORD     | EPg that uses the statically enabled Encap (Max Size 64) |

**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)# switchport access vlan <NUMBER> tenant <WORD> application <WORD> epg
<WORD>
```

**switchport access vlan <NUMBER> tenant <WORD> application <WORD> epg <WORD>****Description:** Application Name**Syntax:**

|          |  |
|----------|--|
| vlan     | Access Vlan  |
| <1-4094> | Access Vlan. Number range from=1 to=4094                 |
| tenant   | Tenant hosting the AEPg                                  |
| WORD     | Tenant hosting the AEPg (Max Size 63)                    |
| WORD     | Application Name (Max Size 64)                           |
| epg      | EPg that uses the statically enabled Encap               |
| WORD     | EPg that uses the statically enabled Encap (Max Size 64) |

**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)# switchport access vlan <NUMBER> tenant <WORD> application <WORD> epg
<WORD>
```

**switchport access vlan <NUMBER> tenant <WORD> application <WORD> epg <WORD>**

**Description:** Application Name

**Syntax:**

|          |  |
|----------|--|
| vlan     | Access Vlan  |
| <1-4094> | Access Vlan. Number range from=1 to=4094                 |
| tenant   | Tenant hosting the AEPg                                  |
| WORD     | Tenant hosting the AEPg (Max Size 63)                    |
| WORD     | Application Name (Max Size 64)                           |
| epg      | EPg that uses the statically enabled Encap               |
| WORD     | EPg that uses the statically enabled Encap (Max Size 64) |

**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)# switchport access vlan <NUMBER> tenant <WORD> application <WORD> epg
<WORD>
```

**switchport access vlan <NUMBER> tenant <WORD> application <WORD> epg <WORD>**

**Description:** Application Name

**Syntax:**

|          |  |
|----------|--|
| vlan     | Access Vlan  |
| <1-4094> | Access Vlan. Number range from=1 to=4094                 |
| tenant   | Tenant hosting the AEPg                                  |
| WORD     | Tenant hosting the AEPg (Max Size 63)                    |
| WORD     | Application Name (Max Size 64)                           |
| epg      | EPg that uses the statically enabled Encap               |
| WORD     | EPg that uses the statically enabled Encap (Max Size 64) |

**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)# switchport access vlan <NUMBER> tenant <WORD> application <WORD> epg
<WORD>
```

**switchport access vlan <NUMBER> tenant <WORD> application <WORD> epg <WORD>**

**Description:** Application Name

**Syntax:**

|          |  |
|----------|--|
| vlan     | Access Vlan  |
| <1-4094> | Access Vlan. Number range from=1 to=4094                 |
| tenant   | Tenant hosting the AEPg                                  |
| WORD     | Tenant hosting the AEPg (Max Size 63)                    |
| WORD     | Application Name (Max Size 64)                           |
| epg      | EPg that uses the statically enabled Encap               |
| WORD     | EPg that uses the statically enabled Encap (Max Size 64) |

**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)# switchport access vlan <NUMBER> tenant <WORD> application <WORD> epg <WORD>
```

# switchport access vlan tenant external-svi

**switchport access vlan <NUMBER> tenant <WORD> external-svi [l3out] WORD**

**Description:** Associate SVI to the L2 Access Interface

**Syntax:**

|          |  |
|----------|--|
| vlan     | Access Vlan  |
| <1-4094> | Access Vlan. Number range from=1 to=4094                     |
| tenant   | Tenant hosting the AEPg                                      |
| WORD     | Tenant hosting the AEPg (Max Size 63)                        |
| l3out    | (Optional) Specify one or more l3extOut to add SVI interface |
| WORD     | l3extOut Name  |

**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)# switchport access vlan <NUMBER> tenant <WORD> external-svi [l3out] WORD
```

**switchport access vlan <NUMBER> tenant <WORD> external-svi [l3out] WORD**

**Description:** Associate SVI to Access L2 Interface

**Syntax:**

|          |  |
|----------|--|
| vlan     | Access Vlan  |
| <1-4094> | Access Vlan. Number range from=1 to=4094                     |
| tenant   | Tenant hosting the AEPg                                      |
| WORD     | Tenant hosting the AEPg (Max Size 63)                        |
| l3out    | (Optional) Specify one or more l3extOut to add SVI interface |
| WORD     | l3extOut Name  |

**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)# switchport access vlan <NUMBER> tenant <WORD> external-svi [l3out] WORD
```

### switchport access vlan <NUMBER> tenant <WORD> external-svi [l3out] WORD

**Description:** Associate SVI to the L2 Access Interface

#### Syntax:

|          |  |
|----------|--|
| vlan     | Access Vlan  |
| <1-4094> | Access Vlan. Number range from=1 to=4094                     |
| tenant   | Tenant hosting the AEPg                                      |
| WORD     | Tenant hosting the AEPg (Max Size 63)                        |
| l3out    | (Optional) Specify one or more l3extOut to add SVI interface |
| WORD     | l3extOut Name  |

**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)# switchport access vlan <NUMBER> tenant <WORD> external-svi [l3out] WORD
```

### switchport access vlan <NUMBER> tenant <WORD> external-svi [l3out] WORD

**Description:** Associate SVI to Access L2 Interface

#### Syntax:

|          |  |
|----------|--|
| vlan     | Access Vlan  |
| <1-4094> | Access Vlan. Number range from=1 to=4094                     |
| tenant   | Tenant hosting the AEPg                                      |
| WORD     | Tenant hosting the AEPg (Max Size 63)                        |
| l3out    | (Optional) Specify one or more l3extOut to add SVI interface |
| WORD     | l3extOut Name  |

**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)# switchport access vlan <NUMBER> tenant <WORD> external-svi [l3out] WORD
```

**switchport access vlan <NUMBER> tenant <WORD> external-svi [l3out] WORD****Description:** Associate SVI to Access L2 Interface**Syntax:**

|          |  |
|----------|--|
| vlan     | Access Vlan  |
| <1-4094> | Access Vlan. Number range from=1 to=4094                     |
| tenant   | Tenant hosting the AEPg                                      |
| WORD     | Tenant hosting the AEPg (Max Size 63)                        |
| l3out    | (Optional) Specify one or more l3extOut to add SVI interface |
| WORD     | l3extOut Name  |

**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)# switchport access vlan <NUMBER> tenant <WORD> external-svi [l3out] WORD
```

# switchport fill-pattern

## switchport fill-pattern <arg>

**Description:** Configure fill pattern for fc interface

**Syntax:**

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

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template fc-policy-group <WORD>
(config-fc-pol-grp-if)# switchport fill-pattern <>
```

## switchport fill-pattern <arg>

**Description:** Configure Interface fillPattern

**Syntax:**

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

**Command Mode:** interface fc : FC Interface

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface fc <ifRange>
(config-leaf-fc-if)# switchport fill-pattern <>
```

## switchport fill-pattern <arg>

**Description:** Configure Interface fillPattern

**Syntax:**

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

**Command Mode:** interface fc : FC Interface

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface fc <ifRange>
(config-leaf-fc-if)# switchport fill-pattern <>
```

# switchport fillpattern

**switchport fillpattern <arg>**

**Description:** Configure Interface fillPattern

**Syntax:**

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

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface fc-port-channel <WORD>
(config-leaf-fc-pc)# switchport fillpattern <>
```

**switchport fillpattern <arg>**

**Description:** Configure Interface fillPattern

**Syntax:**

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

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface fc-port-channel <WORD>
(config-leaf-fc-pc)# switchport fillpattern <>
```

# switchport mode

## switchport mode <arg>

**Description:** Configure port mode for fc interface

**Syntax:**

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

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

**Command Path:**

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

## switchport mode <arg>

**Description:** Configure switchport mode for interface

**Syntax:**

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

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

**Command Path:**

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

## switchport mode <arg>

**Description:** Configure switchport mode for vfc interface

**Syntax:**

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

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template port-channel <WORD>
```

```
(config-po-ch-if)# switchport mode <>
```

### switchport mode dot1q-tunnel <arg>

**Description:** Tunnel Configuration

**Syntax:**

|              |                           |
|--------------|---------------------------|
| dot1q-tunnel | QinQ Tunnel Configuration |
| <i>arg</i>   |                           |

**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)# switchport mode dot1q-tunnel <>
```

### switchport mode dot1q-tunnel <arg>

**Description:** Tunnel Configuration

**Syntax:**

|              |                           |
|--------------|---------------------------|
| dot1q-tunnel | QinQ Tunnel Configuration |
| <i>arg</i>   |                           |

**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)# switchport mode dot1q-tunnel <>
```

### switchport mode <arg>

**Description:** Configure switchport mode for vfc interface

**Syntax:**

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

**Command Mode:** interface vfc : Virtual Fiber Channel interface

**Command Path:**

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

```
(config-leaf-if)# switchport mode <>
```

### switchport mode <arg>

**Description:** Configure switchport mode for vfc interface

#### Syntax:

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

**Command Mode:** interface vfc-po : VFC Port Channel interface

#### Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vfc-po <WORD> [fex <fex>]
(config-leaf-if)# switchport mode <>
```

### switchport mode <arg>

**Description:** Configure Port Mode

#### Syntax:

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

**Command Mode:** interface fc : FC Interface

#### Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface fc <ifRange>
(config-leaf-fc-if)# switchport mode <>
```

### switchport mode <arg>

**Description:** Configure Port Mode

#### Syntax:

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

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

#### Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface fc-port-channel <WORD>
(config-leaf-fc-pc)# switchport mode <>
```

**switchport mode dot1q-tunnel <arg>****Description:** Tunnel Configuration**Syntax:**

|              |                           |
|--------------|---------------------------|
| dot1q-tunnel | QinQ Tunnel Configuration |
| <i>arg</i>   |                           |

**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)# switchport mode dot1q-tunnel <>
```

**switchport mode dot1q-tunnel <arg>****Description:** Tunnel Configuration**Syntax:**

|              |                           |
|--------------|---------------------------|
| dot1q-tunnel | QinQ Tunnel Configuration |
| <i>arg</i>   |                           |

**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)# switchport mode dot1q-tunnel <>
```

**switchport mode <arg>****Description:** Configure switchport mode for vfc interface**Syntax:**

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

**Command Mode:** interface vfc : Virtual Fiber Channel interface**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vfc <ifRange>
(config-leaf-if)# switchport mode <>
```



**switchport mode <arg>****Description:** Configure switchport mode for vfc interface**Syntax:**

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

**Command Mode:** interface vfc-po : VFC Port Channel interface**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vfc-po <WORD> [fex <fex>]
(config-leaf-if)# switchport mode <>
```

**switchport mode <arg>****Description:** Configure Port Mode**Syntax:**

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

**Command Mode:** interface fc : FC Interface**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface fc <ifRange>
(config-leaf-fc-if)# switchport mode <>
```

**switchport mode <arg>****Description:** Configure Port Mode**Syntax:**

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

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

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface fc-port-channel <WORD>
(config-leaf-fc-pc)# switchport mode <>
```

**switchport mode <arg>****Description:** Configure switchport mode for interface**Syntax:**

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

**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)# switchport mode <>
```

# switchport port-authentication

**switchport port-authentication <WORD>**

**Description:** Port authentication configuration

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Port authentication Policy Group Name (Max Size 64) |
|-------------|---|

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

**Command Path:**

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

# switchport port-authentication enable

## switchport port-authentication enable

**Description:** Set admin state to enabled

**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)# switchport port-authentication enable
```

## switchport port-authentication enable

**Description:** Set admin state to enabled

**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)# switchport port-authentication enable
```

# switchport port-authentication host-mode

**switchport port-authentication host-mode <arg>**

**Description:** Set host mode

**Syntax:**

|            |           |
|------------|-----------|
| <i>arg</i> | Host mode |
|------------|-----------|

**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)# switchport port-authentication host-mode <>
```

**switchport port-authentication host-mode <arg>**

**Description:** Set host mode

**Syntax:**

|            |           |
|------------|-----------|
| <i>arg</i> | Host mode |
|------------|-----------|

**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)# switchport port-authentication host-mode <>
```

# switchport port-authentication mac-auth

**switchport port-authentication mac-auth <WORD>**

**Description:** Set MAC Auth

**Syntax:**

|             |               |
|-------------|---------------|
| <i>WORD</i> | MAC Auth Mode |
|-------------|---------------|

**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)# switchport port-authentication mac-auth <WORD>
```

**switchport port-authentication mac-auth <WORD>**

**Description:** Set MAC Auth

**Syntax:**

|             |               |
|-------------|---------------|
| <i>WORD</i> | MAC Auth Mode |
|-------------|---------------|

**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)# switchport port-authentication mac-auth <WORD>
```

# switchport port-authentication max-reauth-request

**switchport port-authentication max-reauth-request <1-10>**

**Description:** Set reauth request

**Syntax:**

|        |                    |
|--------|--------------------|
| <1-10> | Set reauth request |
|--------|--------------------|

**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)# switchport port-authentication max-reauth-request <1-10>
```

**switchport port-authentication max-reauth-request <1-10>**

**Description:** Set reauth request

**Syntax:**

|        |                    |
|--------|--------------------|
| <1-10> | Set reauth request |
|--------|--------------------|

**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)# switchport port-authentication max-reauth-request <1-10>
```

# switchport port-authentication max-request

**switchport port-authentication max-request <2-10>**

**Description:** Set max request

**Syntax:**

|        |                 |
|--------|-----------------|
| <2-10> | Set max request |
|--------|-----------------|

**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)# switchport port-authentication max-request <2-10>
```

**switchport port-authentication max-request <2-10>**

**Description:** Set max request

**Syntax:**

|        |                 |
|--------|-----------------|
| <2-10> | Set max request |
|--------|-----------------|

**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)# switchport port-authentication max-request <2-10>
```



# switchport port-authentication reauth-period

**switchport port-authentication reauth-period <30-2147483>**

**Description:** Set reauth period

**Syntax:**

|              |                   |
|--------------|-------------------|
| <30-2147483> | Set reauth period |
|--------------|-------------------|

**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)# switchport port-authentication reauth-period <30-2147483>
```

**switchport port-authentication reauth-period <30-2147483>**

**Description:** Set reauth period

**Syntax:**

|              |                   |
|--------------|-------------------|
| <30-2147483> | Set reauth period |
|--------------|-------------------|

**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)# switchport port-authentication reauth-period <30-2147483>
```

# switchport port-authentication reauth

## switchport port-authentication reauth

**Description:** Set reauth request

**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)# switchport port-authentication reauth
```

## switchport port-authentication reauth

**Description:** Set reauth request

**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)# switchport port-authentication reauth
```

# switchport port-authentication server-timeout

**switchport port-authentication server-timeout <4-65535>**

**Description:** Set server timeout

**Syntax:**

|           |                    |
|-----------|--------------------|
| <4-65535> | Set server timeout |
|-----------|--------------------|

**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)# switchport port-authentication server-timeout <4-65535>
```

**switchport port-authentication server-timeout <4-65535>**

**Description:** Set server timeout

**Syntax:**

|           |                    |
|-----------|--------------------|
| <4-65535> | Set server timeout |
|-----------|--------------------|

**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)# switchport port-authentication server-timeout <4-65535>
```

# switchport port-authentication supp-timeout

**switchport port-authentication supp-timeout <4-65535>**

**Description:** Set supplicant timeout

**Syntax:**

|           |                        |
|-----------|------------------------|
| <4-65535> | Set supplicant timeout |
|-----------|------------------------|

**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)# switchport port-authentication supp-timeout <4-65535>
```

**switchport port-authentication supp-timeout <4-65535>**

**Description:** Set supplicant timeout

**Syntax:**

|           |                        |
|-----------|------------------------|
| <4-65535> | Set supplicant timeout |
|-----------|------------------------|

**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)# switchport port-authentication supp-timeout <4-65535>
```

# switchport port-authentication tx-period

**switchport port-authentication tx-period <4-65535>**

**Description:** Set Tx period

**Syntax:**

|           |               |
|-----------|---------------|
| <4-65535> | Set Tx period |
|-----------|---------------|

**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)# switchport port-authentication tx-period <4-65535>
```

**switchport port-authentication tx-period <4-65535>**

**Description:** Set Tx period

**Syntax:**

|           |               |
|-----------|---------------|
| <4-65535> | Set Tx period |
|-----------|---------------|

**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)# switchport port-authentication tx-period <4-65535>
```

# switchport port-security maximum

## switchport port-security maximum <count>

### Description:

### Syntax:

|              |                                |
|--------------|--------------------------------|
| <i>count</i> | . Number range from=0 to=12000 |
|--------------|--------------------------------|

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

### Command Path:

```
# configure [['terminal', 't']]
(config)# template policy-group <WORD>
(config-pol-grp-if)# switchport port-security maximum <count>
```

## switchport port-security maximum <count>

### Description:

### Syntax:

|              |                                |
|--------------|--------------------------------|
| <i>count</i> | . Number range from=0 to=12000 |
|--------------|--------------------------------|

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

### Command Path:

```
# configure [['terminal', 't']]
(config)# template port-channel <WORD>
(config-po-ch-if)# switchport port-security maximum <count>
```

## switchport port-security maximum <arg>

**Description:** Port-security configuration

### Syntax:

|            |                                |
|------------|--------------------------------|
| <i>arg</i> | . Number range from=0 to=12000 |
|------------|--------------------------------|

**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)# switchport port-security maximum <>
```

**switchport port-security maximum <arg>****Description:** Port-security configuration**Syntax:**

|            |                                |
|------------|--------------------------------|
| <i>arg</i> | . Number range from=0 to=12000 |
|------------|--------------------------------|

**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)# switchport port-security maximum <>
```

**switchport port-security maximum <arg>****Description:** Port-security configuration**Syntax:**

|            |                                |
|------------|--------------------------------|
| <i>arg</i> | . Number range from=0 to=12000 |
|------------|--------------------------------|

**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)# switchport port-security maximum <>
```

**switchport port-security maximum <arg>****Description:** Port-security configuration**Syntax:**

|            |                                |
|------------|--------------------------------|
| <i>arg</i> | . Number range from=0 to=12000 |
|------------|--------------------------------|

**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)# switchport port-security maximum <>
```

**switchport port-security maximum <arg>****Description:** Port-security configuration**Syntax:**

|            |                                |
|------------|--------------------------------|
| <i>arg</i> | . Number range from=0 to=12000 |
|------------|--------------------------------|

**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)# switchport port-security maximum <>
```



# switchport port-security timeout

**switchport port-security timeout <count>**

**Description:**

**Syntax:**

|              |                                |
|--------------|--------------------------------|
| <i>count</i> | . Number range from=60 to=3600 |
|--------------|--------------------------------|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template policy-group <WORD>
(config-pol-grp-if)# switchport port-security timeout <count>
```

**switchport port-security timeout <count>**

**Description:**

**Syntax:**

|              |                                |
|--------------|--------------------------------|
| <i>count</i> | . Number range from=60 to=3600 |
|--------------|--------------------------------|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template port-channel <WORD>
(config-po-ch-if)# switchport port-security timeout <count>
```

**switchport port-security timeout <arg>**

**Description:** port-security configuration

**Syntax:**

|            |                                |
|------------|--------------------------------|
| <i>arg</i> | . Number range from=60 to=3600 |
|------------|--------------------------------|

**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)# switchport port-security timeout <>
```

**switchport port-security timeout <arg>****Description:** port-security configuration**Syntax:**

|            |                                |
|------------|--------------------------------|
| <i>arg</i> | . Number range from=60 to=3600 |
|------------|--------------------------------|

**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)# switchport port-security timeout <>
```

**switchport port-security timeout <arg>****Description:** port-security configuration**Syntax:**

|            |                                |
|------------|--------------------------------|
| <i>arg</i> | . Number range from=60 to=3600 |
|------------|--------------------------------|

**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)# switchport port-security timeout <>
```

**switchport port-security timeout <arg>****Description:** port-security configuration**Syntax:**

|            |                                |
|------------|--------------------------------|
| <i>arg</i> | . Number range from=60 to=3600 |
|------------|--------------------------------|

**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)# switchport port-security timeout <>
```

**switchport port-security timeout <arg>****Description:** port-security configuration**Syntax:**

|            |                                |
|------------|--------------------------------|
| <i>arg</i> | . Number range from=60 to=3600 |
|------------|--------------------------------|

**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)# switchport port-security timeout <>
```

# switchport port-security violation

## switchport port-security violation protect

### Description:

### Syntax:

|         |  |
|---------|--|
| protect |  |
|---------|--|

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

### Command Path:

```
# configure [['terminal', 't']]
(config)# template policy-group <WORD>
(config-pol-grp-if)# switchport port-security violation protect
```

## switchport port-security violation protect

### Description:

### Syntax:

|         |  |
|---------|--|
| protect |  |
|---------|--|

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

### Command Path:

```
# configure [['terminal', 't']]
(config)# template port-channel <WORD>
(config-po-ch-if)# switchport port-security violation protect
```

## switchport port-security violation protect

### Description:

 Port-security configuration

### Syntax:

|         |  |
|---------|--|
| protect |  |
|---------|--|

**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)# switchport port-security violation protect
```

**switchport port-security violation protect****Description:** Port-security configuration**Syntax:**

|         |  |
|---------|--|
| protect |  |
|---------|--|

**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)# switchport port-security violation protect
```

**switchport port-security violation protect****Description:** Port-security configuration**Syntax:**

|         |  |
|---------|--|
| protect |  |
|---------|--|

**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)# switchport port-security violation protect
```

**switchport port-security violation protect****Description:** Port-security configuration**Syntax:**

|         |  |
|---------|--|
| protect |  |
|---------|--|

**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)# switchport port-security violation protect
```

**switchport port-security violation protect****Description:** Port-security configuration**Syntax:**

|         |  |
|---------|--|
| protect |  |
|---------|--|

**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)# switchport port-security violation protect
```

# switchport power-over-ethernet

**switchport power-over-ethernet <WORD>**

**Description:** Power Over Ethernet configuration

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | PoE Interface Policy Name (Max Size 64) |
|-------------|---|

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

**Command Path:**

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

# switchport power-over-ethernet consumption

**switchport power-over-ethernet consumption <4000-30000>**

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

**Syntax:**

|              |   |
|--------------|---|
| <4000-30000> | Interface power consumption in milliwatts |
|--------------|---|

**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)# switchport power-over-ethernet consumption <4000-30000>
```

**switchport power-over-ethernet consumption <4000-30000>**

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

**Syntax:**

|              |   |
|--------------|---|
| <4000-30000> | Interface power consumption in milliwatts |
|--------------|---|

**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)# switchport power-over-ethernet consumption <4000-30000>
```



# switchport power-over-ethernet epg

**switchport power-over-ethernet epg tenant <arg> application <arg> epg <arg>**

**Description:** EPG the Power Device will connect to

**Syntax:**

|             |                          |
|-------------|--------------------------|
| tenant      | Tenant hosting the EPg   |
| <i>arg</i>  |                          |
| application | Application Name         |
| <i>arg</i>  |                          |
| epg         | EPg for the Power Device |
| <i>arg</i>  |                          |

**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)# switchport power-over-ethernet epg tenant <> application <> epg <>
```

**switchport power-over-ethernet epg tenant <arg> application <arg> epg <arg>**

**Description:** EPG the Power Device will connect to

**Syntax:**

|             |                          |
|-------------|--------------------------|
| tenant      | Tenant hosting the EPg   |
| <i>arg</i>  |                          |
| application | Application Name         |
| <i>arg</i>  |                          |
| epg         | EPg for the Power Device |
| <i>arg</i>  |                          |

**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)# switchport power-over-ethernet epg tenant <> application <> epg <>
```

# switchport power-over-ethernet max

**switchport power-over-ethernet max <4000-30000>**

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

**Syntax:**

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

**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)# switchport power-over-ethernet max <4000-30000>
```

**switchport power-over-ethernet max <4000-30000>**

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

**Syntax:**

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

**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)# switchport power-over-ethernet max <4000-30000>
```

# switchport power-over-ethernet mode

**switchport power-over-ethernet mode <power mode>**

**Description:** Set mode

**Syntax:**

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

**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)# switchport power-over-ethernet mode <power mode>
```

**switchport power-over-ethernet mode <power mode>**

**Description:** Set mode

**Syntax:**

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

**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)# switchport power-over-ethernet mode <power mode>
```

# switchport power-over-ethernet policeact

**switchport power-over-ethernet policeact <arg>**

**Description:** Policing Action

**Syntax:**

|            |                 |
|------------|-----------------|
| <i>arg</i> | Policing Action |
|------------|-----------------|

**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)# switchport power-over-ethernet policeact <>
```

**switchport power-over-ethernet policeact <arg>**

**Description:** Policing Action

**Syntax:**

|            |                 |
|------------|-----------------|
| <i>arg</i> | Policing Action |
|------------|-----------------|

**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)# switchport power-over-ethernet policeact <>
```

# switchport power-over-ethernet priority

**switchport power-over-ethernet priority <high|low>**

**Description:** Set port priority

**Syntax:**

|            |                           |
|------------|---------------------------|
| <high/low> | Port priority high or low |
|------------|---------------------------|

**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)# switchport power-over-ethernet priority <high|low>
```

**switchport power-over-ethernet priority <high|low>**

**Description:** Set port priority

**Syntax:**

|            |                           |
|------------|---------------------------|
| <high/low> | Port priority high or low |
|------------|---------------------------|

**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)# switchport power-over-ethernet priority <high|low>
```

# switchport power-over-ethernet vlan

**switchport power-over-ethernet vlan <1-4094>**

**Description:** Vlan encapsulation for the Power Device

**Syntax:**

|          |                   |
|----------|-------------------|
| <1-4094> | Configure Vlan ID |
|----------|-------------------|

**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)# switchport power-over-ethernet vlan <1-4094>
```

**switchport power-over-ethernet vlan <1-4094>**

**Description:** Vlan encapsulation for the Power Device

**Syntax:**

|          |                   |
|----------|-------------------|
| <1-4094> | Configure Vlan ID |
|----------|-------------------|

**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)# switchport power-over-ethernet vlan <1-4094>
```

# switchport rxbbcredit

## switchport rxbbcredit <arg>

**Description:** Configure rxBBCredit for fc interface

**Syntax:**

|            |   |
|------------|---|
| <i>arg</i> | Receive Buffer Credit. Number range from=16 to=64 |
|------------|---|

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

**Command Path:**

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

## switchport rxbbcredit <arg>

**Description:** Configure rxBBCredit for fc interface

**Syntax:**

|            |   |
|------------|---|
| <i>arg</i> | Receive Buffer Credit. Number range from=16 to=64 |
|------------|---|

**Command Mode:** interface fc : FC Interface

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface fc <ifRange>
(config-leaf-fc-if)# switchport rxbbcredit <>
```

## switchport rxbbcredit <arg>

**Description:** Configure rxBBCredit for fc interface

**Syntax:**

|            |   |
|------------|---|
| <i>arg</i> | Receive Buffer Credit. Number range from=16 to=64 |
|------------|---|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface fc-port-channel <WORD>
(config-leaf-fc-pc)# switchport rxbbcredit <>
```



**switchport rxbbcredit <arg>****Description:** Configure rxBBCredit for fc interface**Syntax:**

|            |   |
|------------|---|
| <i>arg</i> | Receive Buffer Credit. Number range from=16 to=64 |
|------------|---|

**Command Mode:** interface fc : FC Interface**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface fc <ifRange>
(config-leaf-fc-if)# switchport rxbbcredit <>
```

**switchport rxbbcredit <arg>****Description:** Configure rxBBCredit for fc interface**Syntax:**

|            |   |
|------------|---|
| <i>arg</i> | Receive Buffer Credit. Number range from=16 to=64 |
|------------|---|

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

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface fc-port-channel <WORD>
(config-leaf-fc-pc)# switchport rxbbcredit <>
```

# switchport speed

## switchport speed <arg>

**Description:** Configure speed for fc interface

**Syntax:**

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

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

**Command Path:**

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

## switchport speed <interfaceSpeed>

**Description:** Configure Interface Speed

**Syntax:**

|                  |                        |
|------------------|------------------------|
| <interfaceSpeed> | Interface Speed Policy |
|------------------|------------------------|

**Command Mode:** interface fc : FC Interface

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface fc <ifRange>
(config-leaf-fc-if)# switchport speed <interfaceSpeed>
```

## switchport speed <interfaceSpeed>

**Description:** Configure Interface Speed

**Syntax:**

|                  |                        |
|------------------|------------------------|
| <interfaceSpeed> | Interface Speed Policy |
|------------------|------------------------|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface fc-port-channel <WORD>
(config-leaf-fc-pc)# switchport speed <interfaceSpeed>
```

**switchport speed <interfaceSpeed>****Description:** Configure Interface Speed**Syntax:**

|                  |                        |
|------------------|------------------------|
| <interfaceSpeed> | Interface Speed Policy |
|------------------|------------------------|

**Command Mode:** interface fc : FC Interface**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface fc <ifRange>
(config-leaf-fc-if)# switchport speed <interfaceSpeed>
```

**switchport speed <interfaceSpeed>****Description:** Configure Interface Speed**Syntax:**

|                  |                        |
|------------------|------------------------|
| <interfaceSpeed> | Interface Speed Policy |
|------------------|------------------------|

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

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface fc-port-channel <WORD>
(config-leaf-fc-pc)# switchport speed <interfaceSpeed>
```

# switchport tenant

**switchport tenant <WORD> dot1q-tunnel <WORD>**

**Description:** dot1q-tunnel Configuration

**Syntax:**

|              |                                      |
|--------------|--------------------------------------|
| <i>WORD</i>  | Tenant hosting the EPg (Max Size 63) |
| dot1q-tunnel | Add an dot1q-tunnel                  |
| <i>WORD</i>  | Tunnel EPG name (Max Size 64)        |

**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)# switchport tenant <WORD> dot1q-tunnel <WORD>
```

**switchport tenant <WORD> dot1q-tunnel <WORD>**

**Description:** dot1q-tunnel Configuration

**Syntax:**

|              |                                      |
|--------------|--------------------------------------|
| <i>WORD</i>  | Tenant hosting the EPg (Max Size 63) |
| dot1q-tunnel | Add an dot1q-tunnel                  |
| <i>WORD</i>  | Tunnel EPG name (Max Size 64)        |

**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)# switchport tenant <WORD> dot1q-tunnel <WORD>
```

**switchport tenant <WORD> dot1q-tunnel <WORD>**

**Description:** dot1q-tunnel Configuration

**Syntax:**

|              |                                      |
|--------------|--------------------------------------|
| <i>WORD</i>  | Tenant hosting the EPg (Max Size 63) |
| dot1q-tunnel | Add an dot1q-tunnel                  |

|             |                               |
|-------------|-------------------------------|
| <i>WORD</i> | Tunnel EPG name (Max Size 64) |
|-------------|-------------------------------|

**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)# switchport tenant <WORD> dot1q-tunnel <WORD>
```

**switchport tenant <WORD> dot1q-tunnel <WORD>**

**Description:** dot1q-tunnel Configuration

**Syntax:**

|              |                                      |
|--------------|--------------------------------------|
| <i>WORD</i>  | Tenant hosting the EPg (Max Size 63) |
| dot1q-tunnel | Add an dot1q-tunnel                  |
| <i>WORD</i>  | Tunnel EPG name (Max Size 64)        |

**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)# switchport tenant <WORD> dot1q-tunnel <WORD>
```

**switchport tenant <WORD> dot1q-tunnel <WORD>**

**Description:** dot1q-tunnel Configuration

**Syntax:**

|              |                                      |
|--------------|--------------------------------------|
| <i>WORD</i>  | Tenant hosting the EPg (Max Size 63) |
| dot1q-tunnel | Add an dot1q-tunnel                  |
| <i>WORD</i>  | Tunnel EPG name (Max Size 64)        |

**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)# switchport tenant <WORD> dot1q-tunnel <WORD>
```

# switchport trunk-mode

## switchport trunk-mode <arg>

**Description:** Configure trunkMode for fc interface

**Syntax:**

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

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

**Command Path:**

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

## switchport trunk-mode <arg>

**Description:** Configure Interface Trunking Mode

**Syntax:**

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

**Command Mode:** interface fc : FC Interface

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface fc <ifRange>
(config-leaf-fc-if)# switchport trunk-mode <>
```

## switchport trunk-mode <arg>

**Description:** Configure Interface Trunking Mode

**Syntax:**

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

**Command Mode:** interface fc : FC Interface

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface fc <ifRange>
(config-leaf-fc-if)# switchport trunk-mode <>
```

# switchport trunk allowed vlan inband-mgmt

**switchport trunk allowed vlan <NUMBER> inband-mgmt <A.B.C.D/LEN>**

**Description:** Configure External L2 connectivity to inband Mnaagement

**Syntax:**

|             |   |
|-------------|---|
| vlan        | Encapsulation Vlan  |
| <1-4094>    | Encapsulation Vlan. Number range from=1 to=4094               |
| A.B.C.D/LEN | Gateway IP Address for External Connectivity format x.x.x.x/m |

**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)# switchport trunk allowed vlan <NUMBER> inband-mgmt <A.B.C.D/LEN>
```

**switchport trunk allowed vlan <NUMBER> inband-mgmt <A.B.C.D/LEN>**

**Description:** Configure External L2 connectivity to inband Mnaagement

**Syntax:**

|             |   |
|-------------|---|
| vlan        | Encapsulation Vlan  |
| <1-4094>    | Encapsulation Vlan. Number range from=1 to=4094               |
| A.B.C.D/LEN | Gateway IP Address for External Connectivity format x.x.x.x/m |

**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)# switchport trunk allowed vlan <NUMBER> inband-mgmt <A.B.C.D/LEN>
```

# switchport trunk allowed vlan tenant application

**switchport trunk allowed vlan <NUMBER> tenant <WORD> application <WORD> epg <WORD>**

**Description:** Application Name

**Syntax:**

|          |  |
|----------|--|
| vlan     | Encapsulation Vlan                                       |
| <1-4094> | Encapsulation Vlan. Number range from=1 to=4094          |
| WORD     | Tenant hosting the EPg (Max Size 63)                     |
| WORD     | Application Name (Max Size 64)                           |
| epg      | EPg that uses the statically enabled Encap               |
| WORD     | EPg that uses the statically enabled Encap (Max Size 64) |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template policy-group <WORD>
(config-pol-grp-if)# switchport trunk allowed vlan <NUMBER> tenant <WORD> application <WORD>
epg <WORD>
```

**switchport trunk allowed vlan <NUMBER> tenant <WORD> application <WORD> epg <WORD>**

**Description:** Application Name

**Syntax:**

|          |  |
|----------|--|
| vlan     | Encapsulation Vlan                                       |
| <1-4094> | Encapsulation Vlan. Number range from=1 to=4094          |
| WORD     | Tenant hosting the EPg (Max Size 63)                     |
| WORD     | Application Name (Max Size 64)                           |
| epg      | EPg that uses the statically enabled Encap               |
| WORD     | EPg that uses the statically enabled Encap (Max Size 64) |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template port-channel <WORD>
(config-po-ch-if)# switchport trunk allowed vlan <NUMBER> tenant <WORD> application <WORD>
```



epg <WORD>

**switchport trunk allowed vlan <NUMBER> tenant <WORD> application <WORD> epg <WORD> [primary-vlan primary-vlan <evlan>]**

**Description:** Add an AEPg as static encap

**Syntax:**

|                      |   |
|----------------------|---|
| vlan                 | Encapsulation Vlan  |
| <1-4094>             | Encapsulation Vlan. Number range from=1 to=4094                   |
| WORD                 | Tenant hosting the EPg (Max Size 63)                              |
| WORD                 | Application Name (Max Size 64)                                    |
| epg                  | EPg that uses the statically enabled Encap                        |
| WORD                 | EPg that uses the statically enabled Encap (Max Size 64)          |
| primary-vlan <evlan> | (Optional) Vlan for egress traffic when EPG isolation is enforced |

**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)# switchport trunk allowed vlan <NUMBER> tenant <WORD> application <WORD>
epg <WORD> [primary-vlan primary-vlan <evlan>]
```

**switchport trunk allowed vlan <NUMBER> tenant <WORD> application <WORD> epg <WORD>**

**Description:** Add an AEPg as static encap

**Syntax:**

|          |  |
|----------|--|
| vlan     | Encapsulation Vlan                                       |
| <1-4094> | Encapsulation Vlan. Number range from=1 to=4094          |
| tenant   | Tenant hosting the EPg                                   |
| WORD     | Tenant hosting the EPg (Max Size 63)                     |
| WORD     | Application Name (Max Size 64)                           |
| epg      | EPg that uses the statically enabled Encap               |
| WORD     | EPg that uses the statically enabled Encap (Max Size 64) |

**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)# switchport trunk allowed vlan <NUMBER> tenant <WORD> application <WORD>
epg <WORD>
```

**switchport trunk allowed vlan <NUMBER> tenant <WORD> application <WORD> epg <WORD> [primary-vlan primary-vlan <evlan>]**

**Description:** Add an AEPg as static encap

**Syntax:**

|                      |   |
|----------------------|---|
| vlan                 | Encapsulation Vlan  |
| <1-4094>             | Encapsulation Vlan. Number range from=1 to=4094                   |
| WORD                 | Tenant hosting the EPg (Max Size 63)                              |
| WORD                 | Application Name (Max Size 64)                                    |
| epg                  | EPg that uses the statically enabled Encap                        |
| WORD                 | EPg that uses the statically enabled Encap (Max Size 64)          |
| primary-vlan <evlan> | (Optional) Vlan for egress traffic when EPG isolation is enforced |

**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)# switchport trunk allowed vlan <NUMBER> tenant <WORD> application <WORD>
epg <WORD> [primary-vlan primary-vlan <evlan>]
```

**switchport trunk allowed vlan <NUMBER> tenant <WORD> application <WORD> epg <WORD>**

**Description:** Add an AEPg as static encap

**Syntax:**

|          |   |
|----------|---|
| vlan     | Encapsulation Vlan                              |
| <1-4094> | Encapsulation Vlan. Number range from=1 to=4094 |
| tenant   | Tenant hosting the EPg                          |
| WORD     | Tenant hosting the EPg (Max Size 63)            |
| WORD     | Application Name (Max Size 64)                  |
| epg      | EPg that uses the statically enabled Encap      |

|             |  |
|-------------|--|
| <i>WORD</i> | EPg that uses the statically enabled Encap (Max Size 64) |
|-------------|--|

**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)# switchport trunk allowed vlan <NUMBER> tenant <WORD> application <WORD>
epg <WORD>
```

**switchport trunk allowed vlan <NUMBER> tenant <WORD> application <WORD> epg <WORD>**

**Description:** Add an AEPg as static encap

**Syntax:**

|             |  |
|-------------|--|
| <1-4094>    | Encapsulation Vlan. Number range from=1 to=4094          |
| tenant      | Tenant hosting the EPg                                   |
| <i>WORD</i> | Tenant hosting the EPg (Max Size 63)                     |
| <i>WORD</i> | Application Name (Max Size 64)                           |
| epg         | EPg that uses the statically enabled Encap               |
| <i>WORD</i> | EPg that uses the statically enabled Encap (Max Size 64) |

**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)# switchport trunk allowed vlan <NUMBER> tenant <WORD> application <WORD>
epg <WORD>
```

# switchport trunk allowed vlan tenant external-l2

**switchport trunk allowed vlan <NUMBER> tenant <WORD> external-l2 epg <WORD>**

**Description:** Add a L2 external EPG on the interface

**Syntax:**

|          |   |
|----------|---|
| vlan     | Encapsulation Vlan                              |
| <1-4094> | Encapsulation Vlan. Number range from=1 to=4094 |
| WORD     | Tenant hosting the EPg (Max Size 63)            |
| epg      | L2 external EPG name                            |
| WORD     | L2 external EPG name (Max Size 64)              |

**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)# switchport trunk allowed vlan <NUMBER> tenant <WORD> external-l2 epg
<WORD>
```

**switchport trunk allowed vlan <NUMBER> tenant <WORD> external-l2 epg <WORD>**

**Description:** Add a L2 external EPG on the interface

**Syntax:**

|          |   |
|----------|---|
| vlan     | Encapsulation Vlan                              |
| <1-4094> | Encapsulation Vlan. Number range from=1 to=4094 |
| tenant   | Tenant hosting the EPg                          |
| WORD     | Tenant hosting the EPg (Max Size 63)            |
| epg      | L2 external EPG name                            |
| WORD     | L2 external EPG name (Max Size 64)              |

**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)# switchport trunk allowed vlan <NUMBER> tenant <WORD> external-l2 epg
```

&lt;WORD&gt;

**switchport trunk allowed vlan <NUMBER> tenant <WORD> external-l2 epg <WORD>****Description:** Add a L2 external EPG on the interface**Syntax:**

|          |   |
|----------|---|
| vlan     | Encapsulation Vlan                              |
| <1-4094> | Encapsulation Vlan. Number range from=1 to=4094 |
| WORD     | Tenant hosting the EPg (Max Size 63)            |
| epg      | L2 external EPG name                            |
| WORD     | L2 external EPG name (Max Size 64)              |

**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)# switchport trunk allowed vlan <NUMBER> tenant <WORD> external-l2 epg
<WORD>
```

**switchport trunk allowed vlan <NUMBER> tenant <WORD> external-l2 epg <WORD>****Description:** Add a L2 external EPG on the interface**Syntax:**

|          |   |
|----------|---|
| vlan     | Encapsulation Vlan                              |
| <1-4094> | Encapsulation Vlan. Number range from=1 to=4094 |
| tenant   | Tenant hosting the EPg                          |
| WORD     | Tenant hosting the EPg (Max Size 63)            |
| epg      | L2 external EPG name                            |
| WORD     | L2 external EPG name (Max Size 64)              |

**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)# switchport trunk allowed vlan <NUMBER> tenant <WORD> external-l2 epg
<WORD>
```

**switchport trunk allowed vlan <NUMBER> tenant <WORD> external-l2 epg <WORD>**

**Description:** Add a L2 external EPG on the interface

**Syntax:**

|          |   |
|----------|---|
| <1-4094> | Encapsulation Vlan. Number range from=1 to=4094 |
| tenant   | Tenant hosting the EPg                          |
| WORD     | Tenant hosting the EPg (Max Size 63)            |
| epg      | L2 external EPG name                            |
| WORD     | L2 external EPG name (Max Size 64)              |

**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)# switchport trunk allowed vlan <NUMBER> tenant <WORD> external-l2 epg <WORD>
```

# switchport trunk allowed vlan tenant external-svi

**switchport trunk allowed vlan <NUMBER> tenant <WORD> external-svi [l3out] WORD**

**Description:** Associate SVI to the L2 Interface

**Syntax:**

|          |  |
|----------|--|
| vlan     | Encapsulation Vlan   |
| <1-4094> | Encapsulation Vlan. Number range from=1 to=4094              |
| WORD     | Tenant hosting the EPg (Max Size 63)                         |
| l3out    | (Optional) Specify one or more l3extOut to add SVI interface |
| WORD     | l3extOut Name  |

**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)# switchport trunk allowed vlan <NUMBER> tenant <WORD> external-svi [l3out]
WORD
```

**switchport trunk allowed vlan <NUMBER> tenant <WORD> external-svi [l3out] WORD**

**Description:** Associate SVI to the L2 Interface

**Syntax:**

|          |  |
|----------|--|
| vlan     | Encapsulation Vlan   |
| <1-4094> | Encapsulation Vlan. Number range from=1 to=4094              |
| tenant   | Tenant hosting the EPg                                       |
| WORD     | Tenant hosting the EPg (Max Size 63)                         |
| l3out    | (Optional) Specify one or more l3extOut to add SVI interface |
| WORD     | l3extOut Name  |

**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)# switchport trunk allowed vlan <NUMBER> tenant <WORD> external-svi [l3out]
```

WORD

**switchport trunk allowed vlan <NUMBER> tenant <WORD> external-svi [l3out] WORD****Description:** Associate SVI to the L2 Interface**Syntax:**

|          |  |
|----------|--|
| vlan     | Encapsulation Vlan   |
| <1-4094> | Encapsulation Vlan. Number range from=1 to=4094              |
| WORD     | Tenant hosting the EPg (Max Size 63)                         |
| l3out    | (Optional) Specify one or more l3extOut to add SVI interface |
| WORD     | l3extOut Name  |

**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)# switchport trunk allowed vlan <NUMBER> tenant <WORD> external-svi [l3out]
WORD
```

**switchport trunk allowed vlan <NUMBER> tenant <WORD> external-svi [l3out] WORD****Description:** Associate SVI to the L2 Interface**Syntax:**

|          |  |
|----------|--|
| vlan     | Encapsulation Vlan   |
| <1-4094> | Encapsulation Vlan. Number range from=1 to=4094              |
| tenant   | Tenant hosting the EPg                                       |
| WORD     | Tenant hosting the EPg (Max Size 63)                         |
| l3out    | (Optional) Specify one or more l3extOut to add SVI interface |
| WORD     | l3extOut Name  |

**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)# switchport trunk allowed vlan <NUMBER> tenant <WORD> external-svi [l3out]
WORD
```



**switchport trunk allowed vlan <NUMBER> tenant <WORD> external-svi [l3out] WORD****Description:** Associate SVI to the L2 Interface**Syntax:**

|          |  |
|----------|--|
| <1-4094> | Encapsulation Vlan. Number range from=1 to=4094              |
| tenant   | Tenant hosting the EPg                                       |
| WORD     | Tenant hosting the EPg (Max Size 63)                         |
| l3out    | (Optional) Specify one or more l3extOut to add SVI interface |
| WORD     | l3extOut Name  |

**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)# switchport trunk allowed vlan <NUMBER> tenant <WORD> external-svi [l3out]
WORD
```

# switchport trunk allowed vlan tenant legacy-forwarding

**switchport trunk allowed vlan <NUMBER> tenant <WORD> legacy-forwarding**

**Description:** Add legacy forwarding on the vlan supplied

**Syntax:**

|          |   |
|----------|---|
| vlan     | Encapsulation Vlan                              |
| <1-4094> | Encapsulation Vlan. Number range from=1 to=4094 |
| WORD     | Tenant hosting the EPg (Max Size 63)            |

**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)# switchport trunk allowed vlan <NUMBER> tenant <WORD> legacy-forwarding
```

**switchport trunk allowed vlan <NUMBER> tenant <WORD> legacy-forwarding**

**Description:** Add legacy forwarding on the vlan supplied

**Syntax:**

|          |   |
|----------|---|
| vlan     | Encapsulation Vlan                              |
| <1-4094> | Encapsulation Vlan. Number range from=1 to=4094 |
| tenant   | Tenant hosting the EPg                          |
| WORD     | Tenant hosting the EPg (Max Size 63)            |

**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)# switchport trunk allowed vlan <NUMBER> tenant <WORD> legacy-forwarding
```

**switchport trunk allowed vlan <NUMBER> tenant <WORD> legacy-forwarding**

**Description:** Add legacy forwarding on the vlan supplied

**Syntax:**

|      |                    |
|------|--------------------|
| vlan | Encapsulation Vlan |
|------|--------------------|

|          |   |
|----------|---|
| <1-4094> | Encapsulation Vlan. Number range from=1 to=4094 |
| WORD     | Tenant hosting the EPg (Max Size 63)            |

**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)# switchport trunk allowed vlan <NUMBER> tenant <WORD> legacy-forwarding
```

### switchport trunk allowed vlan <NUMBER> tenant <WORD> legacy-forwarding

**Description:** Add legacy forwarding on the vlan supplied

**Syntax:**

|          |   |
|----------|---|
| vlan     | Encapsulation Vlan                              |
| <1-4094> | Encapsulation Vlan. Number range from=1 to=4094 |
| tenant   | Tenant hosting the EPg                          |
| WORD     | Tenant hosting the EPg (Max Size 63)            |

**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)# switchport trunk allowed vlan <NUMBER> tenant <WORD> legacy-forwarding
```

### switchport trunk allowed vlan <NUMBER> tenant <WORD> legacy-forwarding

**Description:** Add legacy forwarding on the vlan supplied

**Syntax:**

|          |   |
|----------|---|
| <1-4094> | Encapsulation Vlan. Number range from=1 to=4094 |
| tenant   | Tenant hosting the EPg                          |
| WORD     | Tenant hosting the EPg (Max Size 63)            |

**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)# switchport trunk allowed vlan <NUMBER> tenant <WORD> legacy-forwarding
```

# switchport trunk allowed vsan tenant application

**switchport trunk allowed vsan <vsan-id> tenant <WORD> application <WORD> epg <WORD>**

**Description:** Add an AEPg as static encap

**Syntax:**

|                |  |
|----------------|--|
| vsan           | Encapsulation vsan                                       |
| <i>vsan-id</i> | VSAN Id. Number range from=1 to=4093                     |
| <i>WORD</i>    | Tenant hosting the EPg (Max Size 63)                     |
| <i>WORD</i>    | Application Name (Max Size 64)                           |
| epg            | EPg that uses the statically enabled Encap               |
| <i>WORD</i>    | EPg that uses the statically enabled Encap (Max Size 64) |

**Command Mode:** interface vfc : Virtual Fiber Channel interface

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vfc <ifRange>
(config-leaf-if)# switchport trunk allowed vsan <vsan-id> tenant <WORD> application <WORD>
epg <WORD>
```

**switchport trunk allowed vsan <vsan-id> tenant <WORD> application <WORD> epg <WORD>**

**Description:** Add an AEPg as static encap

**Syntax:**

|                |  |
|----------------|--|
| vsan           | Encapsulation vsan                                       |
| <i>vsan-id</i> | VSAN Id. Number range from=1 to=4093                     |
| <i>WORD</i>    | Tenant hosting the EPg (Max Size 63)                     |
| <i>WORD</i>    | Application Name (Max Size 64)                           |
| epg            | EPg that uses the statically enabled Encap               |
| <i>WORD</i>    | EPg that uses the statically enabled Encap (Max Size 64) |

**Command Mode:** interface vfc-po : VFC Port Channel interface

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
```

```
(config-leaf)# interface vfc-po <WORD> [fex <fex>]
(config-leaf-if)# switchport trunk allowed vsan <vsan-id> tenant <WORD> application <WORD>
epg <WORD>
```

### switchport trunk allowed vsan <vsan-id> tenant <WORD> application <WORD> epg <WORD>

**Description:** Add an AEPg as static encap

#### Syntax:

|                |  |
|----------------|--|
| vsan           | Encap vsan   |
| <i>vsan-id</i> | VSAN Id. Number range from=1 to=4093                     |
| <i>WORD</i>    | Tenant hosting the EPg (Max Size 63)                     |
| <i>WORD</i>    | Application Name (Max Size 64)                           |
| epg            | EPg that uses the statically enabled Encap               |
| <i>WORD</i>    | EPg that uses the statically enabled Encap (Max Size 64) |

**Command Mode:** interface fc : FC Interface

#### Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface fc <ifRange>
(config-leaf-fc-if)# switchport trunk allowed vsan <vsan-id> tenant <WORD> application
<WORD> epg <WORD>
```

### switchport trunk allowed vsan <vsan-id> tenant <WORD> application <WORD> epg <WORD>

**Description:** Add an AEPg as static encap

#### Syntax:

|                |  |
|----------------|--|
| vsan           | Encapsulation vsan                                       |
| <i>vsan-id</i> | VSAN Id. Number range from=1 to=4093                     |
| <i>WORD</i>    | Tenant hosting the EPg (Max Size 63)                     |
| <i>WORD</i>    | Application Name (Max Size 64)                           |
| epg            | EPg that uses the statically enabled Encap               |
| <i>WORD</i>    | EPg that uses the statically enabled Encap (Max Size 64) |

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

#### Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
```

```
(config-leaf)# interface fc-port-channel <WORD>
(config-leaf-fc-pc)# switchport trunk allowed vsan <vsan-id> tenant <WORD> application
<WORD> epg <WORD>
```

**switchport trunk allowed vsan <vsan-id> tenant <WORD> application <WORD> epg <WORD>**

**Description:** Add an AEPg as static encap

**Syntax:**

|                |  |
|----------------|--|
| vsan           | Encapsulation vsan                                       |
| <i>vsan-id</i> | VSAN Id. Number range from=1 to=4093                     |
| <i>WORD</i>    | Tenant hosting the EPg (Max Size 63)                     |
| <i>WORD</i>    | Application Name (Max Size 64)                           |
| epg            | EPg that uses the statically enabled Encap               |
| <i>WORD</i>    | EPg that uses the statically enabled Encap (Max Size 64) |

**Command Mode:** interface vfc : Virtual Fiber Channel interface

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vfc <ifRange>
(config-leaf-if)# switchport trunk allowed vsan <vsan-id> tenant <WORD> application <WORD>
epg <WORD>
```

**switchport trunk allowed vsan <vsan-id> tenant <WORD> application <WORD> epg <WORD>**

**Description:** Add an AEPg as static encap

**Syntax:**

|                |  |
|----------------|--|
| vsan           | Encapsulation vsan                                       |
| <i>vsan-id</i> | VSAN Id. Number range from=1 to=4093                     |
| <i>WORD</i>    | Tenant hosting the EPg (Max Size 63)                     |
| <i>WORD</i>    | Application Name (Max Size 64)                           |
| epg            | EPg that uses the statically enabled Encap               |
| <i>WORD</i>    | EPg that uses the statically enabled Encap (Max Size 64) |

**Command Mode:** interface vfc-po : VFC Port Channel interface

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
```

```
(config-spine)# interface vfc-po <WORD> [fex <fex>]
(config-leaf-if)# switchport trunk allowed vsan <vsan-id> tenant <WORD> application <WORD>
epg <WORD>
```

**switchport trunk allowed vsan <vsan-id> tenant <WORD> application <WORD> epg <WORD>**

**Description:** Add an AEPg as static encap

**Syntax:**

|                |  |
|----------------|--|
| vsan           | Encap vsan   |
| <i>vsan-id</i> | VSAN Id. Number range from=1 to=4093                     |
| <i>WORD</i>    | Tenant hosting the EPg (Max Size 63)                     |
| <i>WORD</i>    | Application Name (Max Size 64)                           |
| epg            | EPg that uses the statically enabled Encap               |
| <i>WORD</i>    | EPg that uses the statically enabled Encap (Max Size 64) |

**Command Mode:** interface fc : FC Interface

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface fc <ifRange>
(config-leaf-fc-if)# switchport trunk allowed vsan <vsan-id> tenant <WORD> application
<WORD> epg <WORD>
```

**switchport trunk allowed vsan <vsan-id> tenant <WORD> application <WORD> epg <WORD>**

**Description:** Add an AEPg as static encap

**Syntax:**

|                |  |
|----------------|--|
| vsan           | Encapsulation vsan                                       |
| <i>vsan-id</i> | VSAN Id. Number range from=1 to=4093                     |
| <i>WORD</i>    | Tenant hosting the EPg (Max Size 63)                     |
| <i>WORD</i>    | Application Name (Max Size 64)                           |
| epg            | EPg that uses the statically enabled Encap               |
| <i>WORD</i>    | EPg that uses the statically enabled Encap (Max Size 64) |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
```



```
(config-spine)# interface fc-port-channel <WORD>  
(config-leaf-fc-pc)# switchport trunk allowed vsan <vsan-id> tenant <WORD> application  
<WORD> epg <WORD>
```

# switchport trunk native vlan tenant application

**switchport trunk native vlan <NUMBER> tenant <WORD> application <WORD> epg <WORD>**

**Description:** Application Name

**Syntax:**

|          |  |
|----------|--|
| vlan     | Encapsulation Vlan                                       |
| <1-4094> | Encapsulation Vlan. Number range from=1 to=4094          |
| WORD     | Tenant hosting the EPg (Max Size 63)                     |
| WORD     | Application Name (Max Size 64)                           |
| epg      | EPg that uses the statically enabled Encap               |
| WORD     | EPg that uses the statically enabled Encap (Max Size 64) |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template policy-group <WORD>
(config-pol-grp-if)# switchport trunk native vlan <NUMBER> tenant <WORD> application <WORD>
epg <WORD>
```

**switchport trunk native vlan <NUMBER> tenant <WORD> application <WORD> epg <WORD>**

**Description:** Application Name

**Syntax:**

|          |  |
|----------|--|
| vlan     | Encapsulation Vlan                                       |
| <1-4094> | Encapsulation Vlan. Number range from=1 to=4094          |
| WORD     | Tenant hosting the EPg (Max Size 63)                     |
| WORD     | Application Name (Max Size 64)                           |
| epg      | EPg that uses the statically enabled Encap               |
| WORD     | EPg that uses the statically enabled Encap (Max Size 64) |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template port-channel <WORD>
(config-po-ch-if)# switchport trunk native vlan <NUMBER> tenant <WORD> application <WORD>
```

epg <WORD>

**switchport trunk native vlan <NUMBER> tenant <WORD> application <WORD> epg <WORD>**

**Description:** Application hosting the AEPg

**Syntax:**

|          |  |
|----------|--|
| vlan     | Native Vlan  |
| <1-4094> | Native Vlan. Number range from=1 to=4094                 |
| tenant   | Tenant hosting the AEPg                                  |
| WORD     | Tenant hosting the AEPg (Max Size 63)                    |
| WORD     | Application Name (Max Size 64)                           |
| epg      | EPg that uses the statically enabled Encap               |
| WORD     | EPg that uses the statically enabled Encap (Max Size 64) |

**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)# switchport trunk native vlan <NUMBER> tenant <WORD> application <WORD>
epg <WORD>
```

**switchport trunk native vlan <NUMBER> tenant <WORD> application <WORD> epg <WORD>**

**Description:** Application hosting the AEPg

**Syntax:**

|          |  |
|----------|--|
| vlan     | Native Vlan  |
| <1-4094> | Native Vlan. Number range from=1 to=4094                 |
| tenant   | Tenant hosting the AEPg                                  |
| WORD     | Tenant hosting the AEPg (Max Size 63)                    |
| WORD     | Application Name (Max Size 64)                           |
| epg      | EPg that uses the statically enabled Encap               |
| WORD     | EPg that uses the statically enabled Encap (Max Size 64) |

**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)# switchport trunk native vlan <NUMBER> tenant <WORD> application <WORD>
epg <WORD>
```

**switchport trunk native vlan <NUMBER> tenant <WORD> application <WORD> epg <WORD>**

**Description:** Application hosting the AEPg

**Syntax:**

|          |  |
|----------|--|
| vlan     | Native Vlan  |
| <1-4094> | Native Vlan. Number range from=1 to=4094                 |
| tenant   | Tenant hosting the AEPg                                  |
| WORD     | Tenant hosting the AEPg (Max Size 63)                    |
| WORD     | Application Name (Max Size 64)                           |
| epg      | EPg that uses the statically enabled Encap               |
| WORD     | EPg that uses the statically enabled Encap (Max Size 64) |

**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)# switchport trunk native vlan <NUMBER> tenant <WORD> application <WORD>
epg <WORD>
```

**switchport trunk native vlan <NUMBER> tenant <WORD> application <WORD> epg <WORD>**

**Description:** Application hosting the AEPg

**Syntax:**

|          |  |
|----------|--|
| vlan     | Native Vlan  |
| <1-4094> | Native Vlan. Number range from=1 to=4094                 |
| tenant   | Tenant hosting the AEPg                                  |
| WORD     | Tenant hosting the AEPg (Max Size 63)                    |
| WORD     | Application Name (Max Size 64)                           |
| epg      | EPg that uses the statically enabled Encap               |
| WORD     | EPg that uses the statically enabled Encap (Max Size 64) |

**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)# switchport trunk native vlan <NUMBER> tenant <WORD> application <WORD>
epg <WORD>
```

**switchport trunk native vlan <NUMBER> tenant <WORD> application <WORD> epg <WORD>**

**Description:** Application hosting the AEPg

**Syntax:**

|          |  |
|----------|--|
| vlan     | Native Vlan  |
| <1-4094> | Native Vlan. Number range from=1 to=4094                 |
| tenant   | Tenant hosting the AEPg                                  |
| WORD     | Tenant hosting the AEPg (Max Size 63)                    |
| WORD     | Application Name (Max Size 64)                           |
| epg      | EPg that uses the statically enabled Encap               |
| WORD     | EPg that uses the statically enabled Encap (Max Size 64) |

**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)# switchport trunk native vlan <NUMBER> tenant <WORD> application <WORD> epg
<WORD>
```

# switchport trunk native vlan tenant external-svi

**switchport trunk native vlan <NUMBER> tenant <WORD> external-svi [l3out] WORD**

**Description:** Associate SVI to the L2 Trunk Interface

**Syntax:**

|          |  |
|----------|--|
| vlan     | Native Vlan  |
| <1-4094> | Native Vlan. Number range from=1 to=4094                     |
| tenant   | Tenant hosting the AEPg                                      |
| WORD     | Tenant hosting the AEPg (Max Size 63)                        |
| l3out    | (Optional) Specify one or more l3extOut to add SVI interface |
| WORD     | l3extOut Name  |

**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)# switchport trunk native vlan <NUMBER> tenant <WORD> external-svi [l3out]
WORD
```

**switchport trunk native vlan <NUMBER> tenant <WORD> external-svi [l3out] WORD**

**Description:** Associate Native Vlan to the L2 Trunk Interface as external SVI

**Syntax:**

|          |  |
|----------|--|
| vlan     | Native Vlan  |
| <1-4094> | Native Vlan. Number range from=1 to=4094                     |
| tenant   | Tenant hosting the AEPg                                      |
| WORD     | Tenant hosting the AEPg (Max Size 63)                        |
| l3out    | (Optional) Specify one or more l3extOut to add SVI interface |
| WORD     | l3extOut Name  |

**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)# switchport trunk native vlan <NUMBER> tenant <WORD> external-svi [l3out]
WORD
```

### switchport trunk native vlan <NUMBER> tenant <WORD> external-svi [l3out] WORD

**Description:** Associate SVI to the L2 Trunk Interface

**Syntax:**

|          |  |
|----------|--|
| vlan     | Native Vlan  |
| <1-4094> | Native Vlan. Number range from=1 to=4094                     |
| tenant   | Tenant hosting the AEPg                                      |
| WORD     | Tenant hosting the AEPg (Max Size 63)                        |
| l3out    | (Optional) Specify one or more l3extOut to add SVI interface |
| WORD     | l3extOut Name  |

**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)# switchport trunk native vlan <NUMBER> tenant <WORD> external-svi [l3out]
WORD
```

### switchport trunk native vlan <NUMBER> tenant <WORD> external-svi [l3out] WORD

**Description:** Associate Native Vlan to the L2 Trunk Interface as external SVI

**Syntax:**

|          |  |
|----------|--|
| vlan     | Native Vlan  |
| <1-4094> | Native Vlan. Number range from=1 to=4094                     |
| tenant   | Tenant hosting the AEPg                                      |
| WORD     | Tenant hosting the AEPg (Max Size 63)                        |
| l3out    | (Optional) Specify one or more l3extOut to add SVI interface |
| WORD     | l3extOut Name  |

**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)# switchport trunk native vlan <NUMBER> tenant <WORD> external-svi [l3out]
WORD
```

### switchport trunk native vlan <NUMBER> tenant <WORD> external-svi [l3out] WORD

**Description:** Associate SVI to Trunk L2 Interface

#### Syntax:

|          |  |
|----------|--|
| vlan     | Native Vlan  |
| <1-4094> | Native Vlan. Number range from=1 to=4094                     |
| tenant   | Tenant hosting the AEPg                                      |
| WORD     | Tenant hosting the AEPg (Max Size 63)                        |
| l3out    | (Optional) Specify one or more l3extOut to add SVI interface |
| WORD     | l3extOut Name  |

**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)# switchport trunk native vlan <NUMBER> tenant <WORD> external-svi [l3out]
WORD
```



# switchport trunk qinq outer-vlan inner-vlan tenant application

**switchport trunk qinq outer-vlan <NUMBER> inner-vlan <NUMBER> tenant <WORD> application <WORD> epg <WORD>**

**Description:** Add an AEPg as static encap

**Syntax:**

|            |  |
|------------|--|
| outer-vlan | Encapsulation Outer Vlan                                 |
| <1-4094>   | Encapsulation Outer Vlan. Number range from=1 to=4094    |
| inner-vlan | Encapsulation Inner Vlan                                 |
| <1-4094>   | Encapsulation Inner Vlan. Number range from=1 to=4094    |
| WORD       | Tenant hosting the EPg (Max Size 63)                     |
| WORD       | Application Name (Max Size 64)                           |
| epg        | EPg that uses the statically enabled Encap               |
| WORD       | EPg that uses the statically enabled Encap (Max Size 64) |

**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)# switchport trunk qinq outer-vlan <NUMBER> inner-vlan <NUMBER> tenant
<WORD> application <WORD> epg <WORD>
```

**switchport trunk qinq outer-vlan <NUMBER> inner-vlan <NUMBER> tenant <WORD> application <WORD> epg <WORD>**

**Description:** Add an AEPg as static encap

**Syntax:**

|            |   |
|------------|---|
| outer-vlan | Encapsulation Outer Vlan                              |
| <1-4094>   | Encapsulation Outer Vlan. Number range from=1 to=4094 |
| inner-vlan | Encapsulation Inner Vlan                              |
| <1-4094>   | Encapsulation Inner Vlan. Number range from=1 to=4094 |
| WORD       | Tenant hosting the EPg (Max Size 63)                  |
| WORD       | Application Name (Max Size 64)                        |

|      |  |
|------|--|
| epg  | EPg that uses the statically enabled Encap               |
| WORD | EPg that uses the statically enabled Encap (Max Size 64) |

**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)# switchport trunk qinq outer-vlan <NUMBER> inner-vlan <NUMBER> tenant
<WORD> application <WORD> epg <WORD>
```

**switchport trunk qinq outer-vlan <NUMBER> inner-vlan <NUMBER> tenant <WORD> application <WORD> epg <WORD>**

**Description:** Add an AEPg as static encap

**Syntax:**

|            |  |
|------------|--|
| outer-vlan | Encapsulation Outer Vlan                                 |
| <1-4094>   | Encapsulation Outer Vlan. Number range from=1 to=4094    |
| inner-vlan | Encapsulation Inner Vlan                                 |
| <1-4094>   | Encapsulation Inner Vlan. Number range from=1 to=4094    |
| WORD       | Tenant hosting the EPg (Max Size 63)                     |
| WORD       | Application Name (Max Size 64)                           |
| epg        | EPg that uses the statically enabled Encap               |
| WORD       | EPg that uses the statically enabled Encap (Max Size 64) |

**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)# switchport trunk qinq outer-vlan <NUMBER> inner-vlan <NUMBER> tenant
<WORD> application <WORD> epg <WORD>
```

**switchport trunk qinq outer-vlan <NUMBER> inner-vlan <NUMBER> tenant <WORD> application <WORD> epg <WORD>**

**Description:** Add an AEPg as static encap

**Syntax:**

|            |                          |
|------------|--------------------------|
| outer-vlan | Encapsulation Outer Vlan |
|------------|--------------------------|

|            |  |
|------------|--|
| <1-4094>   | Encapsulation Outer Vlan. Number range from=1 to=4094    |
| inner-vlan | Encapsulation Inner Vlan                                 |
| <1-4094>   | Encapsulation Inner Vlan. Number range from=1 to=4094    |
| WORD       | Tenant hosting the EPg (Max Size 63)                     |
| WORD       | Application Name (Max Size 64)                           |
| epg        | EPg that uses the statically enabled Encap               |
| WORD       | EPg that uses the statically enabled Encap (Max Size 64) |

**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)# switchport trunk qinq outer-vlan <NUMBER> inner-vlan <NUMBER> tenant
<WORD> application <WORD> epg <WORD>
```

**switchport trunk qinq outer-vlan <NUMBER> inner-vlan <NUMBER> tenant <WORD> application <WORD> epg <WORD>**

**Description:** Add an AEPg as static encap

**Syntax:**

|            |  |
|------------|--|
| outer-vlan | Encapsulation Outer Vlan                                 |
| <1-4094>   | Encapsulation Outer Vlan. Number range from=1 to=4094    |
| inner-vlan | Encapsulation Inner Vlan                                 |
| <1-4094>   | Encapsulation Inner Vlan. Number range from=1 to=4094    |
| WORD       | Tenant hosting the EPg (Max Size 63)                     |
| WORD       | Application Name (Max Size 64)                           |
| epg        | EPg that uses the statically enabled Encap               |
| WORD       | EPg that uses the statically enabled Encap (Max Size 64) |

**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)# switchport trunk qinq outer-vlan <NUMBER> inner-vlan <NUMBER> tenant <WORD>
```

```
application <WORD> epg <WORD>
```

# switchport trunkmode

**switchport trunkmode <arg>**

**Description:** Configure Interface Trunking Mode

**Syntax:**

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

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface fc-port-channel <WORD>
(config-leaf-fc-pc)# switchport trunkmode <>
```

**switchport trunkmode <arg>**

**Description:** Configure Interface Trunking Mode

**Syntax:**

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

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface fc-port-channel <WORD>
(config-leaf-fc-pc)# switchport trunkmode <>
```

# switchport vepa

## switchport vepa enabled

**Description:** Switchport vepa configuration

**Syntax:**

|         |  |
|---------|--|
| enabled |  |
|---------|--|

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

**Command Path:**

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

## switchport vepa enabled

**Description:** Vepa configuration

**Syntax:**

|         |  |
|---------|--|
| enabled |  |
|---------|--|

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

**Command Path:**

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

## switchport vepa enabled

**Description:** Vepa configuration

**Syntax:**

|         |  |
|---------|--|
| enabled |  |
|---------|--|

**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)# switchport vepa enabled
```

**switchport vepa enabled****Description:** Vepa Configuration**Syntax:**

|         |  |
|---------|--|
| enabled |  |
|---------|--|

**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)# switchport vepa enabled
```

**switchport vepa enabled****Description:** Vepa configuration**Syntax:**

|         |  |
|---------|--|
| enabled |  |
|---------|--|

**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)# switchport vepa enabled
```

**switchport vepa enabled****Description:** Vepa Configuration**Syntax:**

|         |  |
|---------|--|
| enabled |  |
|---------|--|

**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)# switchport vepa enabled
```

**switchport vepa enabled****Description:** Vepa Configuration**Syntax:**

|         |  |
|---------|--|
| enabled |  |
|---------|--|

**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)# switchport vepa enabled
```



# switchport vlan

## switchport vlan scope local

**Description:** Switchport vlan configuration

**Syntax:**

|       |             |
|-------|-------------|
| scope |             |
| local | Local Scope |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template policy-group <WORD>
(config-pol-grp-if)# switchport vlan scope local
```

## switchport vlan scope local

**Description:**

**Syntax:**

|       |             |
|-------|-------------|
| scope |             |
| local | Local Scope |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template port-channel <WORD>
(config-po-ch-if)# switchport vlan scope local
```

## switchport vlan scope local

**Description:** L2 configuration

**Syntax:**

|       |             |
|-------|-------------|
| scope |             |
| local | Local Scope |

**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)# switchport vlan scope local
```

### switchport vlan scope local

#### Description:

#### Syntax:

|       |             |
|-------|-------------|
| scope |             |
| local | Local Scope |

**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)# switchport vlan scope local
```

### switchport vlan scope local

**Description:** L2 configuration

#### Syntax:

|       |             |
|-------|-------------|
| scope |             |
| local | Local Scope |

**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)# switchport vlan scope local
```

### switchport vlan scope local

#### Description:

#### Syntax:

|       |             |
|-------|-------------|
| scope |             |
| local | Local Scope |

**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)# switchport vlan scope local
```

### switchport vlan scope local

#### Description:

#### Syntax:

|       |             |
|-------|-------------|
| scope |             |
| local | Local Scope |

**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)# switchport vlan scope local
```

# switchport vsan

**switchport vsan <vsan-id> tenant <WORD> application <WORD> epg <WORD>**

**Description:** Encapsulation vsan

**Syntax:**

|                |  |
|----------------|--|
| <i>vsan-id</i> | VSAN Id. Number range from=1 to=4093                     |
| tenant         | Tenant Name  |
| <i>WORD</i>    | Tenant hosting the EPg (Max Size 63)                     |
| application    | Application Name   |
| <i>WORD</i>    | Application Name (Max Size 64)                           |
| epg            | EPg that uses the statically enabled Encap               |
| <i>WORD</i>    | EPg that uses the statically enabled Encap (Max Size 64) |

**Command Mode:** interface vfc : Virtual Fiber Channel interface

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vfc <ifRange>
(config-leaf-if)# switchport vsan <vsan-id> tenant <WORD> application <WORD> epg <WORD>
```

**switchport vsan <vsan-id> tenant <WORD> application <WORD> epg <WORD>**

**Description:** Encapsulation vsan

**Syntax:**

|                |  |
|----------------|--|
| <i>vsan-id</i> | VSAN Id. Number range from=1 to=4093                     |
| tenant         | Tenant Name  |
| <i>WORD</i>    | Tenant hosting the EPg (Max Size 63)                     |
| application    | Application Name   |
| <i>WORD</i>    | Application Name (Max Size 64)                           |
| epg            | EPg that uses the statically enabled Encap               |
| <i>WORD</i>    | EPg that uses the statically enabled Encap (Max Size 64) |

**Command Mode:** interface vfc-po : VFC Port Channel interface

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vfc-po <WORD> [fex <fex>]
(config-leaf-if)# switchport vsan <vsan-id> tenant <WORD> application <WORD> epg <WORD>
```

### switchport vsan <vsan-id> tenant <WORD> application <WORD> epg <WORD>

**Description:** Encapsulation vsan

#### Syntax:

|                |  |
|----------------|--|
| <i>vsan-id</i> | VSAN Id. Number range from=1 to=4093                     |
| tenant         | Tenant Name  |
| <i>WORD</i>    | Tenant hosting the EPg (Max Size 63)                     |
| application    | Application Name   |
| <i>WORD</i>    | Application Name (Max Size 64)                           |
| epg            | EPg that uses the statically enabled Encap               |
| <i>WORD</i>    | EPg that uses the statically enabled Encap (Max Size 64) |

**Command Mode:** interface fc : FC Interface

#### Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface fc <ifRange>
(config-leaf-fc-if)# switchport vsan <vsan-id> tenant <WORD> application <WORD> epg <WORD>
```

### switchport vsan <vsan-id> tenant <WORD> application <WORD> epg <WORD>

**Description:** Encapsulation vsan

#### Syntax:

|                |  |
|----------------|--|
| <i>vsan-id</i> | VSAN Id. Number range from=1 to=4093                     |
| tenant         | Tenant Name  |
| <i>WORD</i>    | Tenant hosting the EPg (Max Size 63)                     |
| application    | Application Name   |
| <i>WORD</i>    | Application Name (Max Size 64)                           |
| epg            | EPg that uses the statically enabled Encap               |
| <i>WORD</i>    | EPg that uses the statically enabled Encap (Max Size 64) |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface fc-port-channel <WORD>
(config-leaf-fc-pc)# switchport vsan <vsan-id> tenant <WORD> application <WORD> epg <WORD>
```

**switchport vsan <vsan-id> tenant <WORD> application <WORD> epg <WORD>**

**Description:** Encapsulation vsan

**Syntax:**

|                |  |
|----------------|--|
| <i>vsan-id</i> | VSAN Id. Number range from=1 to=4093                     |
| tenant         | Tenant Name  |
| <i>WORD</i>    | Tenant hosting the EPg (Max Size 63)                     |
| application    | Application Name   |
| <i>WORD</i>    | Application Name (Max Size 64)                           |
| epg            | EPg that uses the statically enabled Encap               |
| <i>WORD</i>    | EPg that uses the statically enabled Encap (Max Size 64) |

**Command Mode:** interface vfc : Virtual Fiber Channel interface

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vfc <ifRange>
(config-leaf-if)# switchport vsan <vsan-id> tenant <WORD> application <WORD> epg <WORD>
```

**switchport vsan <vsan-id> tenant <WORD> application <WORD> epg <WORD>**

**Description:** Encapsulation vsan

**Syntax:**

|                |  |
|----------------|--|
| <i>vsan-id</i> | VSAN Id. Number range from=1 to=4093                     |
| tenant         | Tenant Name  |
| <i>WORD</i>    | Tenant hosting the EPg (Max Size 63)                     |
| application    | Application Name   |
| <i>WORD</i>    | Application Name (Max Size 64)                           |
| epg            | EPg that uses the statically enabled Encap               |
| <i>WORD</i>    | EPg that uses the statically enabled Encap (Max Size 64) |

**Command Mode:** interface vfc-po : VFC Port Channel interface

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vfc-po <WORD> [fex <fex>]
(config-leaf-if)# switchport vsan <vsan-id> tenant <WORD> application <WORD> epg <WORD>
```

**switchport vsan <vsan-id> tenant <WORD> application <WORD> epg <WORD>**

**Description:** Encapsulation vsan

**Syntax:**

|                |  |
|----------------|--|
| <i>vsan-id</i> | VSAN Id. Number range from=1 to=4093                     |
| tenant         | Tenant Name  |
| <i>WORD</i>    | Tenant hosting the EPg (Max Size 63)                     |
| application    | Application Name   |
| <i>WORD</i>    | Application Name (Max Size 64)                           |
| epg            | EPg that uses the statically enabled Encap               |
| <i>WORD</i>    | EPg that uses the statically enabled Encap (Max Size 64) |

**Command Mode:** interface fc : FC Interface

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface fc <ifRange>
(config-leaf-fc-if)# switchport vsan <vsan-id> tenant <WORD> application <WORD> epg <WORD>
```

**switchport vsan <vsan-id> tenant <WORD> application <WORD> epg <WORD>**

**Description:** Encapsulation vsan

**Syntax:**

|                |  |
|----------------|--|
| <i>vsan-id</i> | VSAN Id. Number range from=1 to=4093       |
| tenant         | Tenant Name                                |
| <i>WORD</i>    | Tenant hosting the EPg (Max Size 63)       |
| application    | Application Name                           |
| <i>WORD</i>    | Application Name (Max Size 64)             |
| epg            | EPg that uses the statically enabled Encap |

|             |  |
|-------------|--|
| <i>WORD</i> | EPg that uses the statically enabled Encap (Max Size 64) |
|-------------|--|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface fc-port-channel <WORD>
(config-leaf-fc-pc)# switchport vsan <vsan-id> tenant <WORD> application <WORD> epg <WORD>
```



# switchport vsan tenant application

**switchport vsan** <NUMBER> **tenant** <WORD> **application** <WORD> **epg** <WORD>

**Description:** Application Name

**Syntax:**

|          |  |
|----------|--|
| <1-4094> | Access Vsan. Number range from=1 to=4094                 |
| tenant   | Tenant hosting the AEPg                                  |
| WORD     | Tenant hosting the AEPg (Max Size 63)                    |
| WORD     | Application Name (Max Size 64)                           |
| epg      | EPg that uses the statically enabled Encap               |
| WORD     | EPg that uses the statically enabled Encap (Max Size 64) |

**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)# switchport vsan <NUMBER> tenant <WORD> application <WORD> epg <WORD>
```

# syslog

## syslog common

**Description:** Syslog common policy configuration mode

**Syntax:**

|        |   |
|--------|---|
| common | Syslog common policy configuration mode |
|--------|---|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# syslog common
```

# system cluster-size

**system cluster-size** <NUMBER>

**Description:** Set APIC cluster size

**Syntax:**

|        |  |
|--------|--|
| <size> | size of the cluster to be set. Number range from=1 to=16 |
|--------|--|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# system cluster-size <NUMBER>
```

# system controller-id

**system controller-id <serial-number> approve|reject**

**Description:** Configure Controller Id for controllers in fabric

**Syntax:**

|                      |                          |
|----------------------|--------------------------|
| <i>serial-number</i> | Controller serial number |
| approve              | Approve controller       |
| reject               | Reject controller        |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# system controller-id <serial-number> approve|reject
```

# system dynamic-load-balance

**system dynamic-load-balance mode**

**link-failure-resiliency|dynamic-aggressive|dynamic-conservative|packet-prioritization**

**Description:** Configure dynamic load balancer

**Syntax:**

|                         |                              |
|-------------------------|------------------------------|
| mode                    | Dynamic load balancer mode   |
| link-failure-resiliency | Link failure resiliency mode |
| dynamic-aggressive      | Aggressive dynamic mode      |
| dynamic-conservative    | Conservative dynamic mode    |
| packet-prioritization   | Packet prioritization mode   |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# system dynamic-load-balance mode
link-failure-resiliency|dynamic-aggressive|dynamic-conservative|packet-prioritization
```

# system enforce-subnet-check

**system enforce-subnet-check**

**Description:** Enforce subnet check on all VRFs

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]  
(config)# system enforce-subnet-check
```

# system external-switch-group

**system external-switch-group <group-name>**

**Description:** External Switch

**Syntax:**

|                   |            |
|-------------------|------------|
| <i>group-name</i> | Group Name |
|-------------------|------------|

**Command Mode:** configure : Configuration Mode

**Command Path:**

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

# system fabric-security-mode

**system fabric-security-mode <mode>**

**Description:** Set strict/permissive mode for ACI Fabric Internode Authentication

**Syntax:**

|                           |   |
|---------------------------|---|
| <code>&lt;mode&gt;</code> | Security mode as comma separated values like val1,val2,..valN |
|---------------------------|---|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# system fabric-security-mode <mode>
```



# system jumbomtu

**system jumbomtu** <NUMBER>

**Description:** MTU size for Host Facing ports

**Syntax:**

|            |   |
|------------|---|
| <576-9216> | Enter jumbomtu. Number range from=576 to=9216 |
|------------|---|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# system jumbomtu <NUMBER>
```

# system pod

**system pod** <NUMBER> tep-pool <A.B.C.D/LEN>

**Description:** POD in the fabric

**Syntax:**

|             |   |
|-------------|---|
| <1-255>     | POD ID. Number range from=1 to=255                            |
| tep-pool    | Tunnel Endpoint IP Address Pool                               |
| A.B.C.D/LEN | Unicast IP prefix and network mask length in format x.x.x.x/m |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# system pod <NUMBER> tep-pool <A.B.C.D/LEN>
```

# system remote-leaf-site

**system remote-leaf-site** <NUMBER> pod <pod> tep-pool <A.B.C.D/LEN>

**Description:** Remote Leaf Site in the fabric

**Syntax:**

|             |   |
|-------------|---|
| <1-255>     | SITE ID. Number range from=1 to=255                           |
| pod         | Pod Id  |
| pod         | pod. Number range from=0 to=9223372036854775807               |
| tep-pool    | Tunnel Endpoint IP Address Pool                               |
| A.B.C.D/LEN | Unicast IP prefix and network mask length in format x.x.x.x/m |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# system remote-leaf-site <NUMBER> pod <pod> tep-pool <A.B.C.D/LEN>
```

# system switch-id

**system switch-id** <serial-number> <node-Id> <WORD> [pod <arg>] [role <arg>] [remote-leaf-site <1-255>] [node-type <arg>]

**Description:** Configure Node Id for switches in fabric

**Syntax:**

|                 |   |
|-----------------|---|
| <serial-number> | Switch serial number  |
| node-Id         | Switch ID. Number range from=101 to=4000  |
| WORD            | Switch name   |
| arg             | (Optional) Pod Id of the the node. Default value is 1. Number range from=1 to=9 |
| arg             | (Optional) Role of Node - leaf or spine. Default is unspecified                 |
| <1-255>         | (Optional) SITE ID  |
| arg             | (Optional) Type of Node only applicable for leaf. Default is unspecified        |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# system switch-id <serial-number> <node-Id> <WORD> [pod <>] [role <>]
[remote-leaf-site <1-255>] [node-type <>]
```

# system use-infra-gipo

## system use-infra-gipo enable

**Description:** Multicast Group IP Policy Mode for Tunnel Outer Header

**Syntax:**

|        |  |
|--------|--|
| enable | Multicast Group IP Policy Mode for Tunnel Outer Header |
|--------|--|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# system use-infra-gipo enable
```





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# tacacs-server host

**tacacs-server host** <A.B.C.D|A:B::C:D|WORD>

**Description:** TACACS+ server's DNS name or its IP address

**Syntax:**

|                              |   |
|------------------------------|---|
| <i>A.B.C.D A:B::C:D WORD</i> | TACACS+ server's DNS name or its IP address |
|------------------------------|---|

**Command Mode:** configure : Configuration Mode

**Command Path:**

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

# tacacs-server retries

**tacacs-server retries** <NUMBER>

**Description:** Global TACACS+ server retries period in seconds

**Syntax:**

|       |   |
|-------|---|
| <0-5> | Global TACACS+ server retries period in seconds. Number range from=0 to=5 |
|-------|---|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tacacs-server retries <NUMBER>
```

# tacacs-server timeout

**tacacs-server timeout** <NUMBER>

**Description:** Global TACACS+ server timeout period in seconds

**Syntax:**

|        |  |
|--------|--|
| <1-60> | Global TACACS+ server timeout period in seconds. Number range from=1 to=60 |
|--------|--|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tacacs-server timeout <NUMBER>
```

# tacacslog-group

**tacacslog-group** <WORD>

**Description:** configure tacacs group

**Syntax:**

|             |                         |
|-------------|-------------------------|
| <i>WORD</i> | Tacacs Accounting Group |
|-------------|-------------------------|

**Command Mode:** configure : Configuration Mode

**Command Path:**

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

# tacacslog-monitoring

**tacacslog-monitoring common tacacslog-src <WORD>**

**Description:** TacacsLog common policy configuration mode

**Syntax:**

|               |  |
|---------------|--|
| common        | TacacsLog common policy configuration mode |
| tacacslog-src | TacacsLog common source                    |
| <i>WORD</i>   | Logging source name (Max Size 64)          |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tacacslog-monitoring common tacacslog-src <WORD>
```

# tag

## tag WORD

**Description:** Add a tag to an epg

**Syntax:**

|             |                                  |
|-------------|----------------------------------|
| <i>WORD</i> | Tag for the object (Max Size 64) |
|-------------|----------------------------------|

**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)# tag WORD
```

## tag <WORD>

**Description:** Add a tag to an application

**Syntax:**

|             |                                  |
|-------------|----------------------------------|
| <i>WORD</i> | Tag for the object (Max Size 64) |
|-------------|----------------------------------|

**Command Mode:** application : application configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# application <WORD>
(config-tenant-app)# tag <WORD>
```

## tag WORD

**Description:** Add a tag to the tenant

**Syntax:**

|             |                                  |
|-------------|----------------------------------|
| <i>WORD</i> | Tag for the object (Max Size 64) |
|-------------|----------------------------------|

**Command Mode:** tenant : Tenant configuration mode

**Command Path:**

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



**tag <NUMBER>****Description:** Set Route Tag**Syntax:**

|                |  |
|----------------|--|
| <0-4294967295> | Route Tag Value. Number range from=0 to=4294967295 |
|----------------|--|

**Command Mode:** template route tag : Configure Route Tag Policy Templates**Command Path:**

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

**tag <NUMBER>****Description:** Set Route Tag**Syntax:**

|                |  |
|----------------|--|
| <0-4294967295> | Route Tag Value. Number range from=0 to=4294967295 |
|----------------|--|

**Command Mode:** template route tag : Configure Route Tag Policy Templates**Command Path:**

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

# target

## target self|children|subtree

**Description:** Configure target dn/class

**Syntax:**

|          |          |
|----------|----------|
| self     | Self     |
| children | Children |
| subtree  | Subtree  |

**Command Mode:** query : Configure Query profile Parameters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# callhome common
(config-callhome)# query-profile
(config-callhome-queryprof)# query <WORD> type dn|class <dn/classname>
(config-callhome-queryprof-query)# target self|children|subtree
```

## target self|children|subtree

**Description:** Configure target dn/class

**Syntax:**

|          |          |
|----------|----------|
| self     | Self     |
| children | Children |
| subtree  | Subtree  |

**Command Mode:** query : Configure Query profile Parameters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# smartcallhome common
(config-smartcallhome)# query-profile
(config-callhome-queryprof)# query <WORD> type dn|class <dn/classname>
(config-callhome-queryprof-query)# target self|children|subtree
```

## target <WORD>

**Description:** Snapshot target

**Syntax:**

|             |                           |
|-------------|---------------------------|
| <i>WORD</i> | infra, fabric or tenant-x |
|-------------|---------------------------|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# snapshot export <WORD>
(config-export)# target <WORD>
```

# telnet

## telnet

**Description:** TELNET communication policy group

**Command Mode:** comm-policy : Configure any communication policy, ssh/telnet/shellinabox/http/https

**Command Path:**

```
# configure [['terminal', 't']]
(config)# comm-policy <WORD>
(config-comm-policy)# telnet
```

# template bfd

## template bfd ip|ipv6 <WORD>

**Description:** BFD group of commands

**Syntax:**

|      |                     |
|------|---------------------|
| ip   | IPV4 Address        |
| ipv6 | IPV6 Address        |
| WORD | Create a BFD policy |

**Command Mode:** configure : Configuration Mode

**Command Path:**

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

## template bfd <WORD> tenant <WORD>

**Description:** Configure BFD Interface Policy Templates

**Syntax:**

|        |   |
|--------|---|
| WORD   | BFD Interface Policy name (Max Size 64) |
| tenant | Tenant for the BFD Policy               |
| WORD   | Tenant name (Max Size 63)               |

**Command Mode:** leaf : Configure Leaf Node

**Command Path:**

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

## template bfd <WORD> tenant <WORD>

**Description:** Configure BFD Interface Policy Templates

**Syntax:**

|        |   |
|--------|---|
| WORD   | BFD Interface Policy name (Max Size 64) |
| tenant | Tenant for the BFD Policy               |
| WORD   | Tenant name (Max Size 63)               |

**Command Mode:** spine : Configure Spine Node

**Command Path:**

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

# template bgp address-family

**template bgp address-family <WORD> tenant <WORD>**

**Description:** Configure Router BGP Address Family Templates

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | BGP Address Family Policy Name (Max Size 64) |
| tenant      | Tenant for the BGP Policy                    |
| <i>WORD</i> | Tenant Name                                  |

**Command Mode:** leaf : Configure Leaf Node

**Command Path:**

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

**template bgp address-family <WORD> tenant <WORD>**

**Description:** Configure Router BGP Address Family Templates

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | BGP Address Family Policy Name (Max Size 64) |
| tenant      | Tenant for the BGP Policy                    |
| <i>WORD</i> | Tenant Name                                  |

**Command Mode:** spine : Configure Spine Node

**Command Path:**

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

# template bgp timers

**template bgp timers <WORD> tenant <WORD>**

**Description:** Configure Router BGP Timer Policy Templates

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Router BGP Timer Policy Name (Max Size 64) |
| tenant      | Tenant for the BGP Policy                  |
| <i>WORD</i> | Tenant Name (Max Size 63)                  |

**Command Mode:** leaf : Configure Leaf Node

**Command Path:**

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

**template bgp timers <WORD> tenant <WORD>**

**Description:** Configure Router BGP Timer Policy Templates

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Router BGP Timer Policy Name (Max Size 64) |
| tenant      | Tenant for the BGP Policy                  |
| <i>WORD</i> | Tenant Name (Max Size 63)                  |

**Command Mode:** spine : Configure Spine Node

**Command Path:**

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



# template cloudsec

**template cloudsec <WORD>**

**Description:** Configure cloudsec Policies

**Syntax:**

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

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template cloudsec <WORD>
```

# template control-plane-policing-prefilter-leaf

**template control-plane-policing-prefilter-leaf <WORD>**

**Description:** Create leaf ACL policy to police/reclassify the traffic

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the policy to add (Max Size 64) |
|-------------|---|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]  
(config)# template control-plane-policing-prefilter-leaf <WORD>
```

# template control-plane-policing-prefilter-spine

**template control-plane-policing-prefilter-spine <WORD>**

**Description:** Create spine ACL policy to police/reclassify the traffic

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the policy to add (Max Size 64) |
|-------------|---|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template control-plane-policing-prefilter-spine <WORD>
```

# template dhcp option

**template dhcp option policy <WORD>**

**Description:** Create a DHCP Option policy

**Syntax:**

|             |  |
|-------------|--|
| policy      | Name of the DHCP Option Policy               |
| <i>WORD</i> | Name of the DHCP Option Policy (Max Size 64) |

**Command Mode:** tenant : Tenant configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template dhcp option policy <WORD>
```

# template dhcp relay

## template dhcp relay policy <WORD>

**Description:** Create a DHCP Relay policy

**Syntax:**

|             |   |
|-------------|---|
| policy      | Name of the DHCP relay policy               |
| <i>WORD</i> | Name of the DHCP relay policy (Max Size 64) |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template dhcp relay policy <WORD>
```

## template dhcp relay policy <WORD>

**Description:** Create a DHCP Relay policy

**Syntax:**

|             |   |
|-------------|---|
| policy      | Name of the DHCP relay policy               |
| <i>WORD</i> | Name of the DHCP relay policy (Max Size 64) |

**Command Mode:** tenant : Tenant configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template dhcp relay policy <WORD>
```

# template dwdm access fabric policy

**template dwdm access|fabric policy <WORD> <NUMBER>**

**Description:** Configure dwdm policy

**Syntax:**

|             |  |
|-------------|--|
| access      | for access interfaces                    |
| fabric      | for fabric interfaces                    |
| <i>WORD</i> | polycyname (Max Size 64)                 |
| <1-96>      | channelNumber. Number range from=1 to=96 |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template dwdm access|fabric policy <WORD> <NUMBER>
```

# template eigrp interface-policy

**template eigrp interface-policy <WORD> tenant <WORD>**

**Description:** Configure EIGRP Interface policy templates

**Syntax:**

|             |                                       |
|-------------|---------------------------------------|
| <i>WORD</i> | Policy name (Max Size 64)             |
| tenant      | Tenant for the EIGRP Interface Policy |
| <i>WORD</i> | Tenant name                           |

**Command Mode:** leaf : Configure Leaf Node

**Command Path:**

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

**template eigrp interface-policy <WORD> tenant <WORD>**

**Description:** Configure EIGRP Interface policy templates

**Syntax:**

|             |                                       |
|-------------|---------------------------------------|
| <i>WORD</i> | Policy name (Max Size 64)             |
| tenant      | Tenant for the EIGRP Interface Policy |
| <i>WORD</i> | Tenant name                           |

**Command Mode:** spine : Configure Spine Node

**Command Path:**

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

# template eigrp vrf-policy

**template eigrp vrf-policy <WORD> tenant <WORD>**

**Description:** Configure EIGRP VRF policy templates

**Syntax:**

|             |                                 |
|-------------|---------------------------------|
| <i>WORD</i> | Policy name (Max Size 64)       |
| tenant      | Tenant for the EIGRP VRF Policy |
| <i>WORD</i> | Tenant name                     |

**Command Mode:** leaf : Configure Leaf Node

**Command Path:**

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

**template eigrp vrf-policy <WORD> tenant <WORD>**

**Description:** Configure EIGRP VRF policy templates

**Syntax:**

|             |                                 |
|-------------|---------------------------------|
| <i>WORD</i> | Policy name (Max Size 64)       |
| tenant      | Tenant for the EIGRP VRF Policy |
| <i>WORD</i> | Tenant name                     |

**Command Mode:** spine : Configure Spine Node

**Command Path:**

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



# template endpoint retention policy

**template endpoint retention policy <WORD>**

**Description:** Configure an endpoint retention policy

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Name of the endpoint retention policy to set (Max Size 64) |
|-------------|--|

**Command Mode:** tenant : Tenant configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template endpoint retention policy <WORD>
```

# template fabric-interface-policy-group

**template fabric-interface-policy-group <WORD>**

**Description:** Configure Leaf Fabric Interface Policy Group Parameters

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Interface Policy Group Name (Max Size 64) |
|-------------|---|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template fabric-interface-policy-group <WORD>
```

# template fc-fabric-policy

**template fc-fabric-policy <WORD>**

**Description:** Configure FC Fabric Policy(Max Size 64)

**Syntax:**

|             |                           |
|-------------|---------------------------|
| <i>WORD</i> | Create a FC Fabric policy |
|-------------|---------------------------|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template fc-fabric-policy <WORD>
```

# template fc-leaf-policy

**template fc-leaf-policy <WORD>**

**Description:** Configure FC Leaf Policy(Max Size 64)

**Syntax:**

|             |                         |
|-------------|-------------------------|
| <i>WORD</i> | Create a FC Leaf policy |
|-------------|-------------------------|

**Command Mode:** configure : Configuration Mode

**Command Path:**

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

# template fc-policy-group

**template fc-policy-group <WORD>**

**Description:** Configure FC Policy Group Parameters

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | FC Interface Policy Group Name (Max Size 64) |
|-------------|--|

**Command Mode:** configure : Configuration Mode

**Command Path:**

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

# template fc-port-channel

**template fc-port-channel <WORD>**

**Description:** Configure FC Port-Channel Parameters

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | FC Port-Channel/VPC Name (Max Size 64) |
|-------------|--|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template fc-port-channel <WORD>
```

# template hsrp group-policy

**template hsrp group-policy <WORD> tenant <WORD>**

**Description:** Configure HSRP Group policy templates

**Syntax:**

|             |                                  |
|-------------|----------------------------------|
| <i>WORD</i> | Policy name (Max Size 64)        |
| tenant      | Tenant for the HSRP GROUP Policy |
| <i>WORD</i> | Tenant name                      |

**Command Mode:** leaf : Configure Leaf Node

**Command Path:**

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

**template hsrp group-policy <WORD> tenant <WORD>**

**Description:** Configure HSRP Group policy templates

**Syntax:**

|             |                                  |
|-------------|----------------------------------|
| <i>WORD</i> | Policy name (Max Size 64)        |
| tenant      | Tenant for the HSRP GROUP Policy |
| <i>WORD</i> | Tenant name                      |

**Command Mode:** spine : Configure Spine Node

**Command Path:**

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

# template hsrp interface-policy

**template hsrp interface-policy <WORD> tenant <WORD>**

**Description:** Configure HSRP Interface policy templates

**Syntax:**

|             |                                      |
|-------------|--------------------------------------|
| <i>WORD</i> | Policy name (Max Size 64)            |
| tenant      | Tenant for the HSRP Interface Policy |
| <i>WORD</i> | Tenant name                          |

**Command Mode:** leaf : Configure Leaf Node

**Command Path:**

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

**template hsrp interface-policy <WORD> tenant <WORD>**

**Description:** Configure HSRP Interface policy templates

**Syntax:**

|             |                                      |
|-------------|--------------------------------------|
| <i>WORD</i> | Policy name (Max Size 64)            |
| tenant      | Tenant for the HSRP Interface Policy |
| <i>WORD</i> | Tenant name                          |

**Command Mode:** spine : Configure Spine Node

**Command Path:**

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



# template ip igmp interface-policy

**template ip igmp interface-policy <WORD>**

**Description:** Create an IGMP interface policy

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the IGMP interface policy to define (Max Size 64) |
|-------------|---|

**Command Mode:** tenant : Tenant configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template ip igmp interface-policy <WORD>
```

## template ip igmp snooping policy

**template ip igmp snooping policy** <WORD>

**Description:** Create an IGMP snooping policy

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Name of the IGMP snooping policy to define (Max Size 64) |
|-------------|--|

**Command Mode:** tenant : Tenant configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template ip igmp snooping policy <WORD>
```

# template ip pim interface-policy

**template ip pim interface-policy <WORD>**

**Description:** Create a PIM interface policy

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Name of the PIM interface policy to be defined (Max Size 64) |
|-------------|--|

**Command Mode:** tenant : Tenant configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template ip pim interface-policy <WORD>
```

# template ipv6 nd policy

## template ipv6 nd policy <WORD>

**Description:** Create/modify an an IPv6 Neighbor Discovery policy

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Name of the policy to create/modify (Max Size 64) |
|-------------|---|

**Command Mode:** tenant : Tenant configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template ipv6 nd policy <WORD>
```

## template ipv6 nd policy <WORD> tenant <WORD>

**Description:** Configure IPv6 Neighbor Discovery policy templates

**Syntax:**

|             |                           |
|-------------|---------------------------|
| <i>WORD</i> | Policy name (Max Size 64) |
| tenant      | Tenant for the ND Policy  |
| <i>WORD</i> | Tenant name               |

**Command Mode:** leaf : Configure Leaf Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template ipv6 nd policy <WORD> tenant <WORD>
```

## template ipv6 nd policy <WORD> tenant <WORD>

**Description:** Configure IPv6 Neighbor Discovery policy templates

**Syntax:**

|             |                           |
|-------------|---------------------------|
| <i>WORD</i> | Policy name (Max Size 64) |
| tenant      | Tenant for the ND Policy  |
| <i>WORD</i> | Tenant name               |

**Command Mode:** spine : Configure Spine Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# template ipv6 nd policy <WORD> tenant <WORD>
```

# template ipv6 nd prefix

**template ipv6 nd prefix policy <WORD>**

**Description:** Create/modify an an IPv6 Neighbor Prefix policy

**Syntax:**

|             |   |
|-------------|---|
| policy      | IPv6 ND Prefix Policy                             |
| <i>WORD</i> | Name of the policy to create/modify (Max Size 64) |

**Command Mode:** tenant : Tenant configuration mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template ipv6 nd prefix policy <WORD>
```

# template isis-fabric

**template isis-fabric <WORD>**

**Description:** InterSystem-InterSystem Protocol (IS-IS)

**Syntax:**

|             |                                     |
|-------------|-------------------------------------|
| <i>WORD</i> | IS-IS Fabric template (Max Size 64) |
|-------------|-------------------------------------|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template isis-fabric <WORD>
```

# template leaf-policy-group

## template leaf-policy-group <WORD>

**Description:** Configure Leaf Policy Group

**Syntax:**

|             |                        |
|-------------|------------------------|
| <i>WORD</i> | Leaf Policy Group Name |
|-------------|------------------------|

**Command Mode:** configure : Configuration Mode

**Command Path:**

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

## template leaf-policy-group <WORD>

**Description:** Configure Leaf Policy Group

**Syntax:**

|             |                        |
|-------------|------------------------|
| <i>WORD</i> | Leaf Policy Group Name |
|-------------|------------------------|

**Command Mode:** fabric-internal : Fabric Policy Configuration for internal ports

**Command Path:**

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



# template macsec access fabric interface-policy

**template macsec access|fabric interface-policy <WORD>**

**Description:** Configure macsec interface policy

**Syntax:**

|             |  |
|-------------|--|
| access      | for access interfaces                  |
| fabric      | for fabric interfaces                  |
| <i>WORD</i> | MAC security policy name (Max Size 64) |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template macsec access|fabric interface-policy <WORD>
```

# template macsec access fabric keychain

**template macsec access|fabric keychain <WORD>**

**Description:** Configure macsec key chain

**Syntax:**

|             |                             |
|-------------|-----------------------------|
| access      | for access interfaces       |
| fabric      | for fabric interfaces       |
| <i>WORD</i> | Keychain name (Max Size 64) |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template macsec access|fabric keychain <WORD>
```

# template macsec access fabric security-policy

**template macsec access|fabric security-policy <WORD>**

**Description:** Configure MAC security policy parameters

**Syntax:**

|             |  |
|-------------|--|
| access      | for access interfaces                  |
| fabric      | for fabric interfaces                  |
| <i>WORD</i> | MAC security policy name (Max Size 64) |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template macsec access|fabric security-policy <WORD>
```

# template ntp-fabric

**template ntp-fabric** <WORD>

**Description:** Network Time Protocol (NTP)

**Syntax:**

|             |                                   |
|-------------|-----------------------------------|
| <i>WORD</i> | NTP Fabric template (Max Size 64) |
|-------------|-----------------------------------|

**Command Mode:** configure : Configuration Mode

**Command Path:**

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

# template ospf interface-policy

**template ospf interface-policy <WORD> tenant <WORD>**

**Description:** Configure OSPF Interface Policy Templates

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | OSPF Interface Policy name (Max Size 64) |
| tenant      | Tenant for the OSPF Policy               |
| <i>WORD</i> | Tenant name (Max Size 63)                |

**Command Mode:** leaf : Configure Leaf Node

**Command Path:**

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

**template ospf interface-policy <WORD> tenant <WORD>**

**Description:** Configure OSPF Interface Policy Templates

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | OSPF Interface Policy name (Max Size 64) |
| tenant      | Tenant for the OSPF Policy               |
| <i>WORD</i> | Tenant name (Max Size 63)                |

**Command Mode:** spine : Configure Spine Node

**Command Path:**

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

# template ospf vrf-policy

**template ospf vrf-policy <WORD> tenant <WORD>**

**Description:** Configure Router OSPF Timer Policy Templates

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Router OSPF Timer Policy name (Max Size 64) |
| tenant      | Tenant for the OSPF Policy                  |
| <i>WORD</i> | Tenant name (Max Size 63)                   |

**Command Mode:** leaf : Configure Leaf Node

**Command Path:**

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

**template ospf vrf-policy <WORD> tenant <WORD>**

**Description:** Configure Router OSPF Timer Policy Templates

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Router OSPF Timer Policy name (Max Size 64) |
| tenant      | Tenant for the OSPF Policy                  |
| <i>WORD</i> | Tenant name (Max Size 63)                   |

**Command Mode:** spine : Configure Spine Node

**Command Path:**

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

# template pod-group

**template pod-group <WORD>**

**Description:** POD Group

**Syntax:**

|             |                              |
|-------------|------------------------------|
| <i>WORD</i> | Pod Group Name (Max Size 64) |
|-------------|------------------------------|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template pod-group <WORD>
```

# template policy-group

**template policy-group** <WORD>

**Description:** Configure Policy Group Parameters

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Interface Policy Group Name (Max Size 64) |
|-------------|---|

**Command Mode:** configure : Configuration Mode

**Command Path:**

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



# template port-channel

**template port-channel** <WORD>

**Description:** Configure Port-Channel Parameters

**Syntax:**

|             |                                     |
|-------------|-------------------------------------|
| <i>WORD</i> | Port-Channel/VPC Name (Max Size 64) |
|-------------|-------------------------------------|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template port-channel <WORD>
```

# template power-over-ethernet node-policy

**template power-over-ethernet node-policy <WORD>**

**Description:** Configure Power Over Ethernet Parameters

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Power Over Ethernet Node Policy Name (Max Size 64) |
|-------------|--|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template power-over-ethernet node-policy <WORD>
```

# template route-profile

## template route-profile <WORD> tenant <WORD>

**Description:** Configure route-profile template under tenant for BGP dampening and route redistribution

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Route-profile template name (Max Size 64) |
| tenant      | Tenant for the route-profile template     |
| <i>WORD</i> | Tenant Name (Max Size 63)                 |

**Command Mode:** leaf : Configure Leaf Node

**Command Path:**

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

## template route-profile <WORD> <WORD> <NUMBER>

**Description:** Configure route-profile template under VRF/L3Out for bridge-domain export

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Route-profile template name  |
| <i>WORD</i> | route control context name   |
| <0-9>       | Relative order for the entry. Number range from=0 to=9223372036854775807 |

**Command Mode:** vrf : Configure VRF parameters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# vrf context tenant <WORD> vrf <WORD> [l3out <l3out>]
(config-leaf-vrf)# template route-profile <WORD> <WORD> <NUMBER>
```

## template route-profile <WORD> tenant <WORD>

**Description:** Configure route-profile template under tenant for BGP dampening and route redistribution

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Route-profile template name (Max Size 64) |
| tenant      | Tenant for the route-profile template     |

|             |                           |
|-------------|---------------------------|
| <i>WORD</i> | Tenant Name (Max Size 63) |
|-------------|---------------------------|

**Command Mode:** spine : Configure Spine Node

**Command Path:**

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

**template route-profile <WORD> <WORD> <NUMBER>**

**Description:** Configure route-profile template under VRF/L3Out for bridge-domain export

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Route-profile template name  |
| <i>WORD</i> | route control context name   |
| <0-9>       | Relative order for the entry. Number range from=0 to=9223372036854775807 |

**Command Mode:** vrf : Configure VRF parameters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# vrf context tenant <WORD> vrf <WORD> [l3out <l3out>]
(config-leaf-vrf)# template route-profile <WORD> <WORD> <NUMBER>
```

# template route group

**template route group <WORD> tenant <WORD>**

**Description:** Configure Route Group

**Syntax:**

|             |                                |
|-------------|--------------------------------|
| <i>WORD</i> | Route group name (Max Size 64) |
| tenant      | Tenant for the route group     |
| <i>WORD</i> | Tenant name (Max Size 63)      |

**Command Mode:** leaf : Configure Leaf Node

**Command Path:**

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

**template route group <WORD> tenant <WORD>**

**Description:** Configure Route Group

**Syntax:**

|             |                                |
|-------------|--------------------------------|
| <i>WORD</i> | Route group name (Max Size 64) |
| tenant      | Tenant for the route group     |
| <i>WORD</i> | Tenant name (Max Size 63)      |

**Command Mode:** spine : Configure Spine Node

**Command Path:**

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

# template route tag

**template route tag <WORD> tenant <WORD>**

**Description:** Configure Route Tag Policy Templates

**Syntax:**

|             |                                     |
|-------------|-------------------------------------|
| <i>WORD</i> | Route Tag Policy Name (Max Size 64) |
| tenant      | Tenant for the Route Tag Policy     |
| <i>WORD</i> | Tenant Name (Max Size 63)           |

**Command Mode:** leaf : Configure Leaf Node

**Command Path:**

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

**template route tag <WORD> tenant <WORD>**

**Description:** Configure Route Tag Policy Templates

**Syntax:**

|             |                                     |
|-------------|-------------------------------------|
| <i>WORD</i> | Route Tag Policy Name (Max Size 64) |
| tenant      | Tenant for the Route Tag Policy     |
| <i>WORD</i> | Tenant Name (Max Size 63)           |

**Command Mode:** spine : Configure Spine Node

**Command Path:**

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

# template snmp-fabric

**template snmp-fabric <WORD>**

**Description:** Simple Network Management Protocol (SNMP)

**Syntax:**

|             |                                    |
|-------------|------------------------------------|
| <i>WORD</i> | SNMP Fabric template (Max Size 64) |
|-------------|------------------------------------|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template snmp-fabric <WORD>
```

# template spine-fabric-interface-policy-group

**template spine-fabric-interface-policy-group** <WORD>

**Description:** Configure Spine Fabric Interface Policy Group Parameters

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Interface Policy Group Name (Max Size 64) |
|-------------|---|

**Command Mode:** configure : Configuration Mode

**Command Path:**

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



# template spine-interface-policy-group

**template spine-interface-policy-group <WORD>**

**Description:** Configure Policy Group Parameters

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Interface Policy Group Name (Max Size 64) |
|-------------|---|

**Command Mode:** configure : Configuration Mode

**Command Path:**

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

# template spine-policy-group

## template spine-policy-group <WORD>

**Description:** Configure Spine Policy Group

**Syntax:**

|             |                         |
|-------------|-------------------------|
| <i>WORD</i> | Spine Policy Group Name |
|-------------|-------------------------|

**Command Mode:** configure : Configuration Mode

**Command Path:**

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

## template spine-policy-group <WORD>

**Description:** Configure Spine Policy Group

**Syntax:**

|             |                         |
|-------------|-------------------------|
| <i>WORD</i> | Spine Policy Group Name |
|-------------|-------------------------|

**Command Mode:** fabric-internal : Fabric Policy Configuration for internal ports

**Command Path:**

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

# template twamp responder-policy

**template twamp responder-policy <WORD>**

**Description:** Configure twamp responder policy

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Twamp Responder Policy Name (Max Size 64) |
|-------------|---|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template twamp responder-policy <WORD>
```

# template twamp server-policy

**template twamp server-policy <WORD>**

**Description:** Configure twamp server policy

**Syntax:**

|             |  |
|-------------|--|
| <i>WORD</i> | Twamp Server Policy Name (Max Size 64) |
|-------------|--|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template twamp server-policy <WORD>
```

# template vsan-attribute

**template vsan-attribute** <WORD>

**Description:** Configure Vsan Attributes(Max Size 64)

**Syntax:**

|             |                                 |
|-------------|---------------------------------|
| <i>WORD</i> | Configure vsan attribute policy |
|-------------|---------------------------------|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template vsan-attribute <WORD>
```

# tenant

**tenant** <WORD>

**Description:** Tenant configuration mode

**Syntax:**

|             |                           |
|-------------|---------------------------|
| <i>WORD</i> | tenant name (Max Size 63) |
|-------------|---------------------------|

**Command Mode:** configure : Configuration Mode

**Command Path:**

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

# terminal

**terminal length <NUMBER>**

**Description:** Enable or disable pager for command output

**Syntax:**

|               |   |
|---------------|---|
| length        | Terminal length keyword   |
| <i>NUMBER</i> | Terminal pager length (0=Disable pager). Number range from=0 to=511 |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# terminal length <NUMBER>
```

# throttle

## throttle <NUMBER>

**Description:** Set the throttle used for HTTP communication service.

### Syntax:

|         |   |
|---------|---|
| <1-100> | Set the throttle used for HTTP communication service.. Number range from=1 to=100 |
|---------|---|

**Command Mode:** http : HTTP communication policy group

### Command Path:

```
# configure [['terminal', 't']]
(config)# comm-policy <WORD>
(config-comm-policy)# http
(config-http)# throttle <NUMBER>
```

## throttle <NUMBER>

**Description:** Set the throttle used for HTTPS communication service.

### Syntax:

|         |  |
|---------|--|
| <1-100> | Set the throttle used for HTTPS communication service.. Number range from=1 to=100 |
|---------|--|

**Command Mode:** https : HTTPS communication policy group

### Command Path:

```
# configure [['terminal', 't']]
(config)# comm-policy <WORD>
(config-comm-policy)# https
(config-https)# throttle <NUMBER>
```



# time

## time start <date-time>

**Description:** Start controller-group upgrade

### Syntax:

|             |  |
|-------------|--|
| start       | Set time to trigger upgrade                  |
| <date-time> | Set the start time ([[[yyyy:]mmm:]dd:]HH:MM) |

**Command Mode:** controller-group : Controller Upgrade Configuration Mode

### Command Path:

```
# configure [['terminal', 't']]
(config)# firmware
(config-firmware)# controller-group
(config-firmware-controller)# time start <date-time>
```

## time start <TIME>

**Description:** Set the window start time

### Syntax:

|             |  |
|-------------|--|
| start       | Set the start time                           |
| <i>TIME</i> | Set the start time [[[[yyyy:]mmm:]dd:]HH:MM] |

**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)# time start <TIME>
```

# time start daily

**time start daily** <TIME>

**Description:** Specify a daily schedule

**Syntax:**

|             |                              |
|-------------|------------------------------|
| <i>TIME</i> | Trigger time in HH:MM format |
|-------------|------------------------------|

**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)# time start daily <TIME>
```

# time start weekly

**time start weekly** monday|tuesday|wednesday|thursday|friday|saturday|sunday|even-day|odd-day|every-day <TIME>

**Description:** Specify a weekly schedule

**Syntax:**

|             |                              |
|-------------|------------------------------|
| monday      | Mondays                      |
| tuesday     | Tuesdays                     |
| wednesday   | Wednesdays                   |
| thursday    | Thursdays                    |
| friday      | Fridays                      |
| saturday    | Saturdays                    |
| sunday      | Sundays                      |
| even-day    | Even days                    |
| odd-day     | Odd days                     |
| every-day   | Everyday                     |
| <i>TIME</i> | Trigger time in HH:MM format |

**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)# time start weekly
monday|tuesday|wednesday|thursday|friday|saturday|sunday|even-day|odd-day|every-day <TIME>
```

# timeout

## timeout <NUMBER>

**Description:** LDAP server timeout for authentication

**Syntax:**

|        |   |
|--------|---|
| <5-60> | LDAP server timeout for authentication. Number range from=5 to=60 |
|--------|---|

**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)# timeout <NUMBER>
```

## timeout <0-60>

**Description:** RADIUS server timeout for authentication

**Syntax:**

|        |  |
|--------|--|
| <0-60> | RADIUS server timeout for authentication |
|--------|--|

**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)# timeout <0-60>
```

## timeout <0-60>

**Description:** RSA server timeout for authentication

**Syntax:**

|        |                                       |
|--------|---------------------------------------|
| <0-60> | RSA server timeout for authentication |
|--------|---------------------------------------|

**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)# timeout <0-60>
```

**timeout <NUMBER>****Description:** TACACS server timeout for authentication**Syntax:**

|        |   |
|--------|---|
| <0-60> | TACACS server timeout for authentication. Number range from=0 to=60 |
|--------|---|

**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)# timeout <NUMBER>
```

**timeout <arg>****Description:** Timeout for TWAMP Responder**Syntax:**

|            |   |
|------------|---|
| <i>arg</i> | Configure Timeout for TWAMP Responder. Number range from=1 to=65535 |
|------------|---|

**Command Mode:** template twamp responder-policy : Configure twamp responder policy**Command Path:**

```
# configure [['terminal', 't']]
(config)# template twamp responder-policy <WORD>
(config-twamp-responder-policy)# timeout <>
```

# timers

## timers bgp <NUMBER> <NUMBER>

**Description:** Set BGP Policy Timers

**Syntax:**

|          |  |
|----------|--|
| bgp      | Set BGP Policy Timers  |
| <0-3600> | Keep-Alive Timer Value in Seconds. Number range from=0 to=3600 |
| <0-3600> | Hold Timer Value in Seconds. Number range from=0 to=3600       |

**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)# timers bgp <NUMBER> <NUMBER>
```

## timers active-time <NUMBER>

**Description:** Set EIGRP Timers

**Syntax:**

|             |  |
|-------------|--|
| active-time | Active timer interval  |
| <1-65535>   | Active timer interval value in minutes. Number range from=1 to=65535 |

**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)# timers active-time <NUMBER>
```

## timers <NUMBER> <NUMBER>

**Description:** Hello and hold timers

**Syntax:**

|              |  |
|--------------|--|
| <250-254000> | Hello interval in seconds. Number range from=250 to=254000 |
| <750-255000> | Hold interval in seconds. Number range from=750 to=255000  |

**Command Mode:** template hsrp group-policy : Configure HSRP Group policy templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template hsrp group-policy <WORD> tenant <WORD>
(config-template-hsrp-group-pol)# timers <NUMBER> <NUMBER>
```

**timers <NUMBER> <NUMBER>****Description:** Hello and hold timers**Syntax:**

|              |   |
|--------------|---|
| <250-254000> | Hello interval in milliseconds. Number range from=250 to=254000 |
| <750-255000> | Hold interval in milliseconds. Number range from=750 to=255000  |

**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)# timers <NUMBER> <NUMBER>
```

**timers <NUMBER> <NUMBER>****Description:** Hello and hold timers**Syntax:**

|              |   |
|--------------|---|
| <250-254000> | Hello interval in milliseconds. Number range from=250 to=254000 |
| <750-255000> | Hold interval in milliseconds. Number range from=750 to=255000  |

**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)# timers <NUMBER> <NUMBER>
```

**timers active-time <NUMBER>****Description:** Set EIGRP Timers**Syntax:**

|             |                       |
|-------------|-----------------------|
| active-time | Active timer interval |
|-------------|-----------------------|

|           |  |
|-----------|--|
| <1-65535> | Active timer interval value in minutes. Number range from=1 to=65535 |
|-----------|--|

**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)# timers active-time <NUMBER>
```

**timers bgp <NUMBER> <NUMBER>**

**Description:** Set BGP Policy Timers

**Syntax:**

|          |  |
|----------|--|
| bgp      | Set BGP Policy Timers  |
| <0-3600> | Keep-Alive Timer Value in Seconds. Number range from=0 to=3600 |
| <0-3600> | Hold Timer Value in Seconds. Number range from=0 to=3600       |

**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)# timers bgp <NUMBER> <NUMBER>
```

**timers active-time <NUMBER>**

**Description:** Set EIGRP Timers

**Syntax:**

|             |  |
|-------------|--|
| active-time | Active timer interval  |
| <1-65535>   | Active timer interval value in minutes. Number range from=1 to=65535 |

**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)# timers active-time <NUMBER>
```



**timers <NUMBER> <NUMBER>****Description:** Hello and hold timers**Syntax:**

|              |  |
|--------------|--|
| <250-254000> | Hello interval in seconds. Number range from=250 to=254000 |
| <750-255000> | Hold interval in seconds. Number range from=750 to=255000  |

**Command Mode:** template hsrp group-policy : Configure HSRP Group policy templates**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# template hsrp group-policy <WORD> tenant <WORD>
(config-template-hsrp-group-pol)# timers <NUMBER> <NUMBER>
```

**timers <NUMBER> <NUMBER>****Description:** Hello and hold timers**Syntax:**

|              |   |
|--------------|---|
| <250-254000> | Hello interval in milliseconds. Number range from=250 to=254000 |
| <750-255000> | Hold interval in milliseconds. Number range from=750 to=255000  |

**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)# timers <NUMBER> <NUMBER>
```

**timers <NUMBER> <NUMBER>****Description:** Hello and hold timers**Syntax:**

|              |   |
|--------------|---|
| <250-254000> | Hello interval in milliseconds. Number range from=250 to=254000 |
| <750-255000> | Hold interval in milliseconds. Number range from=750 to=255000  |

**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)# timers <NUMBER> <NUMBER>
```

### timers active-time <NUMBER>

**Description:** Set EIGRP Timers

**Syntax:**

|             |  |
|-------------|--|
| active-time | Active timer interval  |
| <1-65535>   | Active timer interval value in minutes. Number range from=1 to=65535 |

**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)# timers active-time <NUMBER>
```

# timers lsa-arrival

## timers lsa-arrival <NUMBER>

**Description:** Set the minimum interval between the arrival of each link-state advertisement(LSA)

**Syntax:**

|             |  |
|-------------|--|
| <10-600000> | Interval in milliseconds. Number range from=10 to=600000 |
|-------------|--|

**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)# timers lsa-arrival <NUMBER>
```

## timers lsa-arrival <NUMBER>

**Description:** Set the minimum interval between the arrival of each link-state advertisement(LSA)

**Syntax:**

|             |  |
|-------------|--|
| <10-600000> | Interval in milliseconds. Number range from=10 to=600000 |
|-------------|--|

**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)# timers lsa-arrival <NUMBER>
```

# timers lsa-group-pacing

## timers lsa-group-pacing <NUMBER>

**Description:** Set the interval in which LSAs are grouped and refreshed, checksummed, or aged

**Syntax:**

|          |  |
|----------|--|
| <1-1800> | Interval in seconds. Number range from=1 to=1800 |
|----------|--|

**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)# timers lsa-group-pacing <NUMBER>
```

## timers lsa-group-pacing <NUMBER>

**Description:** Set the interval in which LSAs are grouped and refreshed, checksummed, or aged

**Syntax:**

|          |  |
|----------|--|
| <1-1800> | Interval in seconds. Number range from=1 to=1800 |
|----------|--|

**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)# timers lsa-group-pacing <NUMBER>
```

# timers throttle lsa

**timers throttle lsa** <NUMBER> <NUMBER> <NUMBER>

**Description:** Set the start-interval, hold-interval, max-interval for LSA

**Syntax:**

|                          |  |
|--------------------------|--|
| <start-time 0-5000>      | The generation throttle start-wait interval between LSAs.. Number range from=0 to=5000   |
| <hold-interval 50-30000> | The incremental time (in milliseconds) used to calculate the subsequent rate limiting times for LSA generation.. Number range from=50 to=30000 |
| <max-time 50-30000>      | The generation throttle maximum interval between LSAs.. Number range from=50 to=30000  |

**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)# timers throttle lsa <NUMBER> <NUMBER> <NUMBER>
```

**timers throttle lsa** <NUMBER> <NUMBER> <NUMBER>

**Description:** Set the start-interval, hold-interval, max-interval for LSA

**Syntax:**

|                          |  |
|--------------------------|--|
| <start-time 0-5000>      | The generation throttle start-wait interval between LSAs.. Number range from=0 to=5000   |
| <hold-interval 50-30000> | The incremental time (in milliseconds) used to calculate the subsequent rate limiting times for LSA generation.. Number range from=50 to=30000 |
| <max-time 50-30000>      | The generation throttle maximum interval between LSAs.. Number range from=50 to=30000  |

**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)# timers throttle lsa <NUMBER> <NUMBER> <NUMBER>
```

# timers throttle spf

**timers throttle spf** <NUMBER> <NUMBER> <NUMBER>

**Description:** Set the SPF init-interval, hold-interval, max-interval for LSA

**Syntax:**

|                         |   |
|-------------------------|---|
| <spf-start 1-600000>    | The initial delay interval for the SPF schedule.. Number range from=1 to=600000   |
| <spf-hold 1-600000>     | The minimum hold time between SPF calculations.. Number range from=1 to=600000  |
| <spf-max-wait 1-600000> | The maximum interval between SPF calculations. Each interval after the initial calculation is twice as long as the previous one until the wait interval reaches the maximum wait time specified.. Number range from=1 to=600000 |

**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)# timers throttle spf <NUMBER> <NUMBER> <NUMBER>
```

**timers throttle spf** <NUMBER> <NUMBER> <NUMBER>

**Description:** Set the SPF init-interval, hold-interval, max-interval for LSA

**Syntax:**

|                         |   |
|-------------------------|---|
| <spf-start 1-600000>    | The initial delay interval for the SPF schedule.. Number range from=1 to=600000   |
| <spf-hold 1-600000>     | The minimum hold time between SPF calculations.. Number range from=1 to=600000  |
| <spf-max-wait 1-600000> | The maximum interval between SPF calculations. Each interval after the initial calculation is twice as long as the previous one until the wait interval reaches the maximum wait time specified.. Number range from=1 to=600000 |

**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)# timers throttle spf <NUMBER> <NUMBER> <NUMBER>
```

# totp-enable

## totp-enable

**Description:** Set TOTP 2nd factor Auth for the locally-authenticated user account.

**Command Mode:** username : Create a locally-authenticated user account

### Command Path:

```
# configure [['terminal', 't']]
(config)# username <WORD>
(config-username)# totp-enable
```



# tp

**tp** <WORD>

**Description:** Set third-party certificate from trusted source/point for device identity

**Syntax:**

|        |                                       |
|--------|---------------------------------------|
| <WORD> | third-party certificate (Max Size 64) |
|--------|---------------------------------------|

**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)# tp <WORD>
```

# transmit-delay

## transmit-delay <NUMBER>

**Description:** Set the delay time needed to send an LSA update packet.

### Syntax:

|         |  |
|---------|--|
| <1-450> | Delay in seconds. Number range from=1 to=450 |
|---------|--|

**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)# transmit-delay <NUMBER>
```

## transmit-delay <NUMBER>

**Description:** Set the delay time needed to send an LSA update packet.

### Syntax:

|         |  |
|---------|--|
| <1-450> | Delay in seconds. Number range from=1 to=450 |
|---------|--|

**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)# transmit-delay <NUMBER>
```

# transport

## transport udp <1-65535>

**Description:** Configure Transport Port

**Syntax:**

|           |            |
|-----------|------------|
| udp       | udp        |
| <1-65535> | Port Value |

**Command Mode:** flow exporter : Configure Netflow Exporter

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# flow exporter <WORD> destination address <A.B.C.D or A:B::C:D> transport
udp <dstPort>
(config-tn-flow-exporter)# transport udp <1-65535>
```

## transport udp <1-65535>

**Description:** Configure Transport Port

**Syntax:**

|           |            |
|-----------|------------|
| udp       | udp        |
| <1-65535> | Port Value |

**Command Mode:** flow exporter : Configure Netflow Exporter

**Command Path:**

```
# configure [['terminal', 't']]
(config)# flow exporter <WORD> destination address <A.B.C.D or A:B::C:D> transport udp
<dstPort>
(config-flow-exporter)# transport udp <1-65535>
```

## transport udp <1-65535>

**Description:** Configure Transport Port

**Syntax:**

|           |            |
|-----------|------------|
| udp       | udp        |
| <1-65535> | Port Value |

**Command Mode:** flow vm-exporter : Configure NetFlow Exporter for VM Networking

**Command Path:**

```
# configure [['terminal', 't']]
(config)# flow vm-exporter <WORD> destination address <A.B.C.D or A:B::C:D> transport udp
<dstPort>
(config-flow-vm-exporter)# transport udp <1-65535>
```

# transport email from

## transport email from <WORD>

**Description:** The contact e-mail address

**Syntax:**

|             |                                    |
|-------------|------------------------------------|
| <i>WORD</i> | The e-mail address (Max Size None) |
|-------------|------------------------------------|

**Command Mode:** destination-profile : Configure destination profile Parameters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# callhome common
(config-callhome)# destination-profile
(config-callhome-destnprof)# transport email from <WORD>
```

## transport email from <WORD>

**Description:** The contact e-mail address

**Syntax:**

|             |                                    |
|-------------|------------------------------------|
| <i>WORD</i> | The e-mail address (Max Size None) |
|-------------|------------------------------------|

**Command Mode:** destination-profile : Configure destination profile Parameters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# smartcallhome common
(config-smartcallhome)# destination-profile
(config-callhome-destnprof)# transport email from <WORD>
```

# transport email mail-server

**transport email mail-server** <host/ipaddr> [port <port>] [mgmtepg <mgmtepg>]

**Description:** Configure SMTP server

**Syntax:**

|               |   |
|---------------|---|
| <host/ipaddr> | The hostname or ipaddress of the destination          |
| port          | (Optional) Port Number. Number range from=1 to=633535 |
| mgmtepg       | (Optional) mgmtepg                                    |

**Command Mode:** destination-profile : Configure destination profile Parameters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# callhome common
(config-callhome)# destination-profile
(config-callhome-destnprof)# transport email mail-server <host/ipaddr> [port <port>] [mgmtepg
<mgmtepg>]
```

**transport email mail-server** <host/ipaddr> [port <port>] [mgmtepg <mgmtepg>]

**Description:** Configure SMTP server

**Syntax:**

|               |   |
|---------------|---|
| <host/ipaddr> | The hostname or ipaddress of the destination          |
| port          | (Optional) Port Number. Number range from=1 to=633535 |
| mgmtepg       | (Optional) mgmtepg                                    |

**Command Mode:** destination-profile : Configure destination profile Parameters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# smartcallhome common
(config-smartcallhome)# destination-profile
(config-callhome-destnprof)# transport email mail-server <host/ipaddr> [port <port>] [mgmtepg
<mgmtepg>]
```

# transport email reply-to

## transport email reply-to <WORD>

**Description:** The contact e-mail address

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Reply-To e-mail address (Max Size None) |
|-------------|---|

**Command Mode:** destination-profile : Configure destination profile Parameters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# callhome common
(config-callhome)# destination-profile
(config-callhome-destnprof)# transport email reply-to <WORD>
```

## transport email reply-to <WORD>

**Description:** The contact e-mail address

**Syntax:**

|             |   |
|-------------|---|
| <i>WORD</i> | Reply-To e-mail address (Max Size None) |
|-------------|---|

**Command Mode:** destination-profile : Configure destination profile Parameters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# smartcallhome common
(config-smartcallhome)# destination-profile
(config-callhome-destnprof)# transport email reply-to <WORD>
```

# trigger-inventory

**trigger-inventory** <trigger-inventory>

**Description:** Trigger Inventory

**Syntax:**

|                          |                   |
|--------------------------|-------------------|
| <i>trigger-inventory</i> | Trigger Inventory |
|--------------------------|-------------------|

**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)# trigger-inventory <trigger-inventory>
```



# trigger fabric-discovery

**trigger fabric-discovery** <NUMBER>

**Description:** Trigger fabric discovery

**Syntax:**

|                         |  |
|-------------------------|--|
| < <i>cluster-size</i> > | Size of the cluster. Number range from=1 to=16 |
|-------------------------|--|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# trigger fabric-discovery <NUMBER>
```

# trigger id-import

**trigger id-import** <PolicyName> <NUMBER>

**Description:** Import IDs and configurations from file

**Syntax:**

|                   |  |
|-------------------|--|
| <i>PolicyName</i> | Snapshot import configuration name                       |
| <num-pods>        | Number of PODs in the fabric. Number range from=1 to=255 |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# trigger id-import <PolicyName> <NUMBER>
```

# trigger reconcile

**trigger reconcile** [['recover', 'checker', 'fixer']]

**Description:** Reconcile imported policies with switches

**Syntax:**

|         |                          |
|---------|--------------------------|
| recover | (Optional) Reconcile     |
| checker | (Optional) Run Checker   |
| fixer   | (Optional) Apply Checker |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# trigger reconcile [['recover', 'checker', 'fixer']]
```

# trigger shutdown

**trigger shutdown controller <NUMBER>**

**Description:** Shutdown controller

**Syntax:**

|            |  |
|------------|--|
| controller | Shutdown controller                      |
| <1-64>     | Controller id. Number range from=1 to=64 |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# trigger shutdown controller <NUMBER>
```

# trigger snapshot download

**trigger snapshot download** <WORD>

**Description:** Trigger command for snapshot download

**Syntax:**

|             |                                      |
|-------------|--------------------------------------|
| <i>WORD</i> | Snapshot download configuration name |
|-------------|--------------------------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# trigger snapshot download <WORD>
```

# trigger snapshot export

**trigger snapshot export <WORD>**

**Description:** Trigger command for snapshot export

**Syntax:**

|             |                                    |
|-------------|------------------------------------|
| <i>WORD</i> | Snapshot export configuration name |
|-------------|------------------------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# trigger snapshot export <WORD>
```

# trigger snapshot import

**trigger snapshot import <WORD>**

**Description:** Trigger command for snapshot import

**Syntax:**

|             |                                    |
|-------------|------------------------------------|
| <i>WORD</i> | Snapshot import configuration name |
|-------------|------------------------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# trigger snapshot import <WORD>
```

# trigger snapshot rollback

**trigger snapshot rollback <WORD>**

**Description:** Trigger command for snapshot rollback

**Syntax:**

|             |                                      |
|-------------|--------------------------------------|
| <i>WORD</i> | Snapshot rollback configuration name |
|-------------|--------------------------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# trigger snapshot rollback <WORD>
```



# trigger snapshot upload

**trigger snapshot upload <WORD>**

**Description:** Trigger command for snapshot upload

**Syntax:**

|             |                                    |
|-------------|------------------------------------|
| <i>WORD</i> | Snapshot upload configuration name |
|-------------|------------------------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# trigger snapshot upload <WORD>
```

# trigger techsupport all

**trigger techsupport all include-upgrade-logs [remotename <remote-path>]**

**Description:** Trigger techsupport for controllers and switches

**Syntax:**

|                      |                        |
|----------------------|------------------------|
| include-upgrade-logs | Include upgrade logs   |
| <i>remote-path</i>   | (Optional) remote-path |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# trigger techsupport all include-upgrade-logs [remotename <remote-path>]
```

# trigger techsupport controllers

**trigger techsupport controllers include-upgrade-logs [remotename <remote-path>]**

**Description:** Trigger techsupport for a controllers

**Syntax:**

|                      |                        |
|----------------------|------------------------|
| include-upgrade-logs | Include upgrade logs   |
| <i>remote-path</i>   | (Optional) remote-path |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# trigger techsupport controllers include-upgrade-logs [remotename <remote-path>]
```

# trigger techsupport host

**trigger techsupport host** <NUMBER> remotename <remote-file-name> [node <leaf-node-id>]

**Description:** Trigger techsupport for a host

**Syntax:**

|                    |  |
|--------------------|--|
| <Odevid>           | Specify the host Odev ID. Number range from=0 to=9223372036854775807 |
| remotename         | Specify the file remote path name                                    |
| <remote-file-name> | Remote path file name  |
| <leaf-node-id>     | (Optional) Specify the leaf node id                                  |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# trigger techsupport host <NUMBER> remotename <remote-file-name> [node <leaf-node-id>]
```

# trigger techsupport local

**trigger techsupport local**

**Description:** Trigger techsupport for a local

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# trigger techsupport local
```

## trigger techsupport switch

**trigger techsupport switch switchId <switchId> include-upgrade-logs [remotename <remote-path>]**

**Description:** Trigger techsupport for a switch

**Syntax:**

|                                     |   |
|-------------------------------------|---|
| <i>switchId</i> < <i>switchId</i> > | switch id 101-4000 or range(s): 101-103,104 |
| include-upgrade-logs                | Include upgrade logs                        |
| <i>remote-path</i>                  | (Optional) remote-path                      |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# trigger techsupport switch switchId <switchId> include-upgrade-logs [remotename <remote-path>]
```

# trigger troubleshoot report

**trigger troubleshoot report [format <format>]**

**Description:** Trigger a report generation for a troubleshoot session

**Syntax:**

|               |                          |
|---------------|--------------------------|
| <i>format</i> | (Optional) Report format |
|---------------|--------------------------|

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# trigger troubleshoot report [format <format>]
```

# trigger vmware

**trigger vmware domain <name> vcenter <hostname|IP> pull-inventory**

**Description:** Trigger VMware vCenter inventory pull

**Syntax:**

|                |                        |
|----------------|------------------------|
| domain         | VMware domain          |
| <name>         | VMM VMware Domain name |
| vcenter        | VMware vCenter         |
| <hostname IP>  | vCenter hostname or IP |
| pull-inventory | Pull inventory         |

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# trigger vmware domain <name> vcenter <hostname|IP> pull-inventory
```



# troubleshoot epxt session atomiccounter

**troubleshoot epxt session <session\_name> atomiccounter**

**Description:** Start atomic counter of a troubleshoot session

**Syntax:**

|                     |              |
|---------------------|--------------|
| session             | session      |
| <i>session_name</i> | session name |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# troubleshoot epxt session <session_name> atomiccounter
```

# troubleshoot epxt session description

**troubleshoot epxt session <session\_name> description <LINE>**

**Description:** Set the description of a troubleshoot session

**Syntax:**

|                           |  |
|---------------------------|--|
| <code>session</code>      | session  |
| <code>session_name</code> | session name   |
| <code>LINE</code>         | Session description, use single quotes with spaces ex: 'my descr' (Max Size 128) |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# troubleshoot epxt session <session_name> description <LINE>
```

# troubleshoot epxt session latency

**troubleshoot epxt session <session\_name> latency [mode <mode>]**

**Description:** Start latency stats of a troubleshoot session

**Syntax:**

|                     |                 |
|---------------------|-----------------|
| <i>session</i>      | session         |
| <i>session_name</i> | session name    |
| <i>mode</i>         | (Optional) mode |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# troubleshoot epxt session <session_name> latency [mode <mode>]
```

## troubleshoot epxt session latestminutes

**troubleshoot epxt session <session\_name> latestminutes <minutes>**

**Description:** Set the time window in number of minutes from current time

**Syntax:**

|                     |  |
|---------------------|--|
| <i>session</i>      | session  |
| <i>session_name</i> | session name   |
| <i>minutes</i>      | number of minutes from current time. Number range from=5 to=1440 |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# troubleshoot epxt session <session_name> latestminutes <minutes>
```

# troubleshoot epext session monitor destination apic

**troubleshoot epext session <session\_name> monitor destination apic srcipprefix <sip/m> [analyser <aip>] [pref-erspan-version <preferspanver>] [erspan-id <id>] [spansrcports <pathep-list>]**

**Description:** Configure this APIC as monitor destination

**Syntax:**

|                      |   |
|----------------------|---|
| session              | session   |
| <i>session_name</i>  | session name                                      |
| destination          | destinaton  |
| srcipprefix          | srcipprefix                                       |
| <i>sip/m</i>         | Source IP address and subnet mask length          |
| <i>aip</i>           | (Optional) IP address of the host analyser        |
| <i>preferspanver</i> | (Optional) Preferred ERSPAN version               |
| <i>id</i>            | (Optional) erspan Id. Number range from=1 to=1023 |
| <i>pathep-list</i>   | (Optional) List of source fabricPathEp dn         |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# troubleshoot epext session <session_name> monitor destination apic srcipprefix
<sip/m> [analyser <aip>] [pref-erspan-version <preferspanver>] [erspan-id <id>] [spansrcports
<pathep-list>]
```

# troubleshoot epext session monitor destination prefdestgroup

**troubleshoot epext session** <session\_name> monitor destination prefdestgroup <destgroup\_name> [spansrcports <pathep-list>]

**Description:** Configure a predefined monitor destination

**Syntax:**

|                       |   |
|-----------------------|---|
| session               | session                                   |
| <i>session_name</i>   | session name                              |
| destination           | destinaton                                |
| <i>destgroup_name</i> | Destination group name                    |
| <i>pathep-list</i>    | (Optional) List of source fabricPathEp dn |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# troubleshoot epext session <session_name> monitor destination prefdestgroup
<destgroup_name> [spansrcports <pathep-list>]
```

# troubleshoot epext session monitor destination tenant

**troubleshoot epext session** <session\_name> **monitor destination tenant** <tn\_name> **application** <ap\_name> **epg** <epg\_name> **destip** <dip> **srcipprefix** <sip/m> [**pref-erspan-version** <preferspanver>] [**erspan-id** <id>] [**mtu** <NUMBER>] [**spansrcports** <pathep-list>]

**Description:** Configure tenant EPG as monitor destination

## Syntax:

|                      |  |
|----------------------|--|
| session              | session  |
| <i>session_name</i>  | session name                                       |
| destination          | destinaton   |
| <i>tn_name</i>       | tenant name  |
| application          | application  |
| <i>ap_name</i>       | application name                                   |
| epg                  | epg  |
| <i>epg_name</i>      | epg name   |
| destip               | destip   |
| <i>dip</i>           | destination IP address                             |
| srcipprefix          | srcipprefix  |
| <i>sip/m</i>         | source IP address and subnet mask length           |
| <i>preferspanver</i> | (Optional) Preferred ERSPAN version                |
| <i>id</i>            | (Optional) erspan Id. Number range from=1 to=1023  |
| <i>NUMBER</i>        | (Optional) mtu value. Number range from=64 to=9216 |
| <i>pathep-list</i>   | (Optional) List of source fabricPathEp dn          |

**Command Mode:** configure : Configuration Mode

## Command Path:

```
# configure [['terminal', 't']]
(config)# troubleshoot epext session <session_name> monitor destination tenant <tn_name>
application <ap_name> epg <epg_name> destip <dip> srcipprefix <sip/m> [pref-erspan-version
<preferspanver>] [erspan-id <id>] [mtu <NUMBER>] [spansrcports <pathep-list>]
```

# troubleshoot epxt session scheduler

**troubleshoot epxt session** <session\_name> **scheduler** <sch\_name> [format <format>]

**Description:** Associate a scheduler to the troubleshoot session

**Syntax:**

|                     |                           |
|---------------------|---------------------------|
| <i>session</i>      | session                   |
| <i>session_name</i> | session name              |
| <i>sch_name</i>     | scheduler name            |
| <i>format</i>       | (Optional) Reoport format |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# troubleshoot epxt session <session_name> scheduler <sch_name> [format <format>]
```



# troubleshoot epxt session srcextip destip tenant application

**troubleshoot epxt session** <session\_name> srcextip <sip> destip <dip> tenant <dtenant\_name> application <dapp\_name> epg <depg\_name>

**Description:** application

**Syntax:**

|                     |                         |
|---------------------|-------------------------|
| session             | session                 |
| <i>session_name</i> | session name            |
| <i>sip</i>          | external source IP      |
| destip              | destip                  |
| <i>dip</i>          | destination IP          |
| tenant              | tenant                  |
| <i>dtenant_name</i> | destination Tenant      |
| <i>dapp_name</i>    | destination Application |
| epg                 | epg                     |
| <i>depg_name</i>    | destination EPG         |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# troubleshoot epxt session <session_name> srcextip <sip> destip <dip> tenant
<dtenant_name> application <dapp_name> epg <depg_name>
```

# troubleshoot epxt session srcextip destip tenant vrf

**troubleshoot epxt session** <session\_name> srcextip <sip> destip <dip> tenant <dtenant\_name> vrf <dvrf\_name>

**Description:** vrf

**Syntax:**

|                     |                    |
|---------------------|--------------------|
| session             | session            |
| <i>session_name</i> | session name       |
| <i>sip</i>          | external source IP |
| destip              | destip             |
| <i>dip</i>          | destination IP     |
| tenant              | tenant             |
| <i>dtenant_name</i> | destination Tenant |
| <i>dvrf_name</i>    | destination VRF    |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# troubleshoot epxt session <session_name> srcextip <sip> destip <dip> tenant
<dtenant_name> vrf <dvrf_name>
```

# troubleshoot epxt session srcip tenant application epg destextip

**troubleshoot epxt session <session\_name> srcip <sip> tenant <stenant\_name> application <sapp\_name> epg <sepg\_name> destextip <dip>**

**Description:** External IP

**Syntax:**

|                     |                         |
|---------------------|-------------------------|
| session             | session                 |
| <i>session_name</i> | session name            |
| <i>sip</i>          | source IP               |
| tenant              | tenant                  |
| <i>stenant_name</i> | source Tenant           |
| <i>sapp_name</i>    | source Application      |
| epg                 | epg                     |
| <i>sepg_name</i>    | source EPG              |
| <i>dip</i>          | external destination IP |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# troubleshoot epxt session <session_name> srcip <sip> tenant <stenant_name>
application <sapp_name> epg <sepg_name> destextip <dip>
```

# troubleshoot epxt session srcip tenant vrf destextip

**troubleshoot epxt session** <session\_name> srcip <sip> tenant <stenant\_name> vrf <svrf\_name> destextip <dip>

**Description:** external IP

**Syntax:**

|                     |                         |
|---------------------|-------------------------|
| session             | session                 |
| <i>session_name</i> | session name            |
| <i>sip</i>          | source IP               |
| tenant              | tenant                  |
| <i>stenant_name</i> | source Tenant           |
| <i>svrf_name</i>    | source VRF              |
| <i>dip</i>          | external destination IP |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# troubleshoot epxt session <session_name> srcip <sip> tenant <stenant_name> vrf
<svrf_name> destextip <dip>
```

# troubleshoot epxt session starttime

**troubleshoot epxt session** <session\_name> starttime <start\_time> endtime <end\_time>

**Description:** Configure the start/end time of the session

**Syntax:**

|                     |  |
|---------------------|--|
| session             | session                                    |
| <i>session_name</i> | session name                               |
| <i>start_time</i>   | Start time (in YYYY-MM-DDTHH:MM:SS format) |
| endtime             | end time                                   |
| <i>end_time</i>     | End time (in YYYY-MM-DDTHH:MM:SS format)   |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# troubleshoot epxt session <session_name> starttime <start_time> endtime <end_time>
```

# troubleshoot epxt session traceroute

**troubleshoot epxt session <session\_name> traceroute**

**Description:** Start traceroute of a troubleshoot session

**Syntax:**

|                     |              |
|---------------------|--------------|
| session             | session      |
| <i>session_name</i> | session name |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# troubleshoot epxt session <session_name> traceroute
```

# troubleshoot epxt session traceroute protocol icmp

**troubleshoot epxt session <session\_name> traceroute protocol icmp**

**Description:** ICMP protocol

**Syntax:**

|                     |              |
|---------------------|--------------|
| session             | session      |
| <i>session_name</i> | session name |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# troubleshoot epxt session <session_name> traceroute protocol icmp
```

# troubleshoot epxt session traceroute protocol tcp

**troubleshoot epxt session** <session\_name> traceroute protocol tcp [destport <port>]

**Description:** TCP protocol

**Syntax:**

|                     |  |
|---------------------|--|
| <i>session</i>      | session  |
| <i>session_name</i> | session name   |
| <i>port</i>         | (Optional) TCP destination port number. Number range from=0 to=65535 |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# troubleshoot epxt session <session_name> traceroute protocol tcp [destport <port>]
```



# troubleshoot epxt session traceroute protocol udp

**troubleshoot epxt session** <session\_name> traceroute protocol udp [destport <port>]

**Description:** UDP protocol

**Syntax:**

|                     |  |
|---------------------|--|
| <i>session</i>      | session  |
| <i>session_name</i> | session name   |
| <i>port</i>         | (Optional) UDP destination port number. Number range from=0 to=65535 |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# troubleshoot epxt session <session_name> traceroute protocol udp [destport <port>]
```

# troubleshoot eptoe session atomiccounter

**troubleshoot eptoe session <session\_name> atomiccounter**

**Description:** Start atomic counter of a troubleshoot session

**Syntax:**

|                     |              |
|---------------------|--------------|
| session             | session      |
| <i>session_name</i> | session name |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# troubleshoot eptoe session <session_name> atomiccounter
```

# troubleshoot eptoep session description

**troubleshoot eptoep session <session\_name> description <LINE>**

**Description:** Set the description of a troubleshoot session

**Syntax:**

|                     |  |
|---------------------|--|
| <i>session</i>      | session  |
| <i>session_name</i> | session name   |
| <i>LINE</i>         | Session description, use single quotes with spaces ex: 'my descr' (Max Size 128) |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# troubleshoot eptoep session <session_name> description <LINE>
```

# troubleshoot eptoe session latency

**troubleshoot eptoe session <session\_name> latency [mode <mode>]**

**Description:** Start latency stats of a troubleshoot session

**Syntax:**

|                     |                 |
|---------------------|-----------------|
| <i>session</i>      | session         |
| <i>session_name</i> | session name    |
| <i>mode</i>         | (Optional) mode |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# troubleshoot eptoe session <session_name> latency [mode <mode>]
```

# troubleshoot eptoe session latestminutes

**troubleshoot eptoe session <session\_name> latestminutes <minutes>**

**Description:** Set the time window in number of minutes from current time

**Syntax:**

|                     |  |
|---------------------|--|
| <i>session</i>      | session  |
| <i>session_name</i> | session name   |
| <i>minutes</i>      | number of minutes from current time. Number range from=5 to=1440 |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# troubleshoot eptoe session <session_name> latestminutes <minutes>
```

## troubleshoot eptoep session monitor destination apic

**troubleshoot eptoep session** <session\_name> **monitor destination apic srcipprefix** <sip/m> [**analyser** <aip>] [**pref-erspan-version** <preferspanver>] [**erspan-id** <id>] [**spansrcports** <pathep-list>]

**Description:** Configure this APIC as monitor destination

### Syntax:

|                      |   |
|----------------------|---|
| session              | session   |
| <i>session_name</i>  | session name                                      |
| destination          | destinaton  |
| srcipprefix          | srcipprefix                                       |
| <i>sip/m</i>         | Source IP address and subnet mask length          |
| <i>aip</i>           | (Optional) IP address of the host analyser        |
| <i>preferspanver</i> | (Optional) Preferred ERSPAN version               |
| <i>id</i>            | (Optional) erspan Id. Number range from=1 to=1023 |
| <i>pathep-list</i>   | (Optional) List of source fabricPathE p dn        |

**Command Mode:** configure : Configuration Mode

### Command Path:

```
# configure [['terminal', 't']]
(config)# troubleshoot eptoep session <session_name> monitor destination apic srcipprefix
<sip/m> [analyser <aip>] [pref-erspan-version <preferspanver>] [erspan-id <id>] [spansrcports
<pathep-list>]
```

# troubleshoot eptoe session monitor destination predestgroup

**troubleshoot eptoe session <session\_name> monitor destination predestgroup <destgroup\_name> [spansrcports <pathep-list>]**

**Description:** Configure a predefined monitor destination

**Syntax:**

|                             |   |
|-----------------------------|---|
| <code>session</code>        | session                                   |
| <code>session_name</code>   | session name                              |
| <code>destination</code>    | destinaton                                |
| <code>destgroup_name</code> | Destination group name                    |
| <code>pathep-list</code>    | (Optional) List of source fabricPathEp dn |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# troubleshoot eptoe session <session_name> monitor destination predestgroup
<destgroup_name> [spansrcports <pathep-list>]
```

# troubleshoot eptoe session monitor destination tenant

**troubleshoot eptoe session <session\_name> monitor destination tenant <tn\_name> application <ap\_name> epg <epg\_name> destip <dip> srcipprefix <sip/m> [pref-erspan-version <preferspanver>] [erspan-id <id>] [mtu <NUMBER>] [spansrcports <pathep-list>]**

**Description:** Configure tenant EPG as monitor destination

## Syntax:

|                      |  |
|----------------------|--|
| session              | session  |
| <i>session_name</i>  | session name                                       |
| destination          | destinaton   |
| <i>tn_name</i>       | tenant name  |
| application          | application  |
| <i>ap_name</i>       | application name                                   |
| epg                  | epg  |
| <i>epg_name</i>      | epg name   |
| destip               | destip   |
| <i>dip</i>           | destination IP address                             |
| srcipprefix          | srcipprefix  |
| <i>sip/m</i>         | source IP address and subnet mask lenght           |
| <i>preferspanver</i> | (Optional) Preferred ERSPAN version                |
| <i>id</i>            | (Optional) erspan Id. Number range from=1 to=1023  |
| <i>NUMBER</i>        | (Optional) mtu value. Number range from=64 to=9216 |
| <i>pathep-list</i>   | (Optional) List of source fabricPathEp dn          |

**Command Mode:** configure : Configuration Mode

## Command Path:

```
# configure [['terminal', 't']]
(config)# troubleshoot eptoe session <session_name> monitor destination tenant <tn_name>
application <ap_name> epg <epg_name> destip <dip> srcipprefix <sip/m> [pref-erspan-version
<preferspanver>] [erspan-id <id>] [mtu <NUMBER>] [spansrcports <pathep-list>]
```



# troubleshoot eptoe session scheduler

**troubleshoot eptoe session <session\_name> scheduler <sch\_name> [format <format>]**

**Description:** Associate a scheduler to the troubleshoot session

**Syntax:**

|                     |                          |
|---------------------|--------------------------|
| <i>session</i>      | session                  |
| <i>session_name</i> | session name             |
| <i>sch_name</i>     | scheduler name           |
| <i>format</i>       | (Optional) Report format |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# troubleshoot eptoe session <session_name> scheduler <sch_name> [format <format>]
```

# troubleshoot eptoep session srcip tenant application epg destip tenant application

**troubleshoot eptoep session** <session\_name> srcip <sip> tenant <stenant\_name> application <sapp\_name> epg <sepg\_name> destip <dip> tenant <dtenant\_name> application <dapp\_name> epg <depg\_name>

**Description:** application

**Syntax:**

|                     |                         |
|---------------------|-------------------------|
| session             | session                 |
| <i>session_name</i> | session name            |
| <i>sip</i>          | source IP               |
| tenant              | tenant                  |
| <i>stenant_name</i> | source Tenant           |
| <i>sapp_name</i>    | source Application      |
| epg                 | epg                     |
| <i>sepg_name</i>    | source EPG              |
| destip              | destip                  |
| <i>dip</i>          | destination IP          |
| tenant              | tenant                  |
| <i>dtenant_name</i> | destination Tenant      |
| <i>dapp_name</i>    | destination Application |
| epg                 | epg                     |
| <i>depg_name</i>    | destination EPG         |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# troubleshoot eptoep session <session_name> srcip <sip> tenant <stenant_name>
application <sapp_name> epg <sepg_name> destip <dip> tenant <dtenant_name> application
<dapp_name> epg <depg_name>
```

# troubleshoot eptoe session srcip tenant application epg destip tenant vrf

**troubleshoot eptoe session** <session\_name> srcip <sip> tenant <stenant\_name> application <sapp\_name> epg <sepg\_name> destip <dip> tenant <dtenant\_name> vrf <dvrf\_name>

**Description:** vrf

**Syntax:**

|                     |                    |
|---------------------|--------------------|
| session             | session            |
| <i>session_name</i> | session name       |
| <i>sip</i>          | source IP          |
| tenant              | tenant             |
| <i>stenant_name</i> | source Tenant      |
| <i>sapp_name</i>    | source Application |
| epg                 | epg                |
| <i>sepg_name</i>    | source EPG         |
| destip              | destip             |
| <i>dip</i>          | destination IP     |
| tenant              | tenant             |
| <i>dtenant_name</i> | destination Tenant |
| <i>dvrf_name</i>    | destination VRF    |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# troubleshoot eptoe session <session_name> srcip <sip> tenant <stenant_name>
application <sapp_name> epg <sepg_name> destip <dip> tenant <dtenant_name> vrf <dvrf_name>
```

# troubleshoot eptoe session srcip tenant vrf destip tenant application

**troubleshoot eptoe session** <session\_name> srcip <sip> tenant <stenant\_name> vrf <svrf\_name> destip <dip> tenant <dtenant\_name> application <dapp\_name> epg <depg\_name>

**Description:** application

**Syntax:**

|                     |                         |
|---------------------|-------------------------|
| session             | session                 |
| <i>session_name</i> | session name            |
| <i>sip</i>          | source IP               |
| tenant              | tenant                  |
| <i>stenant_name</i> | source Tenant           |
| <i>svrf_name</i>    | source VRF              |
| destip              | destip                  |
| <i>dip</i>          | destination IP          |
| tenant              | tenant                  |
| <i>dtenant_name</i> | destination Tenant      |
| <i>dapp_name</i>    | destination Application |
| epg                 | epg                     |
| <i>depg_name</i>    | destination EPG         |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# troubleshoot eptoe session <session_name> srcip <sip> tenant <stenant_name> vrf
<svrf_name> destip <dip> tenant <dtenant_name> application <dapp_name> epg <depg_name>
```

# troubleshoot eptoe session srcip tenant vrf destip tenant vrf

**troubleshoot eptoe session** <session\_name> srcip <sip> tenant <stenant\_name> vrf <svrf\_name> destip <dip> tenant <dtenant\_name> vrf <WORD>

**Description:** vrf

**Syntax:**

|                     |                    |
|---------------------|--------------------|
| session             | session            |
| <i>session_name</i> | session name       |
| <i>sip</i>          | source IP          |
| tenant              | tenant             |
| <i>stenant_name</i> | source Tenant      |
| <i>svrf_name</i>    | source VRF         |
| destip              | destip             |
| <i>dip</i>          | destination IP     |
| tenant              | tenant             |
| <i>dtenant_name</i> | destination Tenant |
| <i>WORD</i>         | destination VRF    |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# troubleshoot eptoe session <session_name> srcip <sip> tenant <stenant_name> vrf
<svrf_name> destip <dip> tenant <dtenant_name> vrf <WORD>
```

# troubleshoot eptoe session srcmac tenant application epg destmac tenant application

```
troubleshoot eptoe session <session_name> srcmac
E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE tenant <stenant_name> application <sapp_name>
epg <sepg_name> destmac E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE tenant <dtenant_name>
application <dapp_name> epg <depg_name>
```

**Description:** application

**Syntax:**

|                          |                         |
|--------------------------|-------------------------|
| session                  | session                 |
| <i>session_name</i>      | session name            |
| <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)  |
| tenant                   | tenant                  |
| <i>stenant_name</i>      | source Tenant           |
| <i>sapp_name</i>         | source Application      |
| epg                      | epg                     |
| <i>sepg_name</i>         | source EPG              |
| destmac                  | destmac                 |
| <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)  |
| tenant                   | tenant                  |
| <i>dtenant_name</i>      | destination Tenant      |
| <i>dapp_name</i>         | destination Application |
| epg                      | epg                     |
| <i>depg_name</i>         | destination EPG         |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# troubleshoot eptoe session <session_name> srcmac
E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE tenant <stenant_name> application
<sapp_name> epg <sepg_name> destmac E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE
tenant <dtenant_name> application <dapp_name> epg <depg_name>
```

# troubleshoot eptoe session srcmac tenant application epg destmac tenant vrf

**troubleshoot eptoe session <session\_name> srcmac E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE tenant <stenant\_name> application <sapp\_name> epg <sepg\_name> destmac E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE tenant <dtenant\_name> vrf <dvrif\_name>**

**Description:** vrf

**Syntax:**

|                          |                        |
|--------------------------|------------------------|
| session                  | session                |
| <i>session_name</i>      | session name           |
| <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) |
| tenant                   | tenant                 |
| <i>stenant_name</i>      | source Tenant          |
| <i>sapp_name</i>         | source Application     |
| epg                      | epg                    |
| <i>sepg_name</i>         | source EPG             |
| destmac                  | destmac                |
| <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) |
| tenant                   | tenant                 |
| <i>dtenant_name</i>      | destination Tenant     |
| <i>dvrif_name</i>        | destination VRF        |

**Command Mode:** configure : Configuration Mode

**Command Path:**



```
# configure [['terminal', 't']]
(config)# troubleshoot eptoe session <session_name> srcmac
E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE tenant <stenant_name> application
<sapp_name> epg <sepg_name> destmac E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE
tenant <dtenant_name> vrf <dvrif_name>
```

# troubleshoot eptoe session srcmac tenant vrf destmac tenant application

```
troubleshoot eptoe session <session_name> srcmac
E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE tenant <tenant_name> vrf <svrf_name> destmac
E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE tenant <dtenant_name> application <dapp_name>
epg <depg_name>
```

**Description:** application

**Syntax:**

|                          |                         |
|--------------------------|-------------------------|
| session                  | session                 |
| <i>session_name</i>      | session name            |
| <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)  |
| tenant                   | tenant                  |
| <i>tenant_name</i>       | source Tenant           |
| <i>svrf_name</i>         | source VRF              |
| destmac                  | destmac                 |
| <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)  |
| tenant                   | tenant                  |
| <i>dtenant_name</i>      | destination Tenant      |
| <i>dapp_name</i>         | destination Application |
| epg                      | epg                     |
| <i>depg_name</i>         | destination EPG         |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# troubleshoot eptoe session <session_name> srcmac
E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE tenant <tenant_name> vrf <svrf_name>
  destmac E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE tenant <dtenant_name>
application <dapp_name> epg <depg_name>
```

# troubleshoot eptoe session srcmac tenant vrf destmac tenant vrf

**troubleshoot eptoe session <session\_name> srcmac**

**E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE tenant <stenant\_name> vrf <svrf\_name> destmac**

**E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE tenant <dtenant\_name> vrf <dvrif\_name>**

**Description:** vrf

**Syntax:**

|                          |                        |
|--------------------------|------------------------|
| session                  | session                |
| <i>session_name</i>      | session name           |
| <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) |
| tenant                   | tenant                 |
| <i>stenant_name</i>      | source Tenant          |
| <i>svrf_name</i>         | source VRF             |
| destmac                  | destmac                |
| <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) |
| tenant                   | tenant                 |
| <i>dtenant_name</i>      | destination Tenant     |
| <i>dvrif_name</i>        | destination VRF        |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# troubleshoot eptoe session <session_name> srcmac
E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE tenant <stenant_name> vrf <svrf_name>
destmac E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE tenant <dtenant_name> vrf
```

<dvrif\_name>

# troubleshoot eptoep session starttime

**troubleshoot eptoep session <session\_name> starttime <start\_time> endtime <end\_time>**

**Description:** Configure the start/end time of the session

**Syntax:**

|                     |  |
|---------------------|--|
| session             | session                                    |
| <i>session_name</i> | session name                               |
| <i>start_time</i>   | Start time (in YYYY-MM-DDTHH:MM:SS format) |
| endtime             | end time                                   |
| <i>end_time</i>     | End time (in YYYY-MM-DDTHH:MM:SS format)   |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# troubleshoot eptoep session <session_name> starttime <start_time> endtime <end_time>
```

# troubleshoot eptoe session traceroute

**troubleshoot eptoe session <session\_name> traceroute**

**Description:** Start traceroute of a troubleshoot session

**Syntax:**

|                     |              |
|---------------------|--------------|
| session             | session      |
| <i>session_name</i> | session name |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# troubleshoot eptoe session <session_name> traceroute
```

# troubleshoot eptoe session traceroute protocol icmp

**troubleshoot eptoe session <session\_name> traceroute protocol icmp**

**Description:** ICMP protocol

**Syntax:**

|                     |              |
|---------------------|--------------|
| session             | session      |
| <i>session_name</i> | session name |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# troubleshoot eptoe session <session_name> traceroute protocol icmp
```



# troubleshoot eptoep session traceroute protocol tcp

**troubleshoot eptoep session <session\_name> traceroute protocol tcp [destport <port>]**

**Description:** TCP protocol

**Syntax:**

|                     |  |
|---------------------|--|
| <i>session</i>      | session  |
| <i>session_name</i> | session name   |
| <i>port</i>         | (Optional) TCP destination port number. Number range from=0 to=65535 |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# troubleshoot eptoep session <session_name> traceroute protocol tcp [destport
<port>]
```

# troubleshoot eptoe session traceroute protocol udp

**troubleshoot eptoe session <session\_name> traceroute protocol udp [destport <port>]**

**Description:** UDP protocol

**Syntax:**

|                     |  |
|---------------------|--|
| <i>session</i>      | session  |
| <i>session_name</i> | session name   |
| <i>port</i>         | (Optional) UDP destination port number. Number range from=0 to=65535 |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# troubleshoot eptoe session <session_name> traceroute protocol udp [destport
<port>]
```

# troubleshoot extext session atomiccounter

**troubleshoot extext session <session\_name> atomiccounter**

**Description:** Start atomic counter of a troubleshoot session

**Syntax:**

|                     |              |
|---------------------|--------------|
| session             | session      |
| <i>session_name</i> | session name |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# troubleshoot extext session <session_name> atomiccounter
```

# troubleshoot extext session description

**troubleshoot extext session <session\_name> description <LINE>**

**Description:** Set the description of a troubleshoot session

**Syntax:**

|                           |  |
|---------------------------|--|
| <code>session</code>      | session  |
| <code>session_name</code> | session name   |
| <code>LINE</code>         | Session description, use single quotes with spaces ex: 'my descr' (Max Size 128) |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# troubleshoot extext session <session_name> description <LINE>
```

# troubleshoot extext session latency

**troubleshoot extext session <session\_name> latency [mode <mode>]**

**Description:** Start latency stats of a troubleshoot session

**Syntax:**

|                     |                 |
|---------------------|-----------------|
| <i>session</i>      | session         |
| <i>session_name</i> | session name    |
| <i>mode</i>         | (Optional) mode |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# troubleshoot extext session <session_name> latency [mode <mode>]
```

## troubleshoot extext session latestminutes

**troubleshoot extext session <session\_name> latestminutes <minutes>**

**Description:** Set the time window in number of minutes from current time

**Syntax:**

|                     |  |
|---------------------|--|
| <i>session</i>      | session  |
| <i>session_name</i> | session name   |
| <i>minutes</i>      | number of minutes from current time. Number range from=5 to=1440 |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# troubleshoot extext session <session_name> latestminutes <minutes>
```

# troubleshoot extext session monitor destination apic

**troubleshoot extext session <session\_name> monitor destination apic srcipprefix <sip/m> [analyser <aip>] [erspan-id <id>] [spansrcports <pathep-list>]**

**Description:** Configure this APIC as monitor destination

**Syntax:**

|                     |   |
|---------------------|---|
| session             | session   |
| <i>session_name</i> | session name                                      |
| destination         | destinaton  |
| srcipprefix         | srcipprefix                                       |
| <i>sip/m</i>        | Source IP address and subnet mask length          |
| <i>aip</i>          | (Optional) IP address of the host analyser        |
| <i>id</i>           | (Optional) erspan Id. Number range from=1 to=1023 |
| <i>pathep-list</i>  | (Optional) List of source fabricPathEp dn         |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# troubleshoot extext session <session_name> monitor destination apic srcipprefix
<sip/m> [analyser <aip>] [erspan-id <id>] [spansrcports <pathep-list>]
```

# troubleshoot extext session monitor destination predestgroup

**troubleshoot extext session <session\_name> monitor destination predestgroup <destgroup\_name> [spansrcports <pathep-list>]**

**Description:** Configure a predefined monitor destination

**Syntax:**

|                       |   |
|-----------------------|---|
| session               | session                                   |
| <i>session_name</i>   | session name                              |
| destination           | destinaton                                |
| <i>destgroup_name</i> | Destination group name                    |
| <i>pathep-list</i>    | (Optional) List of source fabricPathEp dn |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# troubleshoot extext session <session_name> monitor destination predestgroup
<destgroup_name> [spansrcports <pathep-list>]
```



# troubleshoot extext session monitor destination tenant

**troubleshoot extext session** <session\_name> monitor destination tenant <tn\_name> application <ap\_name> epg <epg\_name> destip <dip> srcipprefix <sip/m> [erspan-id <id>] [spansrcports <pathep-list>]

**Description:** Configure tenant EPG as monitor destination

**Syntax:**

|                     |   |
|---------------------|---|
| session             | session   |
| <i>session_name</i> | session name                                      |
| destination         | destinaton  |
| <i>tn_name</i>      | tenant name                                       |
| application         | application                                       |
| <i>ap_name</i>      | application name                                  |
| epg                 | epg   |
| <i>epg_name</i>     | epg name  |
| destip              | destip  |
| <i>dip</i>          | destination IP address                            |
| srcipprefix         | srcipprefix                                       |
| <i>sip/m</i>        | source IP address and subnet mask length          |
| <i>id</i>           | (Optional) erspan Id. Number range from=1 to=1023 |
| <i>pathep-list</i>  | (Optional) List of source fabricPathEp dn         |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# troubleshoot extext session <session_name> monitor destination tenant <tn_name>
application <ap_name> epg <epg_name> destip <dip> srcipprefix <sip/m> [erspan-id <id>]
[spansrcports <pathep-list>]
```

# troubleshoot extext session scheduler

**troubleshoot extext session** <session\_name> scheduler <sch\_name> [format <format>]

**Description:** Associate a scheduler to the troubleshoot session

**Syntax:**

|                     |                           |
|---------------------|---------------------------|
| <i>session</i>      | session                   |
| <i>session_name</i> | session name              |
| <i>sch_name</i>     | scheduler name            |
| <i>format</i>       | (Optional) Reoport format |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# troubleshoot extext session <session_name> scheduler <sch_name> [format <format>]
```

# troubleshoot extext session srcextip

**troubleshoot extext session <session\_name> srcextip <srcextip> tenant <stenant\_name> l3out <l3out\_name> destextip <dstextip> tenant <dtenant\_name> l3out <l3out\_name>**

**Description:** Create an extext troubleshoot session with an external IP as source

**Syntax:**

|                     |                                       |
|---------------------|---------------------------------------|
| session             | session                               |
| <i>session_name</i> | session name                          |
| < <i>srcextip</i> > | external source IP                    |
| tenant              | tenant                                |
| <i>stenant_name</i> | source tenant name (Max Size 63)      |
| l3out               | l3out                                 |
| <i>l3out_name</i>   | source L3out (Max size 64             |
| destextip           | external destination IP               |
| < <i>dstextip</i> > | external source IP                    |
| tenant              | tenant                                |
| <i>dtenant_name</i> | destination tenant name (Max Size 63) |
| l3out               | l3out                                 |
| <i>l3out_name</i>   | destination L3out (Max size 64        |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# troubleshoot extext session <session_name> srcextip <srcextip> tenant <stenant_name>
l3out <l3out_name> destextip <dstextip> tenant <dtenant_name> l3out <l3out_name>
```

## troubleshoot extext session starttime

**troubleshoot extext session** <session\_name> starttime <start\_time> endtime <end\_time>

**Description:** Configure the start/end time of the session

**Syntax:**

|                     |  |
|---------------------|--|
| session             | session                                    |
| <i>session_name</i> | session name                               |
| <i>start_time</i>   | Start time (in YYYY-MM-DDTHH:MM:SS format) |
| endtime             | end time                                   |
| <i>end_time</i>     | End time (in YYYY-MM-DDTHH:MM:SS format)   |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# troubleshoot extext session <session_name> starttime <start_time> endtime <end_time>
```

# troubleshoot extext session traceroute

**troubleshoot extext session <session\_name> traceroute**

**Description:** Start traceroute of a troubleshoot session

**Syntax:**

|                     |              |
|---------------------|--------------|
| session             | session      |
| <i>session_name</i> | session name |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# troubleshoot extext session <session_name> traceroute
```

# troubleshoot extext session traceroute protocol icmp

**troubleshoot extext session <session\_name> traceroute protocol icmp**

**Description:** ICMP protocol

**Syntax:**

|                     |              |
|---------------------|--------------|
| session             | session      |
| <i>session_name</i> | session name |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# troubleshoot extext session <session_name> traceroute protocol icmp
```

# troubleshoot extext session traceroute protocol tcp

**troubleshoot extext session <session\_name> traceroute protocol tcp [destport <port>]**

**Description:** TCP protocol

**Syntax:**

|                     |  |
|---------------------|--|
| <i>session</i>      | session  |
| <i>session_name</i> | session name   |
| <i>port</i>         | (Optional) TCP destination port number. Number range from=0 to=65535 |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# troubleshoot extext session <session_name> traceroute protocol tcp [destport
<port>]
```

# troubleshoot extext session traceroute protocol udp

**troubleshoot extext session <session\_name> traceroute protocol udp [destport <port>]**

**Description:** UDP protocol

**Syntax:**

|                           |  |
|---------------------------|--|
| <code>session</code>      | session  |
| <code>session_name</code> | session name   |
| <code>port</code>         | (Optional) UDP destination port number. Number range from=0 to=65535 |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# troubleshoot extext session <session_name> traceroute protocol udp [destport
<port>]
```



# trunk-portgroup

**trunk-portgroup <arg>**

**Description:** Configure a trunk port group in the VMWare domain

**Syntax:**

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

**Command Mode:** vmware-domain : Create a VMM VMWare Domain

**Command Path:**

```
# configure [['terminal', 't']]
(config)# vmware-domain <WORD> [delimiter <WORD>] [access-mode <access-mode>]
(config-vmware)# trunk-portgroup <>
```

# trust-control

**trust-control** <WORD>

**Description:** Configuration for trust control policy

**Syntax:**

|             |                                       |
|-------------|---------------------------------------|
| <i>WORD</i> | IPv6 trust control name (Max Size 64) |
|-------------|---------------------------------------|

**Command Mode:** first-hop-security : Configuration for first hop security

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# first-hop-security
(config-tenant-fhs)# trust-control <WORD>
```

# trusted-key

**trusted-key <id>**

**Description:** Configure trusted for ntp authentication key

**Syntax:**

|           |  |
|-----------|--|
| <i>id</i> | Id for the trusted key. Number range from=1 to=65535 |
|-----------|--|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# pod <NUMBER>
(config-pod)# ntp
(config-ntp)# trusted-key <id>
```

**trusted-key <id>**

**Description:** Configure trusted for ntp authentication key

**Syntax:**

|           |  |
|-----------|--|
| <i>id</i> | Id for the trusted key. Number range from=1 to=65535 |
|-----------|--|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template ntp-fabric <WORD>
(config-template-ntp-fabric)# trusted-key <id>
```

# try

## **try interface|node|epg|vm|vm-port-group scope**

**Description:** Show deployment related changes

### **Syntax:**

|               |                        |
|---------------|------------------------|
| interface     | Interface              |
| node          | Nodes using the policy |
| epg           | Endpoint Group         |
| vm            | Virtual Machine        |
| vm-port-group | Port Group             |
| <i>scope</i>  | command scope          |

**Command Mode:** configure : Configuration Mode

### **Command Path:**

```
# configure [['terminal', 't']]
(config)# try interface|node|epg|vm|vm-port-group scope
```



## U Commands

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- [ui-idle-timeout-seconds](#), on page 2636
- [unicast](#), on page 2637
- [update-source ethernet](#), on page 2638
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- [use-vrf](#), on page 2644
- [user](#), on page 2645
- [username](#), on page 2646

# ui-idle-timeout-seconds

**ui-idle-timeout-seconds** <NUMBER>

**Description:** Set maximum GUI idle duration before requiring login refresh

**Syntax:**

|            |   |
|------------|---|
| <60-65525> | Set maximum GUI idle duration before requiring login refresh. Number range from=60 to=65525 |
|------------|---|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# crypto webtoken
(config-webtoken)# ui-idle-timeout-seconds <NUMBER>
```

# unicast

## unicast routing

**Description:** Instruct the fabric to route based on IP

**Syntax:**

|         |                         |
|---------|-------------------------|
| routing | Unicast routing setting |
|---------|-------------------------|

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

**Command Path:**

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

# update-source ethernet

**update-source ethernet <interfaceRange>**

**Description:** Source Ethernet Interface

**Syntax:**

|                  |                  |
|------------------|------------------|
| <interfaceRange> | <interfaceRange> |
|------------------|------------------|

**Command Mode:** neighbor : Configure a BGP neighbor

**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)# update-source ethernet <interfaceRange>
```

**update-source ethernet <interfaceRange>**

**Description:** Source Ethernet Interface

**Syntax:**

|                  |                  |
|------------------|------------------|
| <interfaceRange> | <interfaceRange> |
|------------------|------------------|

**Command Mode:** neighbor : Configure a BGP neighbor

**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)# update-source ethernet <interfaceRange>
```



# update-source loopback

## update-source loopback <A.B.C.D>

**Description:** Source Loopback Interface

**Syntax:**

|                |                                   |
|----------------|-----------------------------------|
| <i>A.B.C.D</i> | IPv4 or IPv6 Address without mask |
|----------------|-----------------------------------|

**Command Mode:** neighbor : Configure a BGP neighbor

**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)# update-source loopback <A.B.C.D>
```

## update-source loopback <A.B.C.D>

**Description:** Source Loopback Interface

**Syntax:**

|                |                                   |
|----------------|-----------------------------------|
| <i>A.B.C.D</i> | IPv4 or IPv6 Address without mask |
|----------------|-----------------------------------|

**Command Mode:** neighbor : Configure a BGP neighbor

**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)# update-source loopback <A.B.C.D>
```

# update-source vlan

## update-source vlan <vlan>

**Description:** Source Vlan Interface

**Syntax:**

|        |         |
|--------|---------|
| <vlan> | Vlan ID |
|--------|---------|

**Command Mode:** neighbor : Configure a BGP neighbor

**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)# update-source vlan <vlan>
```

## update-source vlan <vlan>

**Description:** Source Vlan Interface

**Syntax:**

|        |         |
|--------|---------|
| <vlan> | Vlan ID |
|--------|---------|

**Command Mode:** neighbor : Configure a BGP neighbor

**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)# update-source vlan <vlan>
```

# usage

**usage** <resource-type>

**Description:** Show deployment usage

**Syntax:**

|                      |                                    |
|----------------------|------------------------------------|
| <i>resource-type</i> | Resource type consuming the policy |
|----------------------|------------------------------------|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# usage <resource-type>
```

# use-bia

## use-bia

**Description:** HSRP uses interfaces burned in address

**Command Mode:** template hsrp interface-policy : Configure HSRP Interface policy templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template hsrp interface-policy <WORD> tenant <WORD>
(config-template-hsrp-if-pol)# use-bia
```

## use-bia

**Description:** HSRP uses interfaces burned in address

**Command Mode:** template hsrp interface-policy : Configure HSRP Interface policy templates

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# template hsrp interface-policy <WORD> tenant <WORD>
(config-template-hsrp-if-pol)# use-bia
```

# use-keyring

**use-keyring <keyring-name>**

**Description:** Use specified keyring for the HTTPS Server SSL certificate

**Syntax:**

|                     |                            |
|---------------------|----------------------------|
| <i>keyring-name</i> | Keyring name (Max Size 64) |
|---------------------|----------------------------|

**Command Mode:** https : HTTPS communication policy group

**Command Path:**

```
# configure [['terminal', 't']]
(config)# comm-policy <WORD>
(config-comm-policy)# https
(config-https)# use-keyring <keyring-name>
```

# use-vrf

**use-vrf <arg>**

**Description:** Configure the management vrf for dns servers

**Syntax:**

|            |                          |
|------------|--------------------------|
| <i>arg</i> | Configure management vrf |
|------------|--------------------------|

**Command Mode:** dns : Configure default dns policy

**Command Path:**

```
# configure [['terminal', 't']]
(config)# dns
(config-dns)# use-vrf <>
```

# user

## user <WORD>

**Description:** Set the remote path user name and password

**Syntax:**

|             |           |
|-------------|-----------|
| <i>WORD</i> | User name |
|-------------|-----------|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# remote path <WORD>
(config-remote)# user <WORD>
```

## user <user-name>

**Description:** User Name

**Syntax:**

|                  |           |
|------------------|-----------|
| <i>user-name</i> | User Name |
|------------------|-----------|

**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)# user <user-name>
```

# username

## username <WORD>

**Description:** Create a locally-authenticated user account

**Syntax:**

|             |                         |
|-------------|-------------------------|
| <i>WORD</i> | User name (Max Size 32) |
|-------------|-------------------------|

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# username <WORD>
```

## username <WORD>

**Description:** Configure a user account for the vCenter

**Syntax:**

|             |                          |
|-------------|--------------------------|
| <i>WORD</i> | Username for the account |
|-------------|--------------------------|

**Command Mode:** vcenter : Configure a vCenter in the VMware domain

**Command Path:**

```
# configure [['terminal', 't']]
(config)# vmware-domain <WORD> [delimiter <WORD>] [access-mode <access-mode>]
(config-vmware)# vcenter <> datacenter <WORD> [dvs-version <>]
(config-vmware-vc)# username <WORD>
```

## username <WORD>

**Description:** Configure a user account for the RHEV controller

**Syntax:**

|             |                          |
|-------------|--------------------------|
| <i>WORD</i> | Username for the account |
|-------------|--------------------------|

**Command Mode:** rhev : Configure an RHEV controller in the Redhat domain

**Command Path:**

```
# configure [['terminal', 't']]
(config)# rhev-domain <WORD> [delimiter <WORD>]
(config-redhat)# rhev <> datacenter <WORD>
(config-redhat-rhev)# username <WORD>
```





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# vcenter

**vcenter** <arg> datacenter <WORD> [dvs-version <arg>]

**Description:** Configure a vCenter in the VMware domain

**Syntax:**

|             |                 |
|-------------|-----------------|
| <i>arg</i>  |                 |
| datacenter  | Datacenter Name |
| <i>WORD</i> | Datacenter Name |
| <i>arg</i>  | (Optional)      |

**Command Mode:** vmware-domain : Create a VMM VMWare Domain

**Command Path:**

```
# configure [['terminal', 't']]
(config)# vmware-domain <WORD> [delimiter <WORD>] [access-mode <access-mode>]
(config-vmware)# vcenter <> datacenter <WORD> [dvs-version <>]
```

# vemcmd clear fhs

## vemcmd clear fhs

**Description:** Clear FHS stats

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>  
(exec-ave)# vemcmd clear fhs
```

## vemcmd clear fhs

**Description:** Clear FHS stats

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>  
(exec-ave-ng)# vemcmd clear fhs
```

## vemcmd clear fhs

**Description:** Clear FHS stats

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>  
(exec-avs)# vemcmd clear fhs
```

## vemcmd clear fhs dai

### vemcmd clear fhs dai stats <vlan-id>

**Description:** Clear FHS stats

**Syntax:**

|                |   |
|----------------|---|
| stats          | clear FHS stats   |
| <i>vlan-id</i> | Clear FHS DAI stats <vlan-id>. Number range from=0 to=9223372036854775807 |

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>
(exec-ave)# vemcmd clear fhs dai stats <vlan-id>
```

### vemcmd clear fhs dai stats <vlan-id>

**Description:** Clear FHS stats

**Syntax:**

|                |   |
|----------------|---|
| stats          | clear FHS stats   |
| <i>vlan-id</i> | Clear FHS DAI stats <vlan-id>. Number range from=0 to=9223372036854775807 |

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>
(exec-ave-ng)# vemcmd clear fhs dai stats <vlan-id>
```

### vemcmd clear fhs dai stats <vlan-id>

**Description:** Clear FHS stats

**Syntax:**

|                |   |
|----------------|---|
| stats          | clear FHS stats   |
| <i>vlan-id</i> | Clear FHS DAI stats <vlan-id>. Number range from=0 to=9223372036854775807 |

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>  
(exec-avs)# vemcmd clear fhs dai stats <vlan-id>
```

# vemcmd clear fhs dhcps

## vemcmd clear fhs dhcps stats

**Description:** Clear FHS DHCP's stats

**Syntax:**

|       |                        |
|-------|------------------------|
| stats | clear FHS DHCP's stats |
|-------|------------------------|

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>
(exec-ave)# vemcmd clear fhs dhcps stats
```

## vemcmd clear fhs dhcps stats

**Description:** Clear FHS DHCP's stats

**Syntax:**

|       |                        |
|-------|------------------------|
| stats | clear FHS DHCP's stats |
|-------|------------------------|

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>
(exec-ave-ng)# vemcmd clear fhs dhcps stats
```

## vemcmd clear fhs dhcps stats

**Description:** Clear FHS DHCP's stats

**Syntax:**

|       |                        |
|-------|------------------------|
| stats | clear FHS DHCP's stats |
|-------|------------------------|

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>
(exec-avs)# vemcmd clear fhs dhcps stats
```



# vemcmd clear fhs stats

## vemcmd clear fhs stats all

**Description:** Clear FHS stats

**Syntax:**

|     |                 |
|-----|-----------------|
| all | clear FHS stats |
|-----|-----------------|

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>
(exec-ave)# vemcmd clear fhs stats all
```

## vemcmd clear fhs stats all

**Description:** Clear FHS stats

**Syntax:**

|     |                 |
|-----|-----------------|
| all | clear FHS stats |
|-----|-----------------|

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>
(exec-ave-ng)# vemcmd clear fhs stats all
```

## vemcmd clear fhs stats all

**Description:** Clear FHS stats

**Syntax:**

|     |                 |
|-----|-----------------|
| all | clear FHS stats |
|-----|-----------------|

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>
(exec-avs)# vemcmd clear fhs stats all
```

# vemcmd dp dump bdrvteplist swbd

**vemcmd dp dump bdrvteplist swbd <swbd>**

**Description:** vemcmd dp dump bd-rvteplist swbd <swbd>

**Syntax:**

|             |   |
|-------------|---|
| <i>swbd</i> | vemcmd dp dump bd-rvteplist swbd <swbd>. Number range from=0 to=9223372036854775807 |
|-------------|---|

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>
(exec-ave)# vemcmd dp dump bdrvteplist swbd <swbd>
```

**vemcmd dp dump bdrvteplist swbd <swbd>**

**Description:** vemcmd dp dump bd-rvteplist swbd <swbd>

**Syntax:**

|             |   |
|-------------|---|
| <i>swbd</i> | vemcmd dp dump bd-rvteplist swbd <swbd>. Number range from=0 to=9223372036854775807 |
|-------------|---|

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>
(exec-ave-ng)# vemcmd dp dump bdrvteplist swbd <swbd>
```

**vemcmd dp dump bdrvteplist swbd <swbd>**

**Description:** vemcmd dp dump bd-rvteplist swbd <swbd>

**Syntax:**

|             |   |
|-------------|---|
| <i>swbd</i> | vemcmd dp dump bd-rvteplist swbd <swbd>. Number range from=0 to=9223372036854775807 |
|-------------|---|

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>
(exec-avs)# vemcmd dp dump bdrvteplist swbd <swbd>
```

# vemcmd dp dump vrfvteplist vrfvnid

**vemcmd dp dump vrfvteplist vrfvnid <vrfvnid>**

**Description:** vemcmd dp dump vrf-rvteplist vrfvnid <vrfvnid>

**Syntax:**

|                |  |
|----------------|--|
| <i>vrfvnid</i> | vemcmd dp dump vrf-rvteplist vrfvnid <vrfvnid>. Number range from=0 to=9223372036854775807 |
|----------------|--|

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>
(exec-ave)# vemcmd dp dump vrfvteplist vrfvnid <vrfvnid>
```

**vemcmd dp dump vrfvteplist vrfvnid <vrfvnid>**

**Description:** vemcmd dp dump vrf-rvteplist vrfvnid <vrfvnid>

**Syntax:**

|                |  |
|----------------|--|
| <i>vrfvnid</i> | vemcmd dp dump vrf-rvteplist vrfvnid <vrfvnid>. Number range from=0 to=9223372036854775807 |
|----------------|--|

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>
(exec-ave-ng)# vemcmd dp dump vrfvteplist vrfvnid <vrfvnid>
```

**vemcmd dp dump vrfvteplist vrfvnid <vrfvnid>**

**Description:** vemcmd dp dump vrf-rvteplist vrfvnid <vrfvnid>

**Syntax:**

|                |  |
|----------------|--|
| <i>vrfvnid</i> | vemcmd dp dump vrf-rvteplist vrfvnid <vrfvnid>. Number range from=0 to=9223372036854775807 |
|----------------|--|

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>
(exec-avs)# vemcmd dp dump vrfvteplist vrfvnid <vrfvnid>
```

# vemcmd dpa dump

## vemcmd dpa dump

**Description:** Clear FHS stats

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>  
(exec-ave)# vemcmd dpa dump
```

## vemcmd dpa dump

**Description:** Clear FHS stats

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>  
(exec-ave-ng)# vemcmd dpa dump
```

## vemcmd dpa dump

**Description:** Clear FHS stats

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>  
(exec-avs)# vemcmd dpa dump
```

# vemcmd dpa dump contracts

**vemcmd dpa dump contracts all|agent|uri|log-dp|log-agent**

**Description:** Show FHS stats

**Syntax:**

|           |           |
|-----------|-----------|
| all       | all       |
| agent     | agent     |
| uri       | uri       |
| log-dp    | log-dp    |
| log-agent | log-agent |

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>
(exec-ave)# vemcmd dpa dump contracts all|agent|uri|log-dp|log-agent
```

**vemcmd dpa dump contracts all|agent|uri|log-dp|log-agent**

**Description:** Show FHS stats

**Syntax:**

|           |           |
|-----------|-----------|
| all       | all       |
| agent     | agent     |
| uri       | uri       |
| log-dp    | log-dp    |
| log-agent | log-agent |

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>
(exec-ave-ng)# vemcmd dpa dump contracts all|agent|uri|log-dp|log-agent
```

**vemcmd dpa dump contracts all|agent|uri|log-dp|log-agent**

**Description:** Show FHS stats

**Syntax:**

|           |           |
|-----------|-----------|
| all       | all       |
| agent     | agent     |
| uri       | uri       |
| log-dp    | log-dp    |
| log-agent | log-agent |

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>  
(exec-avs)# vemcmd dpa dump contracts all|agent|uri|log-dp|log-agent
```

# vemcmd dpa dump modb

**vemcmd dpa dump modb**

**Description:** Show FHS stats

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>  
(exec-ave)# vemcmd dpa dump modb
```

**vemcmd dpa dump modb**

**Description:** Show FHS stats

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>  
(exec-ave-ng)# vemcmd dpa dump modb
```

**vemcmd dpa dump modb**

**Description:** Show FHS stats

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>  
(exec-avs)# vemcmd dpa dump modb
```

## vemcmd dpa epg

**vemcmd dpa epg add <filename>**

**Description:** vemcmd dpa epg

**Syntax:**

|                 |                                 |
|-----------------|---------------------------------|
| add             | vemcmd dpa epg                  |
| <i>filename</i> | vemcmd dpa epg add [<filename>] |

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>
(exec-ave)# vemcmd dpa epg add <filename>
```

**vemcmd dpa epg remove <filename>**

**Description:** vemcmd dpa epg

**Syntax:**

|                 |                                    |
|-----------------|------------------------------------|
| remove          | vemcmd dpa epg                     |
| <i>filename</i> | vemcmd dpa epg remove [<filename>] |

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>
(exec-ave)# vemcmd dpa epg remove <filename>
```

**vemcmd dpa epg add <filename>**

**Description:** vemcmd dpa epg

**Syntax:**

|                 |                                 |
|-----------------|---------------------------------|
| add             | vemcmd dpa epg                  |
| <i>filename</i> | vemcmd dpa epg add [<filename>] |

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>
(exec-ave-ng)# vemcmd dpa epg add <filename>
```



**vemcmd dpa epg remove <filename>****Description:** vemcmd dpa epg**Syntax:**

|                 |                                    |
|-----------------|------------------------------------|
| remove          | vemcmd dpa epg                     |
| <i>filename</i> | vemcmd dpa epg remove [<filename>] |

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device**Command Path:**

```
# attach-ave-ng <OpflexDevid>
(exec-ave-ng)# vemcmd dpa epg remove <filename>
```

**vemcmd dpa epg add <filename>****Description:** vemcmd dpa epg**Syntax:**

|                 |                                 |
|-----------------|---------------------------------|
| add             | vemcmd dpa epg                  |
| <i>filename</i> | vemcmd dpa epg add [<filename>] |

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device**Command Path:**

```
# attach-avs <OpflexDevid>
(exec-avs)# vemcmd dpa epg add <filename>
```

**vemcmd dpa epg remove <filename>****Description:** vemcmd dpa epg**Syntax:**

|                 |                                    |
|-----------------|------------------------------------|
| remove          | vemcmd dpa epg                     |
| <i>filename</i> | vemcmd dpa epg remove [<filename>] |

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device**Command Path:**

```
# attach-avs <OpflexDevid>
(exec-avs)# vemcmd dpa epg remove <filename>
```

# vemcmd dpa show

## vemcmd dpa show

**Description:** Clear FHS stats

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>  
(exec-ave)# vemcmd dpa show
```

## vemcmd dpa show

**Description:** Clear FHS stats

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>  
(exec-ave-ng)# vemcmd dpa show
```

## vemcmd dpa show

**Description:** Clear FHS stats

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>  
(exec-avs)# vemcmd dpa show
```

# vemcmd dpa show contracts

## vemcmd dpa show contracts

**Description:** Clear FHS stats

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>  
(exec-ave)# vemcmd dpa show contracts
```

## vemcmd dpa show contracts

**Description:** Clear FHS stats

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>  
(exec-ave-ng)# vemcmd dpa show contracts
```

## vemcmd dpa show contracts

**Description:** Clear FHS stats

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>  
(exec-avs)# vemcmd dpa show contracts
```

# vemcmd dpa show contracts change-list

## vemcmd dpa show contracts change-list

**Description:** vemcmd dpa show contracts change-list

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>  
(exec-ave)# vemcmd dpa show contracts change-list
```

## vemcmd dpa show contracts change-list

**Description:** vemcmd dpa show contracts change-list

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>  
(exec-ave-ng)# vemcmd dpa show contracts change-list
```

## vemcmd dpa show contracts change-list

**Description:** vemcmd dpa show contracts change-list

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>  
(exec-avs)# vemcmd dpa show contracts change-list
```

# vemcmd dpa show contracts epg-pair

**vemcmd dpa show contracts epg-pair <prov-epg> <cons-epg>**

**Description:** vemcmd dpa show contracts epg-pair

**Syntax:**

|                       |  |
|-----------------------|--|
| <prov-epg> <cons-epg> | vemcmd dpa show contracts epg-pair <prov-epg> <cons-epg> |
|-----------------------|--|

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>
(exec-ave)# vemcmd dpa show contracts epg-pair <prov-epg> <cons-epg>
```

**vemcmd dpa show contracts epg-pair <prov-epg> <cons-epg>**

**Description:** vemcmd dpa show contracts epg-pair

**Syntax:**

|                       |  |
|-----------------------|--|
| <prov-epg> <cons-epg> | vemcmd dpa show contracts epg-pair <prov-epg> <cons-epg> |
|-----------------------|--|

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>
(exec-ave-ng)# vemcmd dpa show contracts epg-pair <prov-epg> <cons-epg>
```

**vemcmd dpa show contracts epg-pair <prov-epg> <cons-epg>**

**Description:** vemcmd dpa show contracts epg-pair

**Syntax:**

|                       |  |
|-----------------------|--|
| <prov-epg> <cons-epg> | vemcmd dpa show contracts epg-pair <prov-epg> <cons-epg> |
|-----------------------|--|

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>
(exec-avs)# vemcmd dpa show contracts epg-pair <prov-epg> <cons-epg>
```

# vemcmd dpa show contracts log

## vemcmd dpa show contracts log change-list|contracts|epg

**Description:** vemcmd dpa show contracts change-list

**Syntax:**

|             |                                 |
|-------------|---------------------------------|
| change-list | Show binding table entry in VEM |
| contracts   | Show DHCP snoop tr              |
| epg         | epg                             |

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>
(exec-ave)# vemcmd dpa show contracts log change-list|contracts|epg
```

## vemcmd dpa show contracts log change-list|contracts|epg

**Description:** vemcmd dpa show contracts change-list

**Syntax:**

|             |                                 |
|-------------|---------------------------------|
| change-list | Show binding table entry in VEM |
| contracts   | Show DHCP snoop tr              |
| epg         | epg                             |

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>
(exec-ave-ng)# vemcmd dpa show contracts log change-list|contracts|epg
```

## vemcmd dpa show contracts log change-list|contracts|epg

**Description:** vemcmd dpa show contracts change-list

**Syntax:**

|             |                                 |
|-------------|---------------------------------|
| change-list | Show binding table entry in VEM |
| contracts   | Show DHCP snoop tr              |
| epg         | epg                             |

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>  
(exec-avs)# vemcmd dpa show contracts log change-list|contracts|epg
```

## vemcmd show avs

### vemcmd show avs macpinning

**Description:** Show vLeaf AVS

**Syntax:**

|            |                        |
|------------|------------------------|
| macpinning | Show vLeaf mac pinning |
|------------|------------------------|

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>
(exec-ave)# vemcmd show avs macpinning
```

### vemcmd show avs macpinning

**Description:** Show vLeaf AVS

**Syntax:**

|            |                        |
|------------|------------------------|
| macpinning | Show vLeaf mac pinning |
|------------|------------------------|

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>
(exec-ave-ng)# vemcmd show avs macpinning
```

### vemcmd show avs macpinning

**Description:** Show vLeaf AVS

**Syntax:**

|            |                        |
|------------|------------------------|
| macpinning | Show vLeaf mac pinning |
|------------|------------------------|

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>
(exec-avs)# vemcmd show avs macpinning
```



# vemcmd show bd

## vemcmd show bd

**Description:** vemcmd show bd

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>  
(exec-ave)# vemcmd show bd
```

## vemcmd show bd

**Description:** vemcmd show bd

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>  
(exec-ave-ng)# vemcmd show bd
```

## vemcmd show bd

**Description:** vemcmd show bd

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>  
(exec-avs)# vemcmd show bd
```

# vemcmd show bdsbnet

## vemcmd show bdsbnet

**Description:** vemcmd show bdsbnet

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>  
(exec-ave)# vemcmd show bdsbnet
```

## vemcmd show bdsbnet

**Description:** vemcmd show bdsbnet

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>  
(exec-ave-ng)# vemcmd show bdsbnet
```

## vemcmd show bdsbnet

**Description:** vemcmd show bdsbnet

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>  
(exec-avs)# vemcmd show bdsbnet
```

# vemcmd show cdp

## vemcmd show cdp neighbors|<0-4096> [details]

**Description:** Show CDP information

**Syntax:**

|                  |   |
|------------------|---|
| <i>neighbors</i> | neighbors                                       |
| <0-4096>         | <0-4096>  |
| details          | (Optional) show cdp {<ltl> neighbors} [details] |

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>
(exec-ave)# vemcmd show cdp neighbors|<0-4096> [details]
```

## vemcmd show cdp neighbors|<0-4096> [details]

**Description:** Show CDP information

**Syntax:**

|                  |   |
|------------------|---|
| <i>neighbors</i> | neighbors                                       |
| <0-4096>         | <0-4096>  |
| details          | (Optional) show cdp {<ltl> neighbors} [details] |

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>
(exec-ave-ng)# vemcmd show cdp neighbors|<0-4096> [details]
```

## vemcmd show cdp neighbors|<0-4096> [details]

**Description:** Show CDP information

**Syntax:**

|                  |   |
|------------------|---|
| <i>neighbors</i> | neighbors                                       |
| <0-4096>         | <0-4096>  |
| details          | (Optional) show cdp {<ltl> neighbors} [details] |

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>  
(exec-avs)# vemcmd show cdp neighbors|<0-4096> [details]
```

# vemcmd show contracts

## vemcmd show contracts epg-pairs|filters|stats

**Description:** vemcmd show contracts

**Syntax:**

|           |                         |
|-----------|-------------------------|
| epg-pairs | Show Contract EPG-Pairs |
| filters   | Show Contract Filters   |
| stats     | Show Contract stats all |

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>
(exec-ave)# vemcmd show contracts epg-pairs|filters|stats
```

## vemcmd show contracts epg-pairs|filters|stats

**Description:** vemcmd show contracts

**Syntax:**

|           |                         |
|-----------|-------------------------|
| epg-pairs | Show Contract EPG-Pairs |
| filters   | Show Contract Filters   |
| stats     | Show Contract stats all |

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>
(exec-ave-ng)# vemcmd show contracts epg-pairs|filters|stats
```

## vemcmd show contracts epg-pairs|filters|stats

**Description:** vemcmd show contracts

**Syntax:**

|           |                         |
|-----------|-------------------------|
| epg-pairs | Show Contract EPG-Pairs |
| filters   | Show Contract Filters   |
| stats     | Show Contract stats all |

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>  
(exec-avs)# vemcmd show contracts epg-pairs|filters|stats
```

# vemcmd show coop

## vemcmd show coop publish|query

**Description:** Show coop

**Syntax:**

|         |                   |
|---------|-------------------|
| publish | Show coop publish |
| query   | Show coop query   |

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>
(exec-ave)# vemcmd show coop publish|query
```

## vemcmd show coop publish|query

**Description:** Show coop

**Syntax:**

|         |                   |
|---------|-------------------|
| publish | Show coop publish |
| query   | Show coop query   |

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>
(exec-ave-ng)# vemcmd show coop publish|query
```

## vemcmd show coop publish|query

**Description:** Show coop

**Syntax:**

|         |                   |
|---------|-------------------|
| publish | Show coop publish |
| query   | Show coop query   |

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>
(exec-avs)# vemcmd show coop publish|query
```

## vemcmd show dfw connection

### vemcmd show dfw connection stats <dfw-stats-ltl>

**Description:** Show DFW connection stats <ltl>

**Syntax:**

|                      |  |
|----------------------|--|
| stats                | show dfw connection stats <ltl>  |
| <i>dfw-stats-ltl</i> | show dfw connection stats <ltl>. Number range from=0<br>to=9223372036854775807 |

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>
(exec-ave)# vemcmd show dfw connection stats <dfw-stats-ltl>
```

### vemcmd show dfw connection stats <dfw-stats-ltl>

**Description:** Show DFW connection stats <ltl>

**Syntax:**

|                      |  |
|----------------------|--|
| stats                | show dfw connection stats <ltl>  |
| <i>dfw-stats-ltl</i> | show dfw connection stats <ltl>. Number range from=0<br>to=9223372036854775807 |

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>
(exec-ave-ng)# vemcmd show dfw connection stats <dfw-stats-ltl>
```

### vemcmd show dfw connection stats <dfw-stats-ltl>

**Description:** Show DFW connection stats <ltl>

**Syntax:**

|                      |  |
|----------------------|--|
| stats                | show dfw connection stats <ltl>  |
| <i>dfw-stats-ltl</i> | show dfw connection stats <ltl>. Number range from=0<br>to=9223372036854775807 |

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**



```
# attach-avs <OpflexDevid>  
(exec-avs)# vemcmd show dfw connection stats <dfw-stats-ltl>
```

## vemcmd show dfw flows

### vemcmd show dfw flows all|unreported

**Description:** Show DFW flows {all|unreported}

**Syntax:**

|            |                           |
|------------|---------------------------|
| all        | show dfw flows all        |
| unreported | show dfw flows unreported |

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>
(exec-ave)# vemcmd show dfw flows all|unreported
```

### vemcmd show dfw flows all|unreported

**Description:** Show DFW flows {all|unreported}

**Syntax:**

|            |                           |
|------------|---------------------------|
| all        | show dfw flows all        |
| unreported | show dfw flows unreported |

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>
(exec-ave-ng)# vemcmd show dfw flows all|unreported
```

### vemcmd show dfw flows all|unreported

**Description:** Show DFW flows {all|unreported}

**Syntax:**

|            |                           |
|------------|---------------------------|
| all        | show dfw flows all        |
| unreported | show dfw flows unreported |

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>
(exec-avs)# vemcmd show dfw flows all|unreported
```

# vemcmd show dfw globals

## vemcmd show dfw globals [ltl <ltl>]

**Description:** Show port globals information

**Syntax:**

|            |   |
|------------|---|
| <i>ltl</i> | (Optional) Show dfw globals ltl <ltl>. Number range from=0 to=9223372036854775807 |
|------------|---|

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>
(exec-ave)# vemcmd show dfw globals [ltl <ltl>]
```

## vemcmd show dfw globals [ltl <ltl>]

**Description:** Show port globals information

**Syntax:**

|            |   |
|------------|---|
| <i>ltl</i> | (Optional) Show dfw globals ltl <ltl>. Number range from=0 to=9223372036854775807 |
|------------|---|

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>
(exec-ave-ng)# vemcmd show dfw globals [ltl <ltl>]
```

## vemcmd show dfw globals [ltl <ltl>]

**Description:** Show port globals information

**Syntax:**

|            |   |
|------------|---|
| <i>ltl</i> | (Optional) Show dfw globals ltl <ltl>. Number range from=0 to=9223372036854775807 |
|------------|---|

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>
(exec-avs)# vemcmd show dfw globals [ltl <ltl>]
```

# vemcmd show dfw interfaces

## vemcmd show dfw interfaces

**Description:** Show DFW interfaces

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>  
(exec-ave)# vemcmd show dfw interfaces
```

## vemcmd show dfw interfaces

**Description:** Show DFW interfaces

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>  
(exec-ave-ng)# vemcmd show dfw interfaces
```

## vemcmd show dfw interfaces

**Description:** Show DFW interfaces

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>  
(exec-avs)# vemcmd show dfw interfaces
```

# vemcmd show dfw port-drop

## vemcmd show dfw port-drop stats <ltl>

**Description:** Show DFW port-drop info

**Syntax:**

|            |  |
|------------|--|
| stats      | Show dfW port-drop stats   |
| <i>ltl</i> | show dfw port-drop stats <ltl>. Number range from=0 to=9223372036854775807 |

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>
(exec-ave)# vemcmd show dfw port-drop stats <ltl>
```

## vemcmd show dfw port-drop stats <ltl>

**Description:** Show DFW port-drop info

**Syntax:**

|            |  |
|------------|--|
| stats      | Show dfW port-drop stats   |
| <i>ltl</i> | show dfw port-drop stats <ltl>. Number range from=0 to=9223372036854775807 |

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>
(exec-ave-ng)# vemcmd show dfw port-drop stats <ltl>
```

## vemcmd show dfw port-drop stats <ltl>

**Description:** Show DFW port-drop info

**Syntax:**

|            |  |
|------------|--|
| stats      | Show dfW port-drop stats   |
| <i>ltl</i> | show dfw port-drop stats <ltl>. Number range from=0 to=9223372036854775807 |

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>  
(exec-avs)# vemcmd show dfw port-drop stats <lt1>
```

# vemcmd show dfw session

## vemcmd show dfw session stats <ltl>

**Description:** Show DFW Port TCP session Stats

**Syntax:**

|            |  |
|------------|--|
| stats      | Show DFW Port TCP session Stats  |
| <i>ltl</i> | Show DFW session stats <ltl>. Number range from=0 to=9223372036854775807 |

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>
(exec-ave)# vemcmd show dfw session stats <ltl>
```

## vemcmd show dfw session stats <ltl>

**Description:** Show DFW Port TCP session Stats

**Syntax:**

|            |  |
|------------|--|
| stats      | Show DFW Port TCP session Stats  |
| <i>ltl</i> | Show DFW session stats <ltl>. Number range from=0 to=9223372036854775807 |

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>
(exec-ave-ng)# vemcmd show dfw session stats <ltl>
```

## vemcmd show dfw session stats <ltl>

**Description:** Show DFW Port TCP session Stats

**Syntax:**

|            |  |
|------------|--|
| stats      | Show DFW Port TCP session Stats  |
| <i>ltl</i> | Show DFW session stats <ltl>. Number range from=0 to=9223372036854775807 |

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>  
(exec-avs)# vemcmd show dfw session stats <ttl>
```



# vemcmd show dfwdenyflows

**vemcmd show dfwdenyflows all|<0-4096>**

**Description:** Show DFW Deny flows {all|<lt>}

**Syntax:**

|            |          |
|------------|----------|
| <i>all</i> | all      |
| <0-4096>   | <0-4096> |

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>
(exec-ave)# vemcmd show dfwdenyflows all|<0-4096>
```

**vemcmd show dfwdenyflows all|<0-4096>**

**Description:** Show DFW Deny flows {all|<lt>}

**Syntax:**

|            |          |
|------------|----------|
| <i>all</i> | all      |
| <0-4096>   | <0-4096> |

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>
(exec-ave-ng)# vemcmd show dfwdenyflows all|<0-4096>
```

**vemcmd show dfwdenyflows all|<0-4096>**

**Description:** Show DFW Deny flows {all|<lt>}

**Syntax:**

|            |          |
|------------|----------|
| <i>all</i> | all      |
| <0-4096>   | <0-4096> |

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>
(exec-avs)# vemcmd show dfwdenyflows all|<0-4096>
```

## vemcmd show dfwflows ftp

**vemcmd show dfwflows ftp ltl <num>**

**Description:** Show DFW flows FTP ltl <ltl>

**Syntax:**

|     |  |
|-----|--|
| ltl | show dfwflows ftp ltl  |
| num | show dfwflows ftp ltl <ltl>. Number range from=0<br>to=9223372036854775807 |

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>
(exec-ave)# vemcmd show dfwflows ftp ltl <num>
```

**vemcmd show dfwflows ftp ltl <num>**

**Description:** Show DFW flows FTP ltl <ltl>

**Syntax:**

|     |  |
|-----|--|
| ltl | show dfwflows ftp ltl  |
| num | show dfwflows ftp ltl <ltl>. Number range from=0<br>to=9223372036854775807 |

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>
(exec-ave-ng)# vemcmd show dfwflows ftp ltl <num>
```

**vemcmd show dfwflows ftp ltl <num>**

**Description:** Show DFW flows FTP ltl <ltl>

**Syntax:**

|     |  |
|-----|--|
| ltl | show dfwflows ftp ltl  |
| num | show dfwflows ftp ltl <ltl>. Number range from=0<br>to=9223372036854775807 |

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>  
(exec-avs)# vemcmd show dfwflows ftp ltl <num>
```

# vemcmd show dfwflows ltl

**vemcmd show dfwflows ltl <num>**

**Description:** Show DFW flows ltl <ltl>

**Syntax:**

|            |   |
|------------|---|
| <i>num</i> | show dfwflows ltl <ltl>. Number range from=0 to=9223372036854775807 |
|------------|---|

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>
(exec-ave)# vemcmd show dfwflows ltl <num>
```

**vemcmd show dfwflows ltl <num>**

**Description:** Show DFW flows ltl <ltl>

**Syntax:**

|            |   |
|------------|---|
| <i>num</i> | show dfwflows ltl <ltl>. Number range from=0 to=9223372036854775807 |
|------------|---|

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>
(exec-ave-ng)# vemcmd show dfwflows ltl <num>
```

**vemcmd show dfwflows ltl <num>**

**Description:** Show DFW flows ltl <ltl>

**Syntax:**

|            |   |
|------------|---|
| <i>num</i> | show dfwflows ltl <ltl>. Number range from=0 to=9223372036854775807 |
|------------|---|

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>
(exec-avs)# vemcmd show dfwflows ltl <num>
```

# vemcmd show dfwslflows

**vemcmd show dfwslflows all|<0-4096>**

**Description:** Show DFW Short Lived flows {all|<lt>}

**Syntax:**

|            |          |
|------------|----------|
| <i>all</i> | all      |
| <0-4096>   | <0-4096> |

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>
(exec-ave)# vemcmd show dfwslflows all|<0-4096>
```

**vemcmd show dfwslflows all|<0-4096>**

**Description:** Show DFW Short Lived flows {all|<lt>}

**Syntax:**

|            |          |
|------------|----------|
| <i>all</i> | all      |
| <0-4096>   | <0-4096> |

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>
(exec-ave-ng)# vemcmd show dfwslflows all|<0-4096>
```

**vemcmd show dfwslflows all|<0-4096>**

**Description:** Show DFW Short Lived flows {all|<lt>}

**Syntax:**

|            |          |
|------------|----------|
| <i>all</i> | all      |
| <0-4096>   | <0-4096> |

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>
(exec-avs)# vemcmd show dfwslflows all|<0-4096>
```

# vemcmd show epp

## vemcmd show epp multicast

**Description:** Show EPP information

**Syntax:**

|           |                    |
|-----------|--------------------|
| multicast | show epp multicast |
|-----------|--------------------|

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>
(exec-ave)# vemcmd show epp multicast
```

## vemcmd show epp multicast

**Description:** Show EPP information

**Syntax:**

|           |                    |
|-----------|--------------------|
| multicast | show epp multicast |
|-----------|--------------------|

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>
(exec-ave-ng)# vemcmd show epp multicast
```

## vemcmd show epp multicast

**Description:** Show EPP information

**Syntax:**

|           |                    |
|-----------|--------------------|
| multicast | show epp multicast |
|-----------|--------------------|

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>
(exec-avs)# vemcmd show epp multicast
```

## vemcmd show fhs-stats

**vemcmd show fhs-stats cookie <cookie\_num>**

**Description:** Show FHS stats

**Syntax:**

|                   |  |
|-------------------|--|
| cookie            | show fhs-stats cookie <number>   |
| <i>cookie_num</i> | show fhs-stats cookie <number>. Number range from=0 to=9223372036854775807 |

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>
(exec-ave)# vemcmd show fhs-stats cookie <cookie_num>
```

**vemcmd show fhs-stats cookie <cookie\_num>**

**Description:** Show FHS stats

**Syntax:**

|                   |  |
|-------------------|--|
| cookie            | show fhs-stats cookie <number>   |
| <i>cookie_num</i> | show fhs-stats cookie <number>. Number range from=0 to=9223372036854775807 |

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>
(exec-ave-ng)# vemcmd show fhs-stats cookie <cookie_num>
```

**vemcmd show fhs-stats cookie <cookie\_num>**

**Description:** Show FHS stats

**Syntax:**

|                   |  |
|-------------------|--|
| cookie            | show fhs-stats cookie <number>   |
| <i>cookie_num</i> | show fhs-stats cookie <number>. Number range from=0 to=9223372036854775807 |

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>  
(exec-avs)# vemcmd show fhs-stats cookie <cookie_num>
```



# vemcmd show fhs arp-learning

## vemcmd show fhs arp-learning

**Description:** Show FHS arp learning

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>  
(exec-ave)# vemcmd show fhs arp-learning
```

## vemcmd show fhs arp-learning

**Description:** Show FHS arp learning

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>  
(exec-ave-ng)# vemcmd show fhs arp-learning
```

## vemcmd show fhs arp-learning

**Description:** Show FHS arp learning

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>  
(exec-avs)# vemcmd show fhs arp-learning
```

## vemcmd show fhs dai

### vemcmd show fhs dai interfaces|stats|vlan

**Description:** Show FHS DAI information

**Syntax:**

|            |                                  |
|------------|----------------------------------|
| interfaces | Show DAI trusted/untrusted intfs |
| stats      | Show DAI stats                   |
| vlan       | Show DAI VLANs                   |

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>
(exec-ave)# vemcmd show fhs dai interfaces|stats|vlan
```

### vemcmd show fhs dai interfaces|stats|vlan

**Description:** Show FHS DAI information

**Syntax:**

|            |                                  |
|------------|----------------------------------|
| interfaces | Show DAI trusted/untrusted intfs |
| stats      | Show DAI stats                   |
| vlan       | Show DAI VLANs                   |

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>
(exec-ave-ng)# vemcmd show fhs dai interfaces|stats|vlan
```

### vemcmd show fhs dai interfaces|stats|vlan

**Description:** Show FHS DAI information

**Syntax:**

|            |                                  |
|------------|----------------------------------|
| interfaces | Show DAI trusted/untrusted intfs |
| stats      | Show DAI stats                   |
| vlan       | Show DAI VLANs                   |

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>  
(exec-avs)# vemcmd show fhs dai interfaces|stats|vlan
```

# vemcmd show fhs dhcps

## vemcmd show fhs dhcps binding|interfaces|stats|vlan

**Description:** Show FHS DHCP information

**Syntax:**

|            |   |
|------------|---|
| binding    | Show binding table entry in VEM         |
| interfaces | Show DHCP snoop trusted/untrusted intfs |
| stats      | Show DHCP stats                         |
| vlan       | Show DHCP snoop VLANs                   |

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>
(exec-ave)# vemcmd show fhs dhcps binding|interfaces|stats|vlan
```

## vemcmd show fhs dhcps binding|interfaces|stats|vlan

**Description:** Show FHS DHCP information

**Syntax:**

|            |   |
|------------|---|
| binding    | Show binding table entry in VEM         |
| interfaces | Show DHCP snoop trusted/untrusted intfs |
| stats      | Show DHCP stats                         |
| vlan       | Show DHCP snoop VLANs                   |

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>
(exec-ave-ng)# vemcmd show fhs dhcps binding|interfaces|stats|vlan
```

## vemcmd show fhs dhcps binding|interfaces|stats|vlan

**Description:** Show FHS DHCP information

**Syntax:**

|            |   |
|------------|---|
| binding    | Show binding table entry in VEM         |
| interfaces | Show DHCP snoop trusted/untrusted intfs |

|       |                       |
|-------|-----------------------|
| stats | Show DHCP stats       |
| vlan  | Show DHCP snoop VLANs |

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>  
(exec-avs)# vemcmd show fhs dhcps binding|interfaces|stats|vlan
```

# vemcmd show fhs ipsg

## vemcmd show fhs ipsg interfaces

**Description:** Show IPSG intfs

**Syntax:**

|            |                 |
|------------|-----------------|
| interfaces | Show IPSG intfs |
|------------|-----------------|

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>
(exec-ave)# vemcmd show fhs ipsg interfaces
```

## vemcmd show fhs ipsg interfaces

**Description:** Show IPSG intfs

**Syntax:**

|            |                 |
|------------|-----------------|
| interfaces | Show IPSG intfs |
|------------|-----------------|

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>
(exec-ave-ng)# vemcmd show fhs ipsg interfaces
```

## vemcmd show fhs ipsg interfaces

**Description:** Show IPSG intfs

**Syntax:**

|            |                 |
|------------|-----------------|
| interfaces | Show IPSG intfs |
|------------|-----------------|

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>
(exec-avs)# vemcmd show fhs ipsg interfaces
```

# vemcmd show fhs learnt-ip

## vemcmd show fhs learnt-ip

**Description:** Show FHS learnt ip

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>  
(exec-ave)# vemcmd show fhs learnt-ip
```

## vemcmd show fhs learnt-ip

**Description:** Show FHS learnt ip

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>  
(exec-ave-ng)# vemcmd show fhs learnt-ip
```

## vemcmd show fhs learnt-ip

**Description:** Show FHS learnt ip

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>  
(exec-avs)# vemcmd show fhs learnt-ip
```

# vemcmd show fhs static

## vemcmd show fhs static binding

**Description:** Show dhcpd dpa table

**Syntax:**

|         |                      |
|---------|----------------------|
| binding | Show dhcpd dpa table |
|---------|----------------------|

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>
(exec-ave)# vemcmd show fhs static binding
```

## vemcmd show fhs static binding

**Description:** Show dhcpd dpa table

**Syntax:**

|         |                      |
|---------|----------------------|
| binding | Show dhcpd dpa table |
|---------|----------------------|

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>
(exec-ave-ng)# vemcmd show fhs static binding
```

## vemcmd show fhs static binding

**Description:** Show dhcpd dpa table

**Syntax:**

|         |                      |
|---------|----------------------|
| binding | Show dhcpd dpa table |
|---------|----------------------|

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>
(exec-avs)# vemcmd show fhs static binding
```



# vemcmd show fhs stats

## vemcmd show fhs stats

**Description:** Show FHS stats

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>  
(exec-ave)# vemcmd show fhs stats
```

## vemcmd show fhs stats

**Description:** Show FHS stats

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>  
(exec-ave-ng)# vemcmd show fhs stats
```

## vemcmd show fhs stats

**Description:** Show FHS stats

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>  
(exec-avs)# vemcmd show fhs stats
```

# vemcmd show heap

## vemcmd show heap

**Description:** Show the heap list

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>  
(exec-ave)# vemcmd show heap
```

## vemcmd show heap

**Description:** Show the heap list

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>  
(exec-ave-ng)# vemcmd show heap
```

## vemcmd show heap

**Description:** Show the heap list

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>  
(exec-avs)# vemcmd show heap
```

# vemcmd show host

## vemcmd show host

**Description:** Show the host details

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>  
(exec-ave)# vemcmd show host
```

## vemcmd show host

**Description:** Show the host details

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>  
(exec-ave-ng)# vemcmd show host
```

## vemcmd show host

**Description:** Show the host details

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>  
(exec-avs)# vemcmd show host
```

# vemcmd show hrep

## vemcmd show hrep

**Description:** vemcmd show hrep

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>  
(exec-ave)# vemcmd show hrep
```

## vemcmd show hrep

**Description:** vemcmd show hrep

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>  
(exec-ave-ng)# vemcmd show hrep
```

## vemcmd show hrep

**Description:** vemcmd show hrep

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>  
(exec-avs)# vemcmd show hrep
```

# vemcmd show hrep info

## vemcmd show hrep info

**Description:** vemcmd show hrep info

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>
(exec-ave)# vemcmd show hrep info
```

## vemcmd show hrep info

**Description:** vemcmd show hrep info

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>
(exec-ave-ng)# vemcmd show hrep info
```

## vemcmd show hrep info

**Description:** vemcmd show hrep info

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>
(exec-avs)# vemcmd show hrep info
```

## vemcmd show l2

**vemcmd show l2 all|<0-4096>**

**Description:** Show l2 information {all|<vlan>}

**Syntax:**

|            |          |
|------------|----------|
| <i>all</i> | all      |
| <0-4096>   | <0-4096> |

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>
(exec-ave)# vemcmd show l2 all|<0-4096>
```

**vemcmd show l2 all|<0-4096>**

**Description:** Show l2 information {all|<vlan>}

**Syntax:**

|            |          |
|------------|----------|
| <i>all</i> | all      |
| <0-4096>   | <0-4096> |

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>
(exec-ave-ng)# vemcmd show l2 all|<0-4096>
```

**vemcmd show l2 all|<0-4096>**

**Description:** Show l2 information {all|<vlan>}

**Syntax:**

|            |          |
|------------|----------|
| <i>all</i> | all      |
| <0-4096>   | <0-4096> |

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>
(exec-avs)# vemcmd show l2 all|<0-4096>
```

# vemcmd show l3

## vemcmd show l3

**Description:** vemcmd show l3

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>  
(exec-ave)# vemcmd show l3
```

## vemcmd show l3

**Description:** vemcmd show l3

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>  
(exec-ave-ng)# vemcmd show l3
```

## vemcmd show l3

**Description:** vemcmd show l3

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>  
(exec-avs)# vemcmd show l3
```

## vemcmd show l3 all

### vemcmd show l3 all

**Description:** vemcmd show l3 all

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>  
(exec-ave)# vemcmd show l3 all
```

### vemcmd show l3 all

**Description:** vemcmd show l3 all

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>  
(exec-ave-ng)# vemcmd show l3 all
```

### vemcmd show l3 all

**Description:** vemcmd show l3 all

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>  
(exec-avs)# vemcmd show l3 all
```



# vemcmd show lacp

## vemcmd show lacp <lacp\_ltl>

**Description:** Show LACP information

**Syntax:**

|                 |   |
|-----------------|---|
| <i>lacp_ltl</i> | Show LACP <ltl>. Number range from=0 to=9223372036854775807 |
|-----------------|---|

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>
(exec-ave)# vemcmd show lacp <lacp_ltl>
```

## vemcmd show lacp <lacp\_ltl>

**Description:** Show LACP information

**Syntax:**

|                 |   |
|-----------------|---|
| <i>lacp_ltl</i> | Show LACP <ltl>. Number range from=0 to=9223372036854775807 |
|-----------------|---|

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>
(exec-ave-ng)# vemcmd show lacp <lacp_ltl>
```

## vemcmd show lacp <lacp\_ltl>

**Description:** Show LACP information

**Syntax:**

|                 |   |
|-----------------|---|
| <i>lacp_ltl</i> | Show LACP <ltl>. Number range from=0 to=9223372036854775807 |
|-----------------|---|

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>
(exec-avs)# vemcmd show lacp <lacp_ltl>
```

## vemcmd show lldp

**vemcmd show lldp neighbors|<0-4096>**

**Description:** Show LLDP information

**Syntax:**

|                  |           |
|------------------|-----------|
| <i>neighbors</i> | neighbors |
| <0-4096>         | <0-4096>  |

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>
(exec-ave)# vemcmd show lldp neighbors|<0-4096>
```

**vemcmd show lldp neighbors|<0-4096>**

**Description:** Show LLDP information

**Syntax:**

|                  |           |
|------------------|-----------|
| <i>neighbors</i> | neighbors |
| <0-4096>         | <0-4096>  |

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>
(exec-ave-ng)# vemcmd show lldp neighbors|<0-4096>
```

**vemcmd show lldp neighbors|<0-4096>**

**Description:** Show LLDP information

**Syntax:**

|                  |           |
|------------------|-----------|
| <i>neighbors</i> | neighbors |
| <0-4096>         | <0-4096>  |

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>
(exec-avs)# vemcmd show lldp neighbors|<0-4096>
```

# vemcmd show macpool

## vemcmd show macpool <intfname>

**Description:** Show the VEM and VSM versions

**Syntax:**

|                 |  |
|-----------------|--|
| <i>intfname</i> | Show microsegment tables info <tbl-id> |
|-----------------|--|

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>
(exec-ave)# vemcmd show macpool <intfname>
```

## vemcmd show macpool <intfname>

**Description:** Show the VEM and VSM versions

**Syntax:**

|                 |  |
|-----------------|--|
| <i>intfname</i> | Show microsegment tables info <tbl-id> |
|-----------------|--|

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>
(exec-ave-ng)# vemcmd show macpool <intfname>
```

## vemcmd show macpool <intfname>

**Description:** Show the VEM and VSM versions

**Syntax:**

|                 |  |
|-----------------|--|
| <i>intfname</i> | Show microsegment tables info <tbl-id> |
|-----------------|--|

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>
(exec-avs)# vemcmd show macpool <intfname>
```

# vemcmd show mempool

## vemcmd show mempool

**Description:** Show the memory pool list

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>  
(exec-ave)# vemcmd show mempool
```

## vemcmd show mempool

**Description:** Show the memory pool list

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>  
(exec-ave-ng)# vemcmd show mempool
```

## vemcmd show mempool

**Description:** Show the memory pool list

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>  
(exec-avs)# vemcmd show mempool
```

# vemcmd show microsegment tables brief

## vemcmd show microsegment tables brief

**Description:** Show vLeaf microsegment tables brief

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>
(exec-ave)# vemcmd show microsegment tables brief
```

## vemcmd show microsegment tables brief

**Description:** Show vLeaf microsegment tables brief

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>
(exec-ave-ng)# vemcmd show microsegment tables brief
```

## vemcmd show microsegment tables brief

**Description:** Show vLeaf microsegment tables brief

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>
(exec-avs)# vemcmd show microsegment tables brief
```

# vemcmd show microsegment tables info

## vemcmd show microsegment tables info <tbl-id>

**Description:** Show vLeaf microsegment tables info <tbl-id>

**Syntax:**

|               |  |
|---------------|--|
| <i>tbl-id</i> | Show vLeaf microsegment tables info <tbl-id>. Number range from=0 to=9223372036854775807 |
|---------------|--|

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>
(exec-ave)# vemcmd show microsegment tables info <tbl-id>
```

## vemcmd show microsegment tables info <tbl-id>

**Description:** Show vLeaf microsegment tables info <tbl-id>

**Syntax:**

|               |  |
|---------------|--|
| <i>tbl-id</i> | Show vLeaf microsegment tables info <tbl-id>. Number range from=0 to=9223372036854775807 |
|---------------|--|

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>
(exec-ave-ng)# vemcmd show microsegment tables info <tbl-id>
```

## vemcmd show microsegment tables info <tbl-id>

**Description:** Show vLeaf microsegment tables info <tbl-id>

**Syntax:**

|               |  |
|---------------|--|
| <i>tbl-id</i> | Show vLeaf microsegment tables info <tbl-id>. Number range from=0 to=9223372036854775807 |
|---------------|--|

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>
(exec-avs)# vemcmd show microsegment tables info <tbl-id>
```

# vemcmd show mtep ipaddress

## vemcmd show mtep ipaddress

**Description:** Show the VEM and VSM versions

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>  
(exec-ave)# vemcmd show mtep ipaddress
```

## vemcmd show mtep ipaddress

**Description:** Show the VEM and VSM versions

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>  
(exec-ave-ng)# vemcmd show mtep ipaddress
```

## vemcmd show mtep ipaddress

**Description:** Show the VEM and VSM versions

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>  
(exec-avs)# vemcmd show mtep ipaddress
```

# vemcmd show opflex

## vemcmd show opflex cloud

**Description:** Show opflex status

**Syntax:**

|       |                          |
|-------|--------------------------|
| cloud | Show opflex status cloud |
|-------|--------------------------|

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>
(exec-ave)# vemcmd show opflex cloud
```

## vemcmd show opflex cloud

**Description:** Show opflex status

**Syntax:**

|       |                          |
|-------|--------------------------|
| cloud | Show opflex status cloud |
|-------|--------------------------|

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>
(exec-ave-ng)# vemcmd show opflex cloud
```

## vemcmd show opflex cloud

**Description:** Show opflex status

**Syntax:**

|       |                          |
|-------|--------------------------|
| cloud | Show opflex status cloud |
|-------|--------------------------|

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>
(exec-avs)# vemcmd show opflex cloud
```



# vemcmd show packets

## vemcmd show packets

**Description:** Show packets

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>  
(exec-ave)# vemcmd show packets
```

## vemcmd show packets

**Description:** Show packets

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>  
(exec-ave-ng)# vemcmd show packets
```

## vemcmd show packets

**Description:** Show packets

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>  
(exec-avs)# vemcmd show packets
```

# vemcmd show pc

## vemcmd show pc info|mode

**Description:** Show port channel

**Syntax:**

|      |                                  |
|------|----------------------------------|
| info | Show port channel table          |
| mode | Show port-channel mode on uplink |

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>
(exec-ave)# vemcmd show pc info|mode
```

## vemcmd show pc info|mode

**Description:** Show port channel

**Syntax:**

|      |                                  |
|------|----------------------------------|
| info | Show port channel table          |
| mode | Show port-channel mode on uplink |

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>
(exec-ave-ng)# vemcmd show pc info|mode
```

## vemcmd show pc info|mode

**Description:** Show port channel

**Syntax:**

|      |                                  |
|------|----------------------------------|
| info | Show port channel table          |
| mode | Show port-channel mode on uplink |

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>
(exec-avs)# vemcmd show pc info|mode
```

# vemcmd show pd-port

## vemcmd show pd-port

**Description:** Show pd-port

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>  
(exec-ave)# vemcmd show pd-port
```

## vemcmd show pd-port

**Description:** Show pd-port

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>  
(exec-ave-ng)# vemcmd show pd-port
```

## vemcmd show pd-port

**Description:** Show pd-port

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>  
(exec-avs)# vemcmd show pd-port
```

# vemcmd show port

## vemcmd show port vlans internal|system|vsm

**Description:** Show port information

**Syntax:**

|          |               |
|----------|---------------|
| vlans    | vlans keyword |
| internal | internal      |
| system   | system        |
| vsm      | vsm           |

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>
(exec-ave)# vemcmd show port vlans internal|system|vsm
```

## vemcmd show port vlans internal|system|vsm

**Description:** Show port information

**Syntax:**

|          |               |
|----------|---------------|
| vlans    | vlans keyword |
| internal | internal      |
| system   | system        |
| vsm      | vsm           |

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>
(exec-ave-ng)# vemcmd show port vlans internal|system|vsm
```

## vemcmd show port vlans internal|system|vsm

**Description:** Show port information

**Syntax:**

|          |               |
|----------|---------------|
| vlans    | vlans keyword |
| internal | internal      |

|        |        |
|--------|--------|
| system | system |
| vsm    | vsm    |

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>  
(exec-avs)# vemcmd show port vlans internal|system|vsm
```

# vemcmd show portmac

## vemcmd show portmac

**Description:** Show the port table MAC entries

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>  
(exec-ave)# vemcmd show portmac
```

## vemcmd show portmac

**Description:** Show the port table MAC entries

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>  
(exec-ave-ng)# vemcmd show portmac
```

## vemcmd show portmac

**Description:** Show the port table MAC entries

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>  
(exec-avs)# vemcmd show portmac
```

# vemcmd show proxy-arp

## vemcmd show proxy-arp

**Description:** Show Proxy ARP

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>  
(exec-ave)# vemcmd show proxy-arp
```

## vemcmd show proxy-arp

**Description:** Show Proxy ARP

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>  
(exec-ave-ng)# vemcmd show proxy-arp
```

## vemcmd show proxy-arp

**Description:** Show Proxy ARP

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>  
(exec-avs)# vemcmd show proxy-arp
```

# vemcmd show sod

## vemcmd show sod

**Description:** Show the switch opaque data

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>  
(exec-ave)# vemcmd show sod
```

## vemcmd show sod

**Description:** Show the switch opaque data

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>  
(exec-ave-ng)# vemcmd show sod
```

## vemcmd show sod

**Description:** Show the switch opaque data

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>  
(exec-avs)# vemcmd show sod
```



# vemcmd show span

## vemcmd show span

**Description:** Show SPAN/ERSPAN information

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>  
(exec-ave)# vemcmd show span
```

## vemcmd show span

**Description:** Show SPAN/ERSPAN information

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>  
(exec-ave-ng)# vemcmd show span
```

## vemcmd show span

**Description:** Show SPAN/ERSPAN information

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>  
(exec-avs)# vemcmd show span
```

# vemcmd show stats cookie

## vemcmd show stats cookie <stats-cookie>

**Description:** Show stats cookie

**Syntax:**

|                     |   |
|---------------------|---|
| <i>stats-cookie</i> | Show stats cookie. Number range from=0 to=9223372036854775807 |
|---------------------|---|

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>
(exec-ave)# vemcmd show stats cookie <stats-cookie>
```

## vemcmd show stats cookie <stats-cookie>

**Description:** Show stats cookie

**Syntax:**

|                     |   |
|---------------------|---|
| <i>stats-cookie</i> | Show stats cookie. Number range from=0 to=9223372036854775807 |
|---------------------|---|

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>
(exec-ave-ng)# vemcmd show stats cookie <stats-cookie>
```

## vemcmd show stats cookie <stats-cookie>

**Description:** Show stats cookie

**Syntax:**

|                     |   |
|---------------------|---|
| <i>stats-cookie</i> | Show stats cookie. Number range from=0 to=9223372036854775807 |
|---------------------|---|

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>
(exec-avs)# vemcmd show stats cookie <stats-cookie>
```

# vemcmd show useg all

## vemcmd show useg all

**Description:** Show microsegmentation all information

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>  
(exec-ave)# vemcmd show useg all
```

## vemcmd show useg all

**Description:** Show microsegmentation all information

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>  
(exec-ave-ng)# vemcmd show useg all
```

## vemcmd show useg all

**Description:** Show microsegmentation all information

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>  
(exec-avs)# vemcmd show useg all
```

# vemcmd show useg tables brief

## vemcmd show useg tables brief

**Description:** Show microsegmentation tables brief

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>  
(exec-ave)# vemcmd show useg tables brief
```

## vemcmd show useg tables brief

**Description:** Show microsegmentation tables brief

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>  
(exec-ave-ng)# vemcmd show useg tables brief
```

## vemcmd show useg tables brief

**Description:** Show microsegmentation tables brief

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>  
(exec-avs)# vemcmd show useg tables brief
```

# vemcmd show useg tables info

## vemcmd show useg tables info <tbl-id>

**Description:** Show microsegment tables info <tbl-id>

**Syntax:**

|               |  |
|---------------|--|
| <i>tbl-id</i> | Show microsegment tables info <tbl-id>. Number range from=0 to=9223372036854775807 |
|---------------|--|

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>
(exec-ave)# vemcmd show useg tables info <tbl-id>
```

## vemcmd show useg tables info <tbl-id>

**Description:** Show microsegment tables info <tbl-id>

**Syntax:**

|               |  |
|---------------|--|
| <i>tbl-id</i> | Show microsegment tables info <tbl-id>. Number range from=0 to=9223372036854775807 |
|---------------|--|

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>
(exec-ave-ng)# vemcmd show useg tables info <tbl-id>
```

## vemcmd show useg tables info <tbl-id>

**Description:** Show microsegment tables info <tbl-id>

**Syntax:**

|               |  |
|---------------|--|
| <i>tbl-id</i> | Show microsegment tables info <tbl-id>. Number range from=0 to=9223372036854775807 |
|---------------|--|

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>
(exec-avs)# vemcmd show useg tables info <tbl-id>
```

# vemcmd show useg unresolved

## vemcmd show useg unresolved

**Description:** Show microsegmentation unresolved port

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>  
(exec-ave)# vemcmd show useg unresolved
```

## vemcmd show useg unresolved

**Description:** Show microsegmentation unresolved port

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>  
(exec-ave-ng)# vemcmd show useg unresolved
```

## vemcmd show useg unresolved

**Description:** Show microsegmentation unresolved port

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>  
(exec-avs)# vemcmd show useg unresolved
```

# vemcmd show version

## vemcmd show version

**Description:** Show the VEM and VSM versions

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>  
(exec-ave)# vemcmd show version
```

## vemcmd show version

**Description:** Show the VEM and VSM versions

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>  
(exec-ave-ng)# vemcmd show version
```

## vemcmd show version

**Description:** Show the VEM and VSM versions

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>  
(exec-avs)# vemcmd show version
```

## vemcmd show vlan

**vemcmd show vlan <vlan\_num>**

**Description:** Show a given vlan

**Syntax:**

|                 |  |
|-----------------|--|
| <i>vlan_num</i> | Show vlan number. Number range from=0 to=9223372036854775807 |
|-----------------|--|

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>
(exec-ave)# vemcmd show vlan <vlan_num>
```

**vemcmd show vlan <vlan\_num>**

**Description:** Show a given vlan

**Syntax:**

|                 |  |
|-----------------|--|
| <i>vlan_num</i> | Show vlan number. Number range from=0 to=9223372036854775807 |
|-----------------|--|

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>
(exec-ave-ng)# vemcmd show vlan <vlan_num>
```

**vemcmd show vlan <vlan\_num>**

**Description:** Show a given vlan

**Syntax:**

|                 |  |
|-----------------|--|
| <i>vlan_num</i> | Show vlan number. Number range from=0 to=9223372036854775807 |
|-----------------|--|

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>
(exec-avs)# vemcmd show vlan <vlan_num>
```



# vemcmd show vxlanstats

## vemcmd show vxlanstats

**Description:** Show VXLAN VTEP VM mapping Information

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>  
(exec-ave)# vemcmd show vxlanstats
```

## vemcmd show vxlanstats

**Description:** Show VXLAN VTEP VM mapping Information

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>  
(exec-ave-ng)# vemcmd show vxlanstats
```

## vemcmd show vxlanstats

**Description:** Show VXLAN VTEP VM mapping Information

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>  
(exec-avs)# vemcmd show vxlanstats
```

# vemcmd show vxlanvtepmap

## vemcmd show vxlanvtepmap

**Description:** Show VXLAN VTEP VM mapping Information

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>
(exec-ave)# vemcmd show vxlanvtepmap
```

## vemcmd show vxlanvtepmap

**Description:** Show VXLAN VTEP VM mapping Information

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>
(exec-ave-ng)# vemcmd show vxlanvtepmap
```

## vemcmd show vxlanvtepmap

**Description:** Show VXLAN VTEP VM mapping Information

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>
(exec-avs)# vemcmd show vxlanvtepmap
```

# vemcmd show vxlanvteps

## vemcmd show vxlanvteps

**Description:** Show VXLAN VTEPs

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>  
(exec-ave)# vemcmd show vxlanvteps
```

## vemcmd show vxlanvteps

**Description:** Show VXLAN VTEPs

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>  
(exec-ave-ng)# vemcmd show vxlanvteps
```

## vemcmd show vxlanvteps

**Description:** Show VXLAN VTEPs

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>  
(exec-avs)# vemcmd show vxlanvteps
```

# vemdebug set infra

## vemdebug set infra tagging 0|1

**Description:** vemdebug set infra tagging

**Syntax:**

|         |  |
|---------|--|
| tagging | vemdebug set infra tagging   |
| 0       | vemcmd dpa epg remove [<filename>]. Number range from=0 to=9223372036854775807 |
| 1       | vemcmd dpa epg remove [<filename>]. Number range from=0 to=9223372036854775807 |

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>
(exec-ave)# vemdebug set infra tagging 0|1
```

## vemdebug set infra tagging 0|1

**Description:** vemdebug set infra tagging

**Syntax:**

|         |  |
|---------|--|
| tagging | vemdebug set infra tagging   |
| 0       | vemcmd dpa epg remove [<filename>]. Number range from=0 to=9223372036854775807 |
| 1       | vemcmd dpa epg remove [<filename>]. Number range from=0 to=9223372036854775807 |

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>
(exec-ave-ng)# vemdebug set infra tagging 0|1
```

## vemdebug set infra tagging 0|1

**Description:** vemdebug set infra tagging

**Syntax:**

|         |                            |
|---------|----------------------------|
| tagging | vemdebug set infra tagging |
|---------|----------------------------|

|          |  |
|----------|--|
| <i>0</i> | vemcmd dpa epg remove [<filename>]. Number range from=0 to=9223372036854775807 |
| <i>1</i> | vemcmd dpa epg remove [<filename>]. Number range from=0 to=9223372036854775807 |

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>  
(exec-avs)# vemdebug set infra tagging 0|1
```

# vemsend

## vemsend <vemsend\_str>

**Description:** vemsend <command>

**Syntax:**

|               |                     |
|---------------|---------------------|
| <vemsend_str> | vemsend AVS command |
|---------------|---------------------|

**Command Mode:** attach-ave : Execute remote cli on AVE Device

**Command Path:**

```
# attach-ave <OpflexDevid>
(exec-ave)# vemsend <vemsend_str>
```

## vemsend <vemsend\_str>

**Description:** vemsend <command>

**Syntax:**

|               |                     |
|---------------|---------------------|
| <vemsend_str> | vemsend AVS command |
|---------------|---------------------|

**Command Mode:** attach-ave-ng : Execute remote cli on AVE NG Device

**Command Path:**

```
# attach-ave-ng <OpflexDevid>
(exec-ave-ng)# vemsend <vemsend_str>
```

## vemsend <vemsend\_str>

**Description:** vemsend <command>

**Syntax:**

|               |                     |
|---------------|---------------------|
| <vemsend_str> | vemsend AVS command |
|---------------|---------------------|

**Command Mode:** attach-avs : Execute remote cli on an Opflex Device

**Command Path:**

```
# attach-avs <OpflexDevid>
(exec-avs)# vemsend <vemsend_str>
```

# version

## version <WORD>

**Description:** Configure the Resource Pool version

**Syntax:**

|             |                    |
|-------------|--------------------|
| <i>WORD</i> | classic/normalized |
|-------------|--------------------|

**Command Mode:** l4l7 resource-pool : Configure L4-L7 Service Resource Pool

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# l4l7 resource-pool <WORD>
(config-resource-pool)# version <WORD>
```

## version <versionNo>

**Description:** Configure version

**Syntax:**

|                  |           |
|------------------|-----------|
| <i>versionNo</i> | versionNo |
|------------------|-----------|

**Command Mode:** flow exporter : Configure Netflow Exporter

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# flow exporter <WORD> destination address <A.B.C.D or A:B::C:D> transport
udp <dstPort>
(config-tn-flow-exporter)# version <versionNo>
```

## version <versionNo>

**Description:** Configure version

**Syntax:**

|                  |           |
|------------------|-----------|
| <i>versionNo</i> | versionNo |
|------------------|-----------|

**Command Mode:** flow exporter : Configure Netflow Exporter

**Command Path:**

```
# configure [['terminal', 't']]
(config)# flow exporter <WORD> destination address <A.B.C.D or A:B::C:D> transport udp
<dstPort>
(config-flow-exporter)# version <versionNo>
```

**version <versionNo>****Description:** Configure version**Syntax:**

|                  |           |
|------------------|-----------|
| <i>versionNo</i> | versionNo |
|------------------|-----------|

**Command Mode:** flow vm-exporter : Configure NetFlow Exporter for VM Networking**Command Path:**

```
# configure [['terminal', 't']]
(config)# flow vm-exporter <WORD> destination address <A.B.C.D or A::B::C:D> transport udp
<dstPort>
(config-flow-vm-exporter)# version <versionNo>
```



# virtual-static-endpoint

**virtual-static-endpoint mac** *E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE* [**ip** <A.B.C.D>]

**Description:** Configure Virtual Static Endpoint under Epg

**Syntax:**

|                          |   |
|--------------------------|---|
| mac                      | MAC address                             |
| <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)                  |
| <i>A.B.C.D</i>           | (Optional) IP address in format i.i.i.i |

**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)# virtual-static-endpoint mac
E.E.E|EE-EE-EE-EE-EE-EE|EE:EE:EE:EE:EE:EE|EEEE.EEEE.EEEE [ip <A.B.C.D>]
```

# visore-access-enable

## visore-access-enable

**Description:** Enable HTTP visore access

**Command Mode:** http : HTTP communication policy group

### Command Path:

```
# configure [['terminal', 't']]
(config)# comm-policy <WORD>
(config-comm-policy)# http
(config-http)# visore-access-enable
```

## visore-access-enable

**Description:** Enable HTTPS visore access

**Command Mode:** https : HTTPS communication policy group

### Command Path:

```
# configure [['terminal', 't']]
(config)# comm-policy <WORD>
(config-comm-policy)# https
(config-https)# visore-access-enable
```

# vlan-domain

**vlan-domain <name> [dynamic] [type <domain-type>]**

**Description:** Configure vlan domain

**Syntax:**

|                        |  |
|------------------------|--|
| <i>name</i>            | Vlan domain name (Max Size 64)                         |
| dynamic                | (Optional) Create dynamic namespace(default is static) |
| < <i>domain-type</i> > | (Optional) Vlan domain type                            |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# vlan-domain <name> [dynamic] [type <domain-type>]
```

**vlan-domain member <WORD> [type <arg>]**

**Description:** Attach VMware Domain to a VLAN Domain

**Syntax:**

|             |                                   |
|-------------|-----------------------------------|
| member      | Bind VMware domain to vlan domain |
| <i>WORD</i> | VLAN Domain name                  |
| <i>arg</i>  | (Optional) Vlan domain type       |

**Command Mode:** vmware-domain : Create a VMM VMWare Domain

**Command Path:**

```
# configure [['terminal', 't']]
(config)# vmware-domain <WORD> [delimiter <WORD>] [access-mode <access-mode>]
(config-vmware)# vlan-domain member <WORD> [type <>]
```

**vlan-domain member <WORD> [type <arg>]**

**Description:** Attach Microsoft Domain to a VLAN Domain

**Syntax:**

|             |                                      |
|-------------|--------------------------------------|
| member      | Bind Microsoft domain to vlan domain |
| <i>WORD</i> | VLAN Domain name                     |
| <i>arg</i>  | (Optional) Vlan domain type          |

**Command Mode:** microsoft-domain : Create a VMM Microsoft Domain

**Command Path:**

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

**vlan-domain member <WORD> [type <arg>]**

**Description:** Attach Rhev Domain to a VLAN Domain

**Syntax:**

|             |                                 |
|-------------|---------------------------------|
| member      | Bind Rhev domain to vlan domain |
| <i>WORD</i> | VLAN Domain name                |
| <i>arg</i>  | (Optional) Vlan domain type     |

**Command Mode:** rhev-domain : Create a VMM Redhat Domain

**Command Path:**

```
# configure [['terminal', 't']]
(config)# rhev-domain <WORD> [delimiter <WORD>]
(config-redhat)# vlan-domain member <WORD> [type <>]
```

**vlan-domain member <WORD> [type <arg>]**

**Description:** Configure Vlan Domain

**Syntax:**

|             |                                |
|-------------|--------------------------------|
| member      | Configure Vlan Domain Member   |
| <i>WORD</i> | Vlan domain name (Max Size 64) |
| <i>arg</i>  | (Optional)                     |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template policy-group <WORD>
(config-pol-grp-if)# vlan-domain member <WORD> [type <>]
```

**vlan-domain member <WORD> [type <arg>]**

**Description:** Configure Vlan Domain

**Syntax:**

|        |                              |
|--------|------------------------------|
| member | Configure Vlan Domain Member |
|--------|------------------------------|

|             |                                |
|-------------|--------------------------------|
| <i>WORD</i> | Vlan domain name (Max Size 64) |
| <i>arg</i>  | (Optional)                     |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template port-channel <WORD>
(config-po-ch-if)# vlan-domain member <WORD> [type <>]
```

**vlan-domain member <WORD> [type <arg>]**

**Description:** Configure Vlan Domain

**Syntax:**

|             |                                |
|-------------|--------------------------------|
| member      | Configure Vlan Domain Member   |
| <i>WORD</i> | Vlan domain name (Max Size 64) |
| <i>arg</i>  | (Optional)                     |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template spine-interface-policy-group <WORD>
(config-spine-if-pol-grp)# vlan-domain member <WORD> [type <>]
```

**vlan-domain member <WORD> [type <arg>]**

**Description:** Configure Vlan Domain

**Syntax:**

|             |                                |
|-------------|--------------------------------|
| member      | Configure Vlan Domain Member   |
| <i>WORD</i> | Vlan domain name (Max Size 64) |
| <i>arg</i>  | (Optional)                     |

**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)# vlan-domain member <WORD> [type <>]
```

**vlan-domain member <WORD> [type <arg>]****Description:** Configure Vlan Domain**Syntax:**

|             |                                |
|-------------|--------------------------------|
| member      | Configure Vlan Domain Member   |
| <i>WORD</i> | Vlan domain name (Max Size 64) |
| <i>arg</i>  | (Optional)                     |

**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)# vlan-domain member <WORD> [type <>]
```

**vlan-domain member <WORD> [type <arg>]****Description:** Configure Vlan Domain**Syntax:**

|             |                                |
|-------------|--------------------------------|
| member      | Configure Vlan Domain Member   |
| <i>WORD</i> | Vlan domain name (Max Size 64) |
| <i>arg</i>  | (Optional)                     |

**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)# vlan-domain member <WORD> [type <>]
```

**vlan-domain member <WORD> [type <arg>]****Description:** Configure Vlan Domain**Syntax:**

|             |                                |
|-------------|--------------------------------|
| member      | Configure Vlan Domain Member   |
| <i>WORD</i> | Vlan domain name (Max Size 64) |
| <i>arg</i>  | (Optional)                     |

**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)# vlan-domain member <WORD> [type <>]
```

**vlan-domain member <WORD> [type <arg>]****Description:** Configure Vlan Domain**Syntax:**

|             |                                |
|-------------|--------------------------------|
| member      | Configure Vlan Domain Member   |
| <i>WORD</i> | Vlan domain name (Max Size 64) |
| <i>arg</i>  | (Optional)                     |

**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)# vlan-domain member <WORD> [type <>]
```

# vlan-pool

**vlan-pool** <pool-name>

**Description:** Assign vlan-pool to vlan-domain

**Syntax:**

|                  |                              |
|------------------|------------------------------|
| <i>pool-name</i> | Vlan-pool name (Max Size 64) |
|------------------|------------------------------|

**Command Mode:** vlan-domain : Configure vlan domain

**Command Path:**

```
# configure [['terminal', 't']]
(config)# vlan-domain <name> [dynamic] [type <domain-type>]
(config-vlan)# vlan-pool <pool-name>
```



# vlan-range

**vlan-range** <vlan-range>

**Description:** Configure VLAN ranges on trunk

**Syntax:**

|              |   |
|--------------|---|
| <vlan-range> | VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19 |
|--------------|---|

**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)# vlan-range <vlan-range>
```

# vlan

## vlan <vlan-range> [dynamic] [internal]

**Description:** Add VLANs to vlan-domain

**Syntax:**

|              |   |
|--------------|---|
| <vlan-range> | VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19                                   |
| dynamic      | (Optional) Vlan allocation dynamically managed by APIC(default is static)         |
| internal     | (Optional) Vlan encap block role dynamically managed by APIC(default is external) |

**Command Mode:** vlan-domain : Configure vlan domain

**Command Path:**

```
# configure [['terminal', 't']]
(config)# vlan-domain <name> [dynamic] [type <domain-type>]
(config-vlan)# vlan <vlan-range> [dynamic] [internal]
```

## vlan <vlan-range>

**Description:** Add VLANs to vlan-domain

**Syntax:**

|              |   |
|--------------|---|
| <vlan-range> | VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19 |
|--------------|---|

**Command Mode:** vsan-domain : Configure vsan domain

**Command Path:**

```
# configure [['terminal', 't']]
(config)# vsan-domain <name>
(config-vsan)# vlan <vlan-range>
```

## vlan <1-4094>

**Description:** Vlan encap for the Power Device

**Syntax:**

|          |                   |
|----------|-------------------|
| <1-4094> | Configure Vlan ID |
|----------|-------------------|

**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)# vlan <1-4094>
```

**vlan <1-4094>****Description:** Configure Vlan for inband epg Controller inband ports**Syntax:**

|          |                       |
|----------|-----------------------|
| <1-4094> | Vlan interface number |
|----------|-----------------------|

**Command Mode:** inband-mgmt : Enter Inside In-band management mode to modify inband properties or create new inband**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# inband-mgmt epg <WORD>
(config-inb-epg)# vlan <1-4094>
```

**vlan <1-4094>****Description:** Configure Vlan for APIC Inband Port**Syntax:**

|          |                       |
|----------|-----------------------|
| <1-4094> | Vlan interface number |
|----------|-----------------------|

**Command Mode:** interface inband-mgmt0 : Inband management interface**Command Path:**

```
# configure [['terminal', 't']]
(config)# controller
(config-controller)# interface inband-mgmt0
(config-controller-if)# vlan <1-4094>
```

## vmware-domain

**vmware-domain** <WORD> [delimiter <WORD>] [access-mode <access-mode>]

**Description:** Create a VMM VMWare Domain

**Syntax:**

|                    |  |
|--------------------|--|
| <i>WORD</i>        | VMM VMware Domain name                   |
| <i>WORD</i>        | (Optional) Custom Delimiter              |
| <i>access-mode</i> | (Optional) VMM VMware Domain Access Mode |

**Command Mode:** configure : Configuration Mode

**Command Path:**

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

**vmware-domain member** <WORD> [encap <WORD>] [primary-encap <WORD>] [allow-micro-segmentation] [deploy <WORD>] [push <WORD>] [binding-type staticBinding|dynamicBinding|ephemeral] [port-allocation fixed|elastic] [num-ports <WORD>] [delimiter <WORD>]

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

**Syntax:**

|                          |  |
|--------------------------|--|
| member                   | Bind the EPG to a VMware domain  |
| <i>WORD</i>              | VMware 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)                        |
| allow-micro-segmentation | (Optional) allow-micro-segmentation  |
| <i>WORD</i>              | (Optional) Deployment mode   |
| <i>WORD</i>              | (Optional) Push mode   |
| <i>staticBinding</i>     | (Optional) Binding Type  |
| <i>dynamicBinding</i>    | (Optional) Binding Type  |
| <i>ephemeral</i>         | (Optional) Binding Type  |
| <i>fixed</i>             | (Optional) Port Allocation   |

|                |                             |
|----------------|-----------------------------|
| <i>elastic</i> | (Optional) Port Allocation  |
| <i>WORD</i>    | (Optional) Number of ports  |
| <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)# vmware-domain member <WORD> [encap <WORD>] [primary-encap <WORD>]
[allow-micro-segmentation] [deploy <WORD>] [push <WORD>] [binding-type
staticBinding|dynamicBinding|ephemeral] [port-allocation fixed|elastic] [num-ports <WORD>]
[delimiter <WORD>]
```

# vnic

**vnic** <vnic-name>

**Description:** Configure Virtual NIC as Cluster Member Interface

**Syntax:**

|             |   |
|-------------|---|
| <vnic-name> | Name of VNIC of virtual cluster device. |
|-------------|---|

**Command Mode:** member : Configure Cluster Interface Member

**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>
(config-member)# vnic <vnic-name>
```

# vpc context

**vpc context leaf <101-4000> <101-4000> [fex <fex>]**

**Description:** Enter vpc context

**Syntax:**

|            |   |
|------------|---|
| leaf       | Provide leaf details                            |
| <101-4000> | Id or Name of Leaf1                             |
| <101-4000> | Id or Name of Leaf2                             |
| fex        | (Optional) Fex Id. Number range from=101 to=199 |

**Command Mode:** configure : Configuration Mode

**Command Path:**

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

# vpc domain consecutive

## vpc domain consecutive

**Description:** Pair all discovered leaves consecutively e.g. 101-102, 103-104

**Command Mode:** configure : Configuration Mode

### Command Path:

```
# configure [['terminal', 't']]  
(config)# vpc domain consecutive
```



# vpc domain explicit

**vpc domain explicit** <NUMBER> leaf <101-4000> <101-4000>

**Description:** Pair two leaf nodes explicitly

**Syntax:**

|            |  |
|------------|--|
| <1-1000>   | Domain Id. Number range from=1 to=1000 |
| leaf       | Pair two leaf nodes                    |
| <101-4000> | First leaf member of the Pair          |
| <101-4000> | Second leaf member of the Pair         |

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]
(config)# vpc domain explicit <NUMBER> leaf <101-4000> <101-4000>
```

# vpc domain reciprocal

## vpc domain reciprocal

**Description:** Pair all discovered leaves reciprocally e.g. 101-103, 102-104

**Command Mode:** configure : Configuration Mode

### Command Path:

```
# configure [['terminal', 't']]  
(config)# vpc domain reciprocal
```

# vrf-blacklist-mode

## **vrf-blacklist-mode**

**Description:** Forwarding model for EPG (whitelist vs blacklist)

**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)# vrf-blacklist-mode
```

## vrf

**vrf context <WORD>****Description:** Configuration for vrf**Syntax:**

|             |                        |
|-------------|------------------------|
| context     | VRF name               |
| <i>WORD</i> | VRF name (Max Size 64) |

**Command Mode:** tenant : Tenant configuration mode**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# vrf context <WORD>
```

**vrf member <WORD>****Description:** Configure VRF parameters**Syntax:**

|             |                            |
|-------------|----------------------------|
| member      | Set L3Out's VRF membership |
| <i>WORD</i> | VRF name                   |

**Command Mode:** l3out : Configuration for L3Out**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# l3out <WORD>
(config-tenant-l3out)# vrf member <WORD>
```

**vrf member <WORD>****Description:** Associate the bridge-domain with a VRF**Syntax:**

|             |  |
|-------------|--|
| member      | Associate the bridge-domain with a VRF |
| <i>WORD</i> | VRF name to associated (Max Size 64)   |

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

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

**vrf member <WORD>****Description:** Configure VRF parameters**Syntax:**

|             |                                |
|-------------|--------------------------------|
| member      | Set interface's VRF membership |
| <i>WORD</i> | VRF name                       |

**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)# vrf member <WORD>
```

**vrf member tenant <WORD> vrf <WORD>****Description:** Configure VRF**Syntax:**

|             |                           |
|-------------|---------------------------|
| member      | member                    |
| tenant      | Tenant Name               |
| <i>WORD</i> | Tenant name (Max Size 63) |
| vrf         | Vrf Name                  |
| <i>WORD</i> | VRF name (Max Size 64)    |

**Command Mode:** flow exporter : Configure Netflow Exporter**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# flow exporter <WORD> destination address <A.B.C.D or A:B::C:D> transport
udp <dstPort>
(config-tn-flow-exporter)# vrf member tenant <WORD> vrf <WORD>
```

**vrf context tenant <WORD> vrf <WORD> [l3out <l3out>]****Description:** Configure VRF parameters**Syntax:**

|              |   |
|--------------|---|
| context      | Enable VRF and enter VRF mode                 |
| tenant       | Tenant for the VRF                            |
| <i>WORD</i>  | Tenant name                                   |
| vrf          | Virtual Routing and Forwarding instance       |
| <i>WORD</i>  | VRF name                                      |
| <i>l3out</i> | (Optional) Configure VRF in API created l3out |

**Command Mode:** leaf : Configure Leaf Node

**Command Path:**

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

**vrf member tenant <WORD> vrf <WORD>**

**Description:** Configure VRF parameters

**Syntax:**

|             |   |
|-------------|---|
| member      | Set interface's VRF membership          |
| tenant      | Tenant                                  |
| <i>WORD</i> | Tenant name                             |
| vrf         | Virtual Routing and Forwarding instance |
| <i>WORD</i> | VRF name                                |

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# vrf member tenant <WORD> vrf <WORD>
```

**vrf member tenant <WORD> vrf <WORD> [l3out] WORD**

**Description:** Configure VRF parameters

**Syntax:**

|        |                                |
|--------|--------------------------------|
| member | Set interface's VRF membership |
| tenant | Tenant                         |

|             |   |
|-------------|---|
| <i>WORD</i> | Tenant name                                   |
| vrf         | Virtual Routing and Forwarding instance       |
| <i>WORD</i> | VRF name                                      |
| l3out       | (Optional) Enable VRF on one or more l3extOut |
| <i>WORD</i> | l3extOut Name                                 |

**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)# vrf member tenant <WORD> vrf <WORD> [l3out] WORD
```

**vrf member tenant <WORD> vrf <WORD> [l3out] WORD**

**Description:** Configure VRF parameters

**Syntax:**

|             |   |
|-------------|---|
| member      | Set interface's VRF membership                |
| tenant      | Tenant  |
| <i>WORD</i> | Tenant name                                   |
| vrf         | Virtual Routing and Forwarding instance       |
| <i>WORD</i> | VRF name                                      |
| l3out       | (Optional) Enable VRF on one or more l3extOut |
| <i>WORD</i> | l3extOut Name                                 |

**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)# vrf member tenant <WORD> vrf <WORD> [l3out] WORD
```

**vrf member tenant <WORD> vrf <WORD>**

**Description:** Configure VRF information

**Syntax:**

|        |                    |
|--------|--------------------|
| member | Set VRF membership |
|--------|--------------------|

|             |             |
|-------------|-------------|
| tenant      | Tenant      |
| <i>WORD</i> | Tenant name |
| vrf         | VRF         |
| <i>WORD</i> | VRF name    |

**Command Mode:** router eigrp : Enhanced Interior Gateway Routing Protocol (EIGRP)

**Command Path:**

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

**vrf member tenant <WORD> vrf <WORD>**

**Description:** Associate Router OSPF Policy with Tenant/VRF

**Syntax:**

|             |                            |
|-------------|----------------------------|
| member      | Set VRF membership         |
| tenant      | Tenant for the OSPF Policy |
| <i>WORD</i> | Tenant name                |
| vrf         | VRF                        |
| <i>WORD</i> | VRF name                   |

**Command Mode:** router ospf : Open Shortest Path First (OSPF and OSPF Version3)

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# router ospf default|multipod-internal
(config-leaf-ospf)# vrf member tenant <WORD> vrf <WORD>
```

**vrf member tenant <WORD> vrf <WORD>**

**Description:** Virtual Router Context

**Syntax:**

|             |   |
|-------------|---|
| member      | Set BGP's VRF membership                |
| tenant      | Tenant for the BGP Policy               |
| <i>WORD</i> | Tenant Name (Max Size 63)               |
| vrf         | Virtual Routing and Forwarding instance |



|             |                        |
|-------------|------------------------|
| <i>WORD</i> | VRF Name (Max Size 64) |
|-------------|------------------------|

**Command Mode:** router bgp : Border Gateway Protocol (BGP)

**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# router bgp <fabric-ASN>
(config-leaf-bgp)# vrf member tenant <WORD> vrf <WORD>
```

**vrf context tenant <WORD> vrf <WORD> [l3out <l3out>]**

**Description:** Configure VRF parameters

**Syntax:**

|              |   |
|--------------|---|
| context      | Enable VRF and enter VRF mode                 |
| tenant       | Tenant for the VRF                            |
| <i>WORD</i>  | Tenant name                                   |
| vrf          | Virtual Routing and Forwarding instance       |
| <i>WORD</i>  | VRF name                                      |
| <i>l3out</i> | (Optional) Configure VRF in API created l3out |

**Command Mode:** spine : Configure Spine Node

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# vrf context tenant <WORD> vrf <WORD> [l3out <l3out>]
```

**vrf member tenant <WORD> vrf <WORD>**

**Description:** Configure VRF parameters

**Syntax:**

|             |   |
|-------------|---|
| member      | Set interface's VRF membership          |
| tenant      | Tenant                                  |
| <i>WORD</i> | Tenant name                             |
| vrf         | Virtual Routing and Forwarding instance |
| <i>WORD</i> | VRF name                                |

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

**Command Path:**

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

**vrf member tenant <WORD> vrf <WORD> [l3out] WORD****Description:** Configure VRF parameters**Syntax:**

|        |   |
|--------|---|
| member | Set interface's VRF membership                |
| tenant | Tenant  |
| WORD   | Tenant name                                   |
| vrf    | Virtual Routing and Forwarding instance       |
| WORD   | VRF name                                      |
| l3out  | (Optional) Enable VRF on one or more l3extOut |
| WORD   | l3extOut Name                                 |

**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)# vrf member tenant <WORD> vrf <WORD> [l3out] WORD
```

**vrf member tenant <WORD> vrf <WORD> [l3out] WORD****Description:** Configure VRF parameters**Syntax:**

|        |   |
|--------|---|
| member | Set interface's VRF membership                |
| tenant | Tenant  |
| WORD   | Tenant name                                   |
| vrf    | Virtual Routing and Forwarding instance       |
| WORD   | VRF name                                      |
| l3out  | (Optional) Enable VRF on one or more l3extOut |
| WORD   | l3extOut Name                                 |

**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)# vrf member tenant <WORD> vrf <WORD> [l3out] WORD
```

**vrf member tenant <WORD> vrf <WORD>**

**Description:** Configure VRF information

**Syntax:**

|        |                    |
|--------|--------------------|
| member | Set VRF membership |
| tenant | Tenant             |
| WORD   | Tenant name        |
| vrf    | VRF                |
| WORD   | VRF name           |

**Command Mode:** router eigrp : Enhanced Interior Gateway Routing Protocol (EIGRP)

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# router eigrp default
(config-eigrp)# vrf member tenant <WORD> vrf <WORD>
```

**vrf member tenant <WORD> vrf <WORD>**

**Description:** Associate Router OSPF Policy with Tenant/VRF

**Syntax:**

|        |                            |
|--------|----------------------------|
| member | Set VRF membership         |
| tenant | Tenant for the OSPF Policy |
| WORD   | Tenant name                |
| vrf    | VRF                        |
| WORD   | VRF name                   |

**Command Mode:** router ospf : Open Shortest Path First (OSPF and OSPF Version3)

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
```

```
(config-spine)# router ospf default|multipod-internal
(config-leaf-ospf)# vrf member tenant <WORD> vrf <WORD>
```

### **vrf member tenant <WORD> vrf <WORD>**

**Description:** Virtual Router Context

**Syntax:**

|             |   |
|-------------|---|
| member      | Set BGP's VRF membership                |
| tenant      | Tenant for the BGP Policy               |
| <i>WORD</i> | Tenant Name (Max Size 63)               |
| vrf         | Virtual Routing and Forwarding instance |
| <i>WORD</i> | VRF Name (Max Size 64)                  |

**Command Mode:** router bgp : Border Gateway Protocol (BGP)

**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# router bgp <fabric-ASN>
(config-leaf-bgp)# vrf member tenant <WORD> vrf <WORD>
```

### **vrf member tenant <WORD> vrf <WORD>**

**Description:** Configure VRF

**Syntax:**

|             |                           |
|-------------|---------------------------|
| member      | member                    |
| tenant      | Tenant Name               |
| <i>WORD</i> | Tenant name (Max Size 63) |
| vrf         | Vrf Name                  |
| <i>WORD</i> | VRF name (Max Size 64)    |

**Command Mode:** flow exporter : Configure Netflow Exporter

**Command Path:**

```
# configure [['terminal', 't']]
(config)# flow exporter <WORD> destination address <A.B.C.D or A:B::C:D> transport udp
<dstPort>
(config-flow-exporter)# vrf member tenant <WORD> vrf <WORD>
```

**vrf member tenant <WORD> vrf <WORD>**

**Description:** Configure VRF

**Syntax:**

|             |                           |
|-------------|---------------------------|
| member      | member                    |
| tenant      | Tenant Name               |
| <i>WORD</i> | Tenant name (Max Size 63) |
| vrf         | Vrf Name                  |
| <i>WORD</i> | VRF name (Max Size 64)    |

**Command Mode:** flow vm-exporter : Configure NetFlow Exporter for VM Networking

**Command Path:**

```
# configure [['terminal', 't']]
(config)# flow vm-exporter <WORD> destination address <A.B.C.D or A:B::C:D> transport udp
<dstPort>
(config-flow-vm-exporter)# vrf member tenant <WORD> vrf <WORD>
```

# vsan-domain

## vsan-domain <name>

**Description:** Configure vsan domain

### Syntax:

|             |                                |
|-------------|--------------------------------|
| <i>name</i> | Vsan domain name (Max Size 64) |
|-------------|--------------------------------|

**Command Mode:** configure : Configuration Mode

### Command Path:

```
# configure [['terminal', 't']]
(config)# vsan-domain <name>
```

## vsan-domain member <WORD>

**Description:** Associate Vsan Domain

### Syntax:

|             |                                |
|-------------|--------------------------------|
| member      | Configure Vsan Domain Member   |
| <i>WORD</i> | Vsan domain name (Max Size 64) |

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

### Command Path:

```
# configure [['terminal', 't']]
(config)# template fc-policy-group <WORD>
(config-fc-pol-grp-if)# vsan-domain member <WORD>
```

## vsan-domain member <WORD>

**Description:** Associate Vsan Domain

### Syntax:

|             |                                |
|-------------|--------------------------------|
| member      | Configure Vsan Domain Member   |
| <i>WORD</i> | Vsan domain name (Max Size 64) |

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

### Command Path:

```
# configure [['terminal', 't']]
(config)# template fc-port-channel <WORD>
(config-fc-po-ch-if)# vsan-domain member <WORD>
```

**vsan-domain member <WORD>****Description:** Associate Vsan Domain**Syntax:**

|             |                                |
|-------------|--------------------------------|
| member      | Configure Vsan Domain Member   |
| <i>WORD</i> | Vsan domain name (Max Size 64) |

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

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

**vsan-domain member <WORD>****Description:** Associate Vsan Domain**Syntax:**

|             |                                |
|-------------|--------------------------------|
| member      | Configure Vsan Domain Member   |
| <i>WORD</i> | Vsan domain name (Max Size 64) |

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

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

**vsan-domain member <WORD>****Description:** Associate Vsan Domain**Syntax:**

|             |                                |
|-------------|--------------------------------|
| member      | Configure Vsan Domain Member   |
| <i>WORD</i> | Vsan domain name (Max Size 64) |

**Command Mode:** interface vfc : Virtual Fiber Channel interface**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vfc <ifRange>
(config-leaf-if)# vsan-domain member <WORD>
```

**vsan-domain member <WORD>****Description:** Associate Vsan Domain**Syntax:**

|             |                                |
|-------------|--------------------------------|
| member      | Configure Vsan Domain Member   |
| <i>WORD</i> | Vsan domain name (Max Size 64) |

**Command Mode:** interface vfc-po : VFC Port Channel interface**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vfc-po <WORD> [fex <fex>]
(config-leaf-if)# vsan-domain member <WORD>
```

**vsan-domain member <WORD>****Description:** Associate Vsan Domain**Syntax:**

|             |                                |
|-------------|--------------------------------|
| member      | Configure Vsan Domain Member   |
| <i>WORD</i> | Vsan domain name (Max Size 64) |

**Command Mode:** interface fc : FC Interface**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface fc <ifRange>
(config-leaf-fc-if)# vsan-domain member <WORD>
```

**vsan-domain member <WORD>****Description:** Associate Vsan Domain**Syntax:**

|             |                                |
|-------------|--------------------------------|
| member      | Configure Vsan Domain Member   |
| <i>WORD</i> | Vsan domain name (Max Size 64) |

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

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface fc-port-channel <WORD>
(config-leaf-fc-pc)# vsan-domain member <WORD>
```



**vsan-domain member <WORD>****Description:** Associate Vsan Domain**Syntax:**

|             |                                |
|-------------|--------------------------------|
| member      | Configure Vsan Domain Member   |
| <i>WORD</i> | Vsan domain name (Max Size 64) |

**Command Mode:** interface vfc : Virtual Fiber Channel interface**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vfc <ifRange>
(config-leaf-if)# vsan-domain member <WORD>
```

**vsan-domain member <WORD>****Description:** Associate Vsan Domain**Syntax:**

|             |                                |
|-------------|--------------------------------|
| member      | Configure Vsan Domain Member   |
| <i>WORD</i> | Vsan domain name (Max Size 64) |

**Command Mode:** interface vfc-po : VFC Port Channel interface**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vfc-po <WORD> [fex <fex>]
(config-leaf-if)# vsan-domain member <WORD>
```

**vsan-domain member <WORD>****Description:** Associate Vsan Domain**Syntax:**

|             |                                |
|-------------|--------------------------------|
| member      | Configure Vsan Domain Member   |
| <i>WORD</i> | Vsan domain name (Max Size 64) |

**Command Mode:** interface fc : FC Interface**Command Path:**

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface fc <ifRange>
(config-leaf-fc-if)# vsan-domain member <WORD>
```

**vsan-domain member <WORD>****Description:** Associate Vsan Domain**Syntax:**

|             |                                |
|-------------|--------------------------------|
| member      | Configure Vsan Domain Member   |
| <i>WORD</i> | Vsan domain name (Max Size 64) |

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

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface fc-port-channel <WORD>
(config-leaf-fc-pc)# vsan-domain member <WORD>
```

**vsan-domain member <WORD>****Description:** Associate Vsan Domain**Syntax:**

|             |                                |
|-------------|--------------------------------|
| member      | Configure Vsan Domain Member   |
| <i>WORD</i> | Vsan domain name (Max Size 64) |

**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)# vsan-domain member <WORD>
```

# vsan

**vsan <vsan-range>**

**Description:** Add VSANs to vsan-domain

**Syntax:**

|                           |   |
|---------------------------|---|
| <i>&lt;vsan-range&gt;</i> | VSAN ID 1-4093 or range(s): 1-5, 10 or 2-5,7-19 |
|---------------------------|---|

**Command Mode:** vsan-domain : Configure vsan domain

**Command Path:**

```
# configure [['terminal', 't']]
(config)# vsan-domain <name>
(config-vsan)# vsan <vsan-range>
```

# vxlan

## vxlan multicast-pool <ip-range>

**Description:** Configure VXLAN multicast pool.

**Syntax:**

|                |                    |
|----------------|--------------------|
| multicast-pool | multicast pool     |
| <ip-range>     | Multicast IP range |

**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)# vxlan multicast-pool <ip-range>
```

## vxlan multicast-pool <ip-range>

**Description:** Configure VXLAN multicast pool.

**Syntax:**

|                |                    |
|----------------|--------------------|
| multicast-pool | multicast pool     |
| <ip-range>     | Multicast IP range |

**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)# vxlan multicast-pool <ip-range>
```



## W Commands

---

- [webtoken-timeout-seconds](#), on page 2780
- [weight](#), on page 2781
- [where](#), on page 2783
- [where detail](#), on page 2784
- [whitelist-blacklist-mix](#), on page 2785
- [window-size](#), on page 2786
- [winservers](#), on page 2787

# webtoken-timeout-seconds

**webtoken-timeout-seconds** <NUMBER>

**Description:** Set The web token timeout interval

**Syntax:**

|            |   |
|------------|---|
| <300-9600> | Set The web token timeout interval. Number range from=300 to=9600 |
|------------|---|

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

**Command Path:**

```
# configure [['terminal', 't']]
(config)# crypto webtoken
(config-webtoken)# webtoken-timeout-seconds <NUMBER>
```

# weight

## weight <weightValue>

**Description:** Set WRED Probability

**Syntax:**

|                    |   |
|--------------------|---|
| <i>weightValue</i> | Set WRED Weight. Number range from=0 to=7 |
|--------------------|---|

**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)# weight <weightValue>
```

## weight <NUMBER>

**Description:** Weight attribute that is local to a router.

**Syntax:**

|           |   |
|-----------|---|
| <0-65535> | Assigns a weight to all routes learned through the neighbor. Number range from=0 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)# weight <NUMBER>
```

## weight <NUMBER>

**Description:** Weight attribute that is local to a router.

**Syntax:**

|           |   |
|-----------|---|
| <0-65535> | Assigns a weight to all routes learned through the neighbor. Number range from=0 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)# weight <NUMBER>
```



# where

**where**

**Description:** Show the current mode

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# where
```

# where detail

**where detail**

**Description:** Show detailed mode information

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# where detail
```

# whitelist-blacklist-mix

## whitelist-blacklist-mix

**Description:** WhiteList/BlackList mode coexistence

**Command Mode:** vrf : Configuration for vrf

**Command Path:**

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# vrf context <WORD>
(config-tenant-vrf)# whitelist-blacklist-mix
```

# window-size

**window-size** <NUMBER>

**Description:** Configure the replay protection window size

**Syntax:**

|                |  |
|----------------|--|
| <0-4294967295> | window size. Number range from=0 to=4294967295 |
|----------------|--|

**Command Mode:** template macsec access|fabric security-policy : Configure MAC security policy parameters

**Command Path:**

```
# configure [['terminal', 't']]
(config)# template macsec access|fabric security-policy <WORD>
(config-macsec-param)# window-size <NUMBER>
```

# winservers

**winservers** <windows server ip>

**Description:** Add windows server

**Syntax:**

|                          |                   |
|--------------------------|-------------------|
| <i>windows server ip</i> | windows server ip |
|--------------------------|-------------------|

**Command Mode:** microsoft : Configure static IP pool

**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>
(config-tenant-app-epg-ms-ip-pool)# winservers <windows server ip>
```





## Z Commands

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- [zone](#), on page 2790
- [zones](#), on page 2791

# zone

**zone** <WORD>

**Description:** Create zone policy

**Syntax:**

|             |                         |
|-------------|-------------------------|
| <i>WORD</i> | zone name (Max Size 64) |
|-------------|-------------------------|

**Command Mode:** zones : Zones configuration Mode

**Command Path:**

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



# zones

## zones

**Description:** Zones configuration Mode

**Command Mode:** configure : Configuration Mode

**Command Path:**

```
# configure [['terminal', 't']]  
(config)# zones
```

