



## C Commands

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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 alert|critical|debug|emergency|error|info|notice|warning

**Description:** Send callhome test message

**Syntax:**

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

**Command Mode:** exec : Exec Mode

**Command Path:**

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

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

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

**Description:** Source node

**Syntax:**

test	Send callhome test message
alert	Alert
critical	Critical
debug	Debug
emergency	Emergency
error	Error
info	Info
notice	Notice
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 alert|critical|debug|emergency|error|info|notice|warning node <Source node>
```

# 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>]
[number-of-uplinks <number-of-uplinks>]
(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>]
[number-of-uplinks <number-of-uplinks>]
(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>]
[number-of-uplinks <number-of-uplinks>]
(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|mac-pin-nicload|explicit-failover**

**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
mac-pin-nicload	Set channeling mode to MAC-PIN-NICLOAD
explicit-failover	Set channeling mode to use EXPLICIT-FAILOVER

**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>]
[number-of-uplinks <number-of-uplinks>]
(config-vmware)# configure-dvs
(config-vmware-dvs)# channel-mode
on|active|passive|mac-pinning|mac-pin-nicload|explicit-failover
```

**channel-mode on|active|passive|mac-pinning|mac-pin-nicload|explicit-failover**

**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
mac-pin-nicload	Set channeling mode to MAC-PIN-NICLOAD
explicit-failover	Set channeling mode to use EXPLICIT-FAILOVER

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

**Command Path:**

```
# configure [['terminal', 't']]
```

```
(config)# vmware-domain <WORD> [delimiter <WORD>] [access-mode <access-mode>]
[number-of-uplinks <number-of-uplinks>]
(config-vmware)# configure-avs
(config-vmware-avs)# channel-mode
on|active|passive|mac-pinning|mac-pin-nicload|explicit-failover
```

### channel-mode on|active|passive|mac-pinning|mac-pin-nicload|explicit-failover

**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
mac-pin-nicload	Set channeling mode to MAC-PIN-NICLOAD
explicit-failover	Set channeling mode to use EXPLICIT-FAILOVER

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

#### Command Path:

```
# configure [['terminal', 't']]
(config)# vmware-domain <WORD> [delimiter <WORD>] [access-mode <access-mode>]
[number-of-uplinks <number-of-uplinks>]
(config-vmware)# configure-ave
(config-vmware-ave)# channel-mode
on|active|passive|mac-pinning|mac-pin-nicload|explicit-failover
```

### channel-mode on|active|passive|mac-pinning|mac-pin-nicload|explicit-failover

**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
mac-pin-nicload	Set channeling mode to MAC-PIN-NICLOAD
explicit-failover	Set channeling mode to use EXPLICIT-FAILOVER

**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|mac-pin-nicload|explicit-failover
```

### **channel-mode on|active|passive|mac-pinning|mac-pin-nicload|explicit-failover**

**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
mac-pin-nicload	Set channeling mode to MAC-PIN-NICLOAD
explicit-failover	Set channeling mode to use EXPLICIT-FAILOVER

**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|mac-pin-nicload|explicit-failover
```

### **channel-mode on|active|passive|mac-pinning|mac-pin-nicload|explicit-failover**

**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
mac-pin-nicload	Set channeling mode to MAC-PIN-NICLOAD
explicit-failover	Set channeling mode to use EXPLICIT-FAILOVER

**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|mac-pin-nicload|explicit-failover
```

### **channel-mode on|active|passive|mac-pinning|mac-pin-nicload|explicit-failover**

**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
mac-pin-nicload	Set channeling mode to MAC-PIN-NICLOAD
explicit-failover	Set channeling mode to use EXPLICIT-FAILOVER

**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|mac-pin-nicload|explicit-failover
```

# cif

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

**Description:** Configure Relation to Cluster Interface

**Syntax:**

cluster	logical cluster
WORD	Logical Cluster name (Max Size 64)
device	Cluster Device
WORD	Cluster Device name (Max Size 64)
device-interface	Cluster Device Interface
WORD	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>
(svcdir-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-all

**clear core switch-all**

**Description:** Clear core for all nodes

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# clear core switch-all
```

# clear core switch-range

**clear core switch-range**

**Description:** Clear core for range of nodes

**Syntax:**

<i>arg</i>	Leaf Range or Leaf Name List
------------	------------------------------

**Command Mode:** exec : Exec Mode

**Command Path:**

```
# clear core switch-range
```

# 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>]
[number-of-uplinks <number-of-uplinks>]
(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>]
[number-of-uplinks <number-of-uplinks>]
(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>]
[number-of-uplinks <number-of-uplinks>]
(config-vmware)# configure-dvs
```

# configure-nsx

## configure-nsx

**Description:** Configure a Cisco NSX 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>]
[number-of-uplinks <number-of-uplinks>]
(config-vmware)# configure-nsx
```

# 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:** 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> 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=60000
--------------------	---

**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 <4000-60000>**

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

**Syntax:**

<i>&lt;4000-60000&gt;</i>	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 <4000-60000>
```

# 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:**

WORD	Whitelist contract to consume (Max Size 64)
WORD	(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:**

WORD	Whitelist contract to consume (Max Size 64)
imported	(Optional) used for contracts imported from other tenants
WORD	(Optional) Per-Contract label (Max Size 64)
WORD	(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** <WORD> [imported] [label <WORD>] [qos-class <WORD>]

**Description:** Add a contract consumed by this AEPg, along with an optional list of subject labels

**Syntax:**

WORD	Whitelist contract to consume (Max Size 64)
------	---

imported	(Optional) used for contracts imported from other tenants
WORD	(Optional) Per-Contract label (Max Size 64)
WORD	(Optional) Qos Level

**Command Mode:** esg : ESg configuration mode

**Command Path:**

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

WORD	Whitelist contract to consume (Max Size 64)
imported	(Optional) used for contracts imported from other tenants
WORD	(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 intra-epg <contractName>**

**Description:** Add an Intra-EPg contract

**Syntax:**

<i>&lt;contractName&gt;</i>	Intra-EPg 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 intra-epg <contractName>
```

# 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 <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:** esg : ESg configuration mode

**Command Path:**

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

<i>&lt;contractName&gt;</i>	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:**

<contractName>	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>]
[untagged-access-pg] [custom-epg-name "<custom_name>"] [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>]
[untagged-access-pg] [custom-epg-name "<custom_name>"] [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
```

## custom-epg-name

**custom-epg-name "<custom\_name>"**

**Description:** Configure a custom name for the ACI created port-group, replacing the default tenant|app|epg format. Please enclose the name in single or double quotes at the time of creation, to escape an special bash characters. Example: custom-epg-name "123|123"

**Syntax:**

"<custom_name>"	Custom name for the corresponding port-group. Please enclose the name in single or double quotes, to escape an special bash characters. Example: custom-epg-name "123 123"
-----------------	--

**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>]
[untagged-access-pg] [custom-epg-name "<custom_name>"] [delimiter <WORD>]
(config-tenant-app-epg-domain)# custom-epg-name "<custom_name>"
```

# 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>
```