



C Commands

- [callhome](#), on page 4
- [callhome test info notice emergency alert critical error debug warning node](#), on page 5
- [catalog-version](#), on page 6
- [cdp](#), on page 7
- [cert-chain](#), on page 11
- [cert](#), on page 12
- [certificate](#), on page 13
- [channel-group](#), on page 14
- [channel-mode](#), on page 16
- [cif](#), on page 19
- [cipher-suite](#), on page 20
- [ciphers](#), on page 21
- [clear-encryption-key](#), on page 22
- [clear-pwd-history](#), on page 23
- [clear core-status controller](#), on page 24
- [clear core-status switch](#), on page 25
- [clear core controller](#), on page 26
- [clear core switch](#), on page 27
- [clear endpoints leaf tenant bridge-domain](#), on page 28
- [clear endpoints leaf tenant bridge-domain vlan](#), on page 29
- [clear endpoints leaf tenant vrf](#), on page 30
- [clear firmware](#), on page 31
- [clear snapshot file](#), on page 32
- [clear snapshot job](#), on page 33
- [clear techsupport controllers](#), on page 34
- [clear techsupport switch](#), on page 35
- [clear tenant](#), on page 36
- [clear tenant bridge-domain](#), on page 37
- [clear tenant bridge-domain first-hop-security statistics arp](#), on page 38
- [clear tenant bridge-domain first-hop-security statistics dhcpv4](#), on page 39
- [clear tenant bridge-domain first-hop-security statistics dhcpv6](#), on page 40
- [clear tenant bridge-domain first-hop-security statistics neighbor-discovery](#), on page 41
- [clear tenant bridge-domain first-hop-security violation-event all](#), on page 42

- clear tenant bridge-domain first-hop-security violation-event feature, on page 43
- clear troubleshoot report, on page 44
- cli-only-mode-enable, on page 45
- client-cert-ca, on page 46
- client-cert-state-enable, on page 47
- clock display-format, on page 48
- clock show-offset, on page 49
- clock timezone, on page 50
- cluster-device, on page 51
- cluster-interface, on page 52
- collect, on page 53
- comm-policy, on page 54
- community-list expanded, on page 55
- community-list standard, on page 56
- compatibility-check, on page 57
- conf-offset, on page 58
- config-file, on page 59
- configure-ave, on page 60
- configure-avs, on page 61
- configure-dvs, on page 62
- configure, on page 63
- connection intra-service, on page 64
- connection intra-service service1 connector1 service2 connector2 copyservice, on page 65
- connection terminal provider consumer service, on page 66
- connection terminal provider consumer service connector copyservice, on page 67
- connection terminal provider consumer terminal provider consumer copyservice, on page 68
- connector, on page 69
- console, on page 70
- consumer, on page 71
- consumption, on page 72
- contract-id, on page 73
- contract, on page 74
- contract consumer, on page 75
- contract deny, on page 78
- contract enforce, on page 80
- contract intra-epg, on page 81
- contract provider, on page 82
- control-plane-policing-prefilter, on page 85
- controller-group, on page 86
- controller, on page 87
- coop-fabric, on page 88
- coop, on page 89
- copp-aggr, on page 90
- cos enable, on page 91
- cos value, on page 92
- cost, on page 93

- [country](#), on page 94
- [crypto aes](#), on page 95
- [crypto ca](#), on page 96
- [crypto keyring](#), on page 97
- [crypto webtoken](#), on page 98
- [csr](#), on page 99
- [customer-id](#), on page 100

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
```

cif

cif cluster <WORD> device <WORD> device-interface <WORD>

Description: Configure Relation to Cluster Interface

Syntax:

cluster	logical cluster
<i>WORD</i>	Logical Cluster name (Max Size 64)
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: l1l2redir-dest : Configure l1l2redirect destination

Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# svcredir-pol <WORD>
(svcredir-pol)# l1l2redir-dest <WORD>
(config-l1l2redir-dest)# cif cluster <WORD> device <WORD> device-interface <WORD>
```

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> ptag <WORD>

Description: Specify FHS Violation feature type

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)
<i>WORD</i>	Specify FHS Violation feature type
origin	Specify FHS Violation origin type
<i>WORD</i>	Specify FHS Violation origin type
type	Specify FHS Violation type
<i>WORD</i>	Specify FHS Violation type
ip	Specify FHS Violation EndPoint Ip
<i>WORD</i>	Specify FHS Violation EndPoint Ip
mac	Specify FHS Violation EndPoint MAC
<i>WORD</i>	Specify FHS Violation EndPoint MAC
ptag	Specify FHS Violation EndPoint PC Tag
<i>WORD</i>	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> ptag <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>
```

cli-only-mode-enable

cli-only-mode-enable

Description: Enable HTTP CLI only mode

Command Mode: http : HTTP communication policy group

Command Path:

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

cli-only-mode-enable

Description: Enable HTTPS CLI only mode

Command Mode: https : HTTPS communication policy group

Command Path:

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

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 (NIK) 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: 1417 graph : Configure L4-L7 Service Graph

Command Path:

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

<i>WORD</i>	Connector name (Max Size 64)
<i>WORD</i>	(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> <severity-value>	(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: epq : AEPg configuration mode

Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# application <WORD>
(config-tenant-app)# epq <WORD> [type <WORD>]
(config-tenant-app-epq)# 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><contractName></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:

<code><contractName></code>	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:

<code>WORD</code>	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:

<code>WORD</code>	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>
```