C Commands

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
```

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>
(config-vmware)# configure-dvs
(config-vmware-dvs)# cdp enable|default
```

cdp enable|default

Description: Configure CDP parameters on AVS 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>
(config-vmware)# configure-avs
(config-vmware-avs)# 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-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)# 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 : 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:

WORD	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:

WORD	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:

WORD	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:

WORD	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-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>
(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 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 (N1K) type

Command Path:

```
# configure [['terminal', 't']]
(config)# vmware-domain <WORD>
(config-vmware)# configure-avs
(config-vmware-avs)# 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-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 : 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
```

ciphers

ciphers <WORD>

Description: HTTPS cipher suite

Syntax:

WORD	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 endpoints

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

Description: Clear endpoints

Syntax:

leaf	Leaf Number
node-id	Leaf Number (Max Size 4000). Number range from=0 to=9223372036854775807
tenant	Tenant Hosting the endpoints
tenant-name	Tenant Hosting the endpoints (Max Size 63)
bridge-domain	Bridge-Domain Hosting the endpoints
bd-name	Bridge-Domain Hosting the endpoints (Max Size 64)
vlan	The encapsulation 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 snapshot file

clear snapshot file <WORD>

Description: Remove snapshot file

Syntax:

WORD	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:

WORD	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:

<1-32>	Controller id. Number range from=1 to=32
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 troubleshoot epext session report

clear troubleshoot epext session <ession_name> report

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

Syntax:

session	session
ession_name	Session name

Command Mode: exec : Exec Mode

Command Path:

```
# clear troubleshoot epext session <ession_name> report
```

clear troubleshoot eptoep session report

clear troubleshoot eptoep session <session_name> report

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

Syntax:

session	session
session_name	Session name

Command Mode: exec : Exec Mode

Command Path:

```
# clear troubleshoot eptoep session <session_name> report
```

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:

timeZone	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>]

Description: Configure L4-L7 Cluster Device

Syntax:

WORD	device name (Max Size 64)
WORD	(Optional) vcenter name (Max Size 64)
WORD	(Optional) vm name (Max Size 128)

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> [service
<service>] [function <function>]
(config-cluster)# cluster-device <WORD> [vcenter <WORD>] [vm <WORD>]
```

cluster-device query-device-health

cluster-device <WORD> [vcenter <WORD>] [vm <WORD>] query-device-health

Description: Re-query for Device Health

Syntax:

WORD	device name (Max Size 64)
WORD	(Optional) vcenter name (Max Size 64)
WORD	(Optional) vm name (Max Size 128)

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> [service
<service>] [function <function>]
(config-cluster)# cluster-device <WORD> [vcenter <WORD>] [vm <WORD>] query-device-health
```

cluster-device query-device-statistics

cluster-device <WORD> [vcenter <WORD>] [vm <WORD>] query-device-statistics

Description: Re-query for Device Statistics

Syntax:

WORD	device name (Max Size 64)
WORD	(Optional) vcenter name (Max Size 64)
WORD	(Optional) vm name (Max Size 128)

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> [service
<service>] [function <function>]
(config-cluster)# cluster-device <WORD> [vcenter <WORD>] [vm <WORD>] query-device-statistics
```

cluster-device query-device-validation

cluster-device <WORD> [vcenter <WORD>] [vm <WORD>] query-device-validation

Description: Re-query for Device Validation

Syntax:

WORD	device name (Max Size 64)
WORD	(Optional) vcenter name (Max Size 64)
WORD	(Optional) vm name (Max Size 128)

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> [service
<service>] [function <function>]
(config-cluster)# cluster-device <WORD> [vcenter <WORD>] [vm <WORD>] query-device-validation
```

cluster-interface

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

Description: Configure L4-L7 Cluster Interface

Syntax:

WORD	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> [service
<service>] [function <function>]
(config-cluster)# cluster-interface <WORD> [vlan <NUMBER>]
```

comm-policy

comm-policy <WORD>

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

Syntax:

WORD	Provide a communication policy name

Command Mode: configure : Configuration Mode

Command Path:

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

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>
(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>
(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> intra_service service1 <WORD> connector1 <WORD> service2 <WORD> connector2 <WORD>

Description: Configure l4l7 connection between service nodes

Syntax:

WORD	Connection name (Max Size 64)
service1	Service node 1
WORD	service-node-1 name (Max Size 64)
connector1	Connector on service node 1 that connects to the connection
WORD	service-node-1 connector name (Max Size 64)
service2	Service node 2
WORD	service-node-2 name (Max Size 64)
connector2	Connector on service node 2 that connects to the connection
WORD	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> intra_service service1 <WORD> connector1 <WORD> service2
 <WORD> connector2 <WORD>
```

connection terminal

connection <WORD> terminal provider|consumer service <WORD> connector <WORD>

Description: Configure l4l7 connection to terminal

Syntax:

WORD	Connection name (Max Size 64)
provider	Provider terminal
consumer	Consumer terminal
service	Service node that connects to a terminal node
WORD	service node name (Max Size 64)
connector	Connector on the service node that connects to a terminal node
WORD	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> terminal provider|consumer service <WORD> connector <WORD>
```

connector

connector <WORD> [cluster-interface <WORD>]

Description: Configure Connector for a Service Node

Syntax:

WORD	Connector name (Max Size 64)
WORD	(Optional) Cluster Interface name (Max Size 16)

Command Mode: service : Configure L4-L7 Service

Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# l4l7 graph <WORD> [contract <contract-option>]
(config-graph)# service <WORD> [device-cluster-tenant <WORD>] [device-cluster <WORD>] [mode
 <Available Modes>]
(config-service)# connector <WORD> [cluster-interface <WORD>]
```

console

console [severity severity <severity-value>]

Description: Enable the logging to console(switches only)

Syntax:

severity <severity-value>	(Optional) The severity level for the logs

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>]
```

contract-id

contract-id <WORD>

Description: Service contract id of the customer

Syntax:

WORD	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

contract <WORD> [type <type>]

Description: Configure binary contracts between Application EPGs

Syntax:

WORD	Name of the contract to create (Max Size 64)
type	(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 <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 <contractName> [label <label>]

Description: Add a contract consumed by this In-band Epg, along with an optional list of subject labels

Syntax:

<contractName>	link to contract name
label	(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 consumer <contractName> [label <label>]
```

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:

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: 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:

WORD	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>
(config-leaf-vrf-route-map-match)# contract consumer <WORD> [imported]
```

contract deny

contract deny <WORD>

Description: Attach a taboo contract to this AEPg

Syntax:

WORD	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:

WORD	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 provider

contract provider <WORD> [qos-class <WORD>]

Description: Add the supplied contract to be provided by any AEPg on this VRF

Syntax:

WORD	Whitelist contract provided (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 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:

WORD	Whitelist contract to provide (Max Size 64)
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 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

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 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:

<contractName>	link to contract name
label	(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:

WORD	Whitelist contract to provide (Max Size 64)
WORD	(Optional) Per-Contract label (Max Size 64)
WORD	(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:

WORD	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>
(config-leaf-vrf-route-map-match)# contract provider <WORD>
```

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:

arg	

Command Mode: configure : Configuration Mode

Command Path:

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

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>
```

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:

WORD	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:

WORD	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:

WORD	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>
```