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fabric-external

fabric-external <NUMBER>

Description: Intrasite/Intersite Connectivity Profile

Syntax:

<ID>	Fabric ID. Number range from=0 to=9223372036854775807

Command Mode: configure : Configuration Mode

Command Path:

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

fabric-interface ethernet

fabric-interface ethernet

Description: Ethernet IEEE 802.3z

Syntax:

arg	interface range

Command Mode: leaf : Configure Leaf Node

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# fabric-interface ethernet
```

fabric-interface ethernet

Description: Ethernet IEEE 802.3z

Syntax:

arg	interface range

Command Mode: spine : Configure Spine Node

Command Path:

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# fabric-interface ethernet
```

fabric clear

fabric <nodes> clear <scope>

Description: clear switch information

Syntax:

<*nodes*>	node list
<*scope*>	switch command

Command Mode: exec : Exec Mode

Command Path:

```
# fabric <nodes> clear <scope>
```

Usage Notes:

When clearing virtual fibre channel (VFC) interface counters using the **fabric** *node* **clear counters interface vfc** *slot/port* command, allow up to eight seconds after sending the command for the counters to clear.

fabric show

fabric <nodes> show <scope>

Description: Show switch information

Syntax:

<*nodes*>	node list
<*scope*>	switch command

Command Mode: exec : Exec Mode

Command Path:

```
# fabric <nodes> show <scope>
```

fail-auth-epg

fail-auth-epg tenant <arg> application <arg> epg <arg>

Description: Set default EPg name if authentication fails

Syntax:

tenant	Tenant hosting the EPg
arg	
application	Application Name
arg	
epg	Deploy EPg if authentication fails
arg	

Command Mode: policy-map type port-authentication : Create node level port authentication policy

Command Path:

```
# configure [['terminal', 't']]
(config)# policy-map type port-authentication <WORD>
(config-pmap-port-authentication)# fail-auth-epg tenant <> application <> epg <>
```

fail-auth-vlan

fail-auth-vlan <vlan-id>

Description: Set default vlan encap if authentication fails

Syntax:

<*vlan-id*>	Configure Vlan ID

Command Mode: policy-map type port-authentication : Create node level port authentication policy

Command Path:

```
# configure [['terminal', 't']]
(config)# policy-map type port-authentication <WORD>
(config-pmap-port-authentication)# fail-auth-vlan <vlan-id>
```

fc-channel-group

fc-channel-group <WORD>

Description: Associate a Channel Group to this Interface

Syntax:

WORD	Port-Channel name (Max Size 64)

Command Mode: interface fc : FC Interface

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface fc <ifRange>
(config-leaf-fc-if)# fc-channel-group <WORD>
```

fc-channel-group <WORD>

Description: Associate a Channel Group to this Interface

Syntax:

WORD	Port-Channel name (Max Size 64)

Command Mode: interface fc : FC Interface

Command Path:

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface fc <ifRange>
(config-leaf-fc-if)# fc-channel-group <WORD>
```

fc-policy-group

fc-policy-group <WORD>

Description: Associate an FC Interface Policy Group to this Interface Group

Syntax:

WORD	FC Interface Policy Group Name (Max Size 64)

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

Command Path:

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

fc-policy-group <WORD>

Description: Convert interface to FC and Associate FC Policy Group

Syntax:

WORD	FC Interface Policy Group Name (Max Size 64)

Command Mode: interface fc : FC Interface

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface fc <ifRange>
(config-leaf-fc-if)# fc-policy-group <WORD>
```

fc-policy-group <WORD>

Description: Convert interface to FC and Associate FC Policy Group

Syntax:

WORD	FC Interface Policy Group Name (Max Size 64)

Command Mode: interface fc : FC Interface

Command Path:

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface fc <ifRange>
(config-leaf-fc-if)# fc-policy-group <WORD>
```

fc

fc

Description: Enable fc BD

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

Command Path:

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

fcoe

fcoe vsan <NUMBER> vlan <NUMBER>

Description: Configure fcoe parameters

Syntax:

vsan	Configure Vsan ID
<*vsan-id*>	Configure Vsan ID. Number range from=1 to=4093
vlan	Configure Vlan ID
<*vlan-id*>	Configure Vlan ID. Number range from=1 to=4094

Command Mode: vsan-domain : Configure vsan domain

Command Path:

```
# configure [['terminal', 't']]
(config)# vsan-domain <name>
(config-vsan)# fcoe vsan <NUMBER> vlan <NUMBER>
```

fcoe fcmap <WORD>

Description: Configure fcoe parameters

Syntax:

fcmap	FC Map
WORD	Configure FC Map, range is from 0E:FC:00 to 0E:FC:FF

Command Mode: template fc-fabric-policy : Configure FC Fabric Policy(Max Size 64)

Command Path:

```
# configure [['terminal', 't']]
(config)# template fc-fabric-policy <WORD>
(config-fc-fabric-policy)# fcoe fcmap <WORD>
```

fcoe vsan <NUMBER> vlan <NUMBER>

Description: Configure fcoe parameters

Syntax:

vsan	Configure Vsan ID
<*vsan-id*>	Configure Vsan ID. Number range from=1 to=4093
vlan	Configure Vlan ID

<vlan-id>	Configure Vlan ID. Number range from=1 to=4094

Command Mode: template vsan-attribute : Configure Vsan Attributes(Max Size 64)

Command Path:

```
# configure [['terminal', 't']]
(config)# template vsan-attribute <WORD>
(config-vsan-attr)# fcoe vsan <NUMBER> vlan <NUMBER>
```

fcoe fcmap

fcoe fcmap <WORD>

Description: Configure FC Map

Syntax:

WORD	Configure FC Map, range is from 0E:FC:00 to 0E:FC:FF

Command Mode: leaf : Configure Leaf Node

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# fcoe fcmap <WORD>
```

fcoe fcmap <WORD>

Description: Configure FC Map

Syntax:

WORD	Configure FC Map, range is from 0E:FC:00 to 0E:FC:FF

Command Mode: spine : Configure Spine Node

Command Path:

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# fcoe fcmap <WORD>
```

fcoe fka-adv-period

fcoe fka-adv-period <NUMBER>

Description: Configure FIP Keep Alive Interval

Syntax:

<*interval*>	FIP Keep Alive Timer. Number range from=4 to=60

Command Mode: template fc-leaf-policy : Configure FC Leaf Policy(Max Size 64)

Command Path:

```
# configure [['terminal', 't']]
(config)# template fc-leaf-policy <WORD>
(config-fc-leaf-policy)# fcoe fka-adv-period <NUMBER>
```

fcoe fka-adv-period <NUMBER>

Description: Configure FIP Keep Alive Interval

Syntax:

<*interval*>	FIP Keep Alive Timer. Number range from=4 to=60

Command Mode: leaf : Configure Leaf Node

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# fcoe fka-adv-period <NUMBER>
```

fcoe fka-adv-period <NUMBER>

Description: Configure FIP Keep Alive Interval

Syntax:

<*interval*>	FIP Keep Alive Timer. Number range from=4 to=60

Command Mode: spine : Configure Spine Node

Command Path:

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# fcoe fka-adv-period <NUMBER>
```

fcoe vsan vlan loadbalancing

fcoe vsan <NUMBER> vlan <NUMBER> loadbalancing src-dst-id|src-dst-ox-id

Description: Configure loadbalancing

Syntax:

vsan	Configure Vsan ID
<*vsan-id*>	Configure Vsan ID. Number range from=1 to=4093
vlan	Configure Vlan ID
<*vlan-id*>	Configure Vlan ID. Number range from=1 to=4094
src-dst-id	Load balaning based on src-dst-id
src-dst-ox-id	Load balaning based on the src-dst-ox-id

Command Mode: vsan-domain : Configure vsan domain

Command Path:

```
# configure [['terminal', 't']]
(config)# vsan-domain <name>
(config-vsan)# fcoe vsan <NUMBER> vlan <NUMBER> loadbalancing src-dst-id|src-dst-ox-id
```

fcoe vsan <NUMBER> vlan <NUMBER> loadbalancing src-dst-id|src-dst-ox-id

Description: Configure loadbalancing

Syntax:

vsan	Configure Vsan ID
<*vsan-id*>	Configure Vsan ID. Number range from=1 to=4093
vlan	Configure Vlan ID
<*vlan-id*>	Configure Vlan ID. Number range from=1 to=4094
src-dst-id	Load balaning based on src-dst-id
src-dst-ox-id	Load balaning based on the src-dst-ox-id

Command Mode: template vsan-attribute : Configure Vsan Attributes(Max Size 64)

Command Path:

```
# configure [['terminal', 't']]
(config)# template vsan-attribute <WORD>
(config-vsan-attr)# fcoe vsan <NUMBER> vlan <NUMBER> loadbalancing src-dst-id|src-dst-ox-id
```

fctimer e-d-tov

fctimer e-d-tov <NUMBER>

Description: Configure e_d_tov value

Syntax:

<*interval*>	FC Fabric error detect timeout. Number range from=1000 to=4000

Command Mode: template fc-fabric-policy : Configure FC Fabric Policy(Max Size 64)

Command Path:

```
# configure [['terminal', 't']]
(config)# template fc-fabric-policy <WORD>
(config-fc-fabric-policy)# fctimer e-d-tov <NUMBER>
```

fctimer e-d-tov <NUMBER>

Description: Configure e_d_tov value

Syntax:

<*interval*>	FC Fabric error detect timeout. Number range from=1000 to=4000

Command Mode: leaf : Configure Leaf Node

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# fctimer e-d-tov <NUMBER>
```

fctimer e-d-tov <NUMBER>

Description: Configure e_d_tov value

Syntax:

<*interval*>	FC Fabric error detect timeout. Number range from=1000 to=4000

Command Mode: spine : Configure Spine Node

Command Path:

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# fctimer e-d-tov <NUMBER>
```

fctimer r-a-tov

fctimer r-a-tov <NUMBER>

Description: Configure r_a_tov value

Syntax:

<*interval*>	FC Fabric resolution allocation timeout. Number range from=5000 to=10000

Command Mode: template fc-fabric-policy : Configure FC Fabric Policy(Max Size 64)

Command Path:

```
# configure [['terminal', 't']]
(config)# template fc-fabric-policy <WORD>
(config-fc-fabric-policy)# fctimer r-a-tov <NUMBER>
```

fctimer r-a-tov <NUMBER>

Description: Configure r_a_tov value

Syntax:

<*interval*>	FC Fabric resolution allocation timeout. Number range from=5000 to=10000

Command Mode: leaf : Configure Leaf Node

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# fctimer r-a-tov <NUMBER>
```

fctimer r-a-tov <NUMBER>

Description: Configure r_a_tov value

Syntax:

<*interval*>	FC Fabric resolution allocation timeout. Number range from=5000 to=10000

Command Mode: spine : Configure Spine Node

Command Path:

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# fctimer r-a-tov <NUMBER>
```

feature

feature analytics|netflow

Description: Select Netflow

Syntax:

analytics	Select Analytics
netflow	Select Netflow

Command Mode: node-control : Create a Node Control Policy

Command Path:

```
# configure [['terminal', 't']]
(config)# node-control policy <WORD>
(config-node)# feature analytics|netflow
```

fex-interface-group

fex-interface-group <WORD>

Description: Configure Fex Interface Group

Syntax:

WORD	Fex Interface Group Name (Max Size 64)

Command Mode: fex-profile : Configure Fex Profile

Command Path:

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

fex-profile

fex-profile <WORD>

Description: Configure Fex Profile

Syntax:

WORD	Fex Profile Name (Max Size 64)

Command Mode: configure : Configuration Mode

Command Path:

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

fex

fex associate <NUMBER> template <WORD>

Description: Configure Fex on the Interface

Syntax:

associate	Associate the port to a FEX
NUMBER	Fex Number. Number range from=101 to=199
template	Associate a template
WORD	Fex Template Name (Max Size 64)

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

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf-interface-profile <WORD>
(config-leaf-if-profile)# leaf-interface-group <WORD>
(config-leaf-if-group)# fex associate <NUMBER> template <WORD>
```

fex associate <arg>

Description: Configure Fex on the Interface

Syntax:

associate	Associate the port to a FEX
arg	Fex Number. Number range from=101 to=199

Command Mode: interface ethernet : Ethernet IEEE 802.3z

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface ethernet <ifRange>
(config-leaf-if)# fex associate <>
```

fex associate <arg>

Description: Configure Fex on the Interface

Syntax:

associate	Associate the port to a FEX
arg	Fex Number. Number range from=101 to=199

Command Mode: interface ethernet : Ethernet IEEE 802.3z

Command Path:

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface ethernet <ifRange>
(config-leaf-if)# fex associate <>
```

file

file <FILENAME>

Description: Snapshot file name

Syntax:

FILENAME	Snapshot file name

Command Mode: snapshot download : Configuration snapshot download setup mode

Command Path:

```
# configure [['terminal', 't']]
(config)# snapshot download <WORD>
(config-download)# file <FILENAME>
```

file <FILENAME>

Description: Snapshot file name

Syntax:

FILENAME	Snapshot file name

Command Mode: snapshot import : Configuration import setup mode

Command Path:

```
# configure [['terminal', 't']]
(config)# snapshot import <WORD>
(config-import)# file <FILENAME>
```

file <FILENAME>

Description: Snapshot file name

Syntax:

FILENAME	Snapshot file name

Command Mode: snapshot upload : Configuration snapshot upload setup mode

Command Path:

```
# configure [['terminal', 't']]
(config)# snapshot upload <WORD>
(config-upload)# file <FILENAME>
```

filter-group

filter-group <WORD>

Description: Associate a filter group to the session

Syntax:

WORD	Filter group name (Max Size 64)

Command Mode: monitor access session : Configue monitor session for access interfaces

Command Path:

```
# configure [['terminal', 't']]
(config)# monitor access session <session_name>
(config-monitor-access)# filter-group <WORD>
```

filter-group <WORD>

Description: Associate a filter group to the source

Syntax:

WORD	Filter group name (Max Size 64)

Command Mode: source interface ethernet : Configure monitor for ethernet access interfaces

Command Path:

```
# configure [['terminal', 't']]
(config)# monitor access session <session_name>
(config-monitor-access)# source interface ethernet <ethernet> leaf <leaf Id>
(config-monitor-access-source)# filter-group <WORD>
```

filter-group <WORD>

Description: Associate a filter group to the source

Syntax:

WORD	Filter group name (Max Size 64)

Command Mode: source interface port-channel : Configure monitor for port-channel interfaces

Command Path:

```
# configure [['terminal', 't']]
(config)# monitor access session <session_name>
(config-monitor-access)# source interface port-channel <port-channel list> leaf <leaf Id>
[fex <fex Id>]
(config-monitor-access-source)# filter-group <WORD>
```

filter-group <WORD>

Description: Associate a filter group to the source

Syntax:

WORD	Filter group name (Max Size 64)

Command Mode: source interface vpc : Configure monitor for VPC interfaces

Command Path:

```
# configure [['terminal', 't']]
(config)# monitor access session <session_name>
(config-monitor-access)# source interface vpc <vpc list> leaf <leaf Id1> <leaf Id2> [fex
<fex Ids>]
(config-monitor-access-source)# filter-group <WORD>
```

filter

filter <WORD>

Description: Set the LDAP filter to be used in a user search

Syntax:

<*WORD*>	filter used in user search (Max Size 63)

Command Mode: ldap-server host : LDAP server DNS name or IP address

Command Path:

```
# configure [['terminal', 't']]
(config)# ldap-server host <A.B.C.D|A:B::C:D|WORD>
(config-host)# filter <WORD>
```

filter [ipproto <WORD>] [srcaddr <srcAddr>] [dstaddr <dstAddr>] [srcportfrom <WORD>] [srcportto <WORD>] [dstportfrom <WORD>] [dstportto <NUMBER>]

Description: Configue filter entry

Syntax:

WORD	(Optional) IP protocol name or value
srcAddr	(Optional) Source IP prefix
dstAddr	(Optional) Destination IP prefix
WORD	(Optional) Starting L4 source port
WORD	(Optional) Ending L4 source port
WORD	(Optional) Starting L4 destination port
NUMBER	(Optional) Ending L4 destination port

Command Mode: monitor access filter-group : Configue filter groups

Command Path:

```
# configure [['terminal', 't']]
(config)# monitor access filter-group <WORD>
(config-monitor-access-filtergrp)# filter [ipproto <WORD>] [srcaddr <srcAddr>] [dstaddr
<dstAddr>] [srcportfrom <WORD>] [srcportto <WORD>] [dstportfrom <WORD>] [dstportto <NUMBER>]
```

filter tenant application

filter tenant <tenant_name> application <application_name> epg <epg_name>

Description: application

Syntax:

tenant	tenant
tenant_name	tenant name (Max Size 63)
application_name	application name (Max Size 64)
epg	epg
epg_name	epg name (Max Size 64)

Command Mode: source interface ethernet : Configure monitor for ethernet access interfaces

Command Path:

```
# configure [['terminal', 't']]
(config)# monitor access session <session_name>
(config-monitor-access)# source interface ethernet <ethernet> leaf <leaf Id>
(config-monitor-access-source)# filter tenant <tenant_name> application <application_name>
 epg <epg_name>
```

filter tenant <tenant_name> application <application_name> epg <epg_name>

Description: application

Syntax:

tenant	tenant
tenant_name	tenant name (Max Size 63)
application_name	application name (Max Size 64)
epg	epg
epg_name	epg name (Max Size 64)

Command Mode: source interface port-channel : Configure monitor for port-channel interfaces

Command Path:

```
# configure [['terminal', 't']]
(config)# monitor access session <session_name>
(config-monitor-access)# source interface port-channel <port-channel list> leaf <leaf Id>
[fex <fex Id>]
(config-monitor-access-source)# filter tenant <tenant_name> application <application_name>
 epg <epg_name>
```

filter tenant <tenant_name> application <application_name> epg <epg_name>

Description: application

Syntax:

tenant	tenant
tenant_name	tenant name (Max Size 63)
application_name	application name (Max Size 64)
epg	epg
epg_name	epg name (Max Size 64)

Command Mode: source interface vpc : Configure monitor for VPC interfaces

Command Path:

```
# configure [['terminal', 't']]
(config)# monitor access session <session_name>
(config-monitor-access)# source interface vpc <vpc list> leaf <leaf Id1> <leaf Id2> [fex
<fex Ids>]
(config-monitor-access-source)# filter tenant <tenant_name> application <application_name>
 epg <epg_name>
```

filter tenant bd

filter tenant <tenant_name> bd <bd_name>

Description: BD filter

Syntax:

tenant	tenant
tenant_name	tenant name
bd_name	BD name

Command Mode: source interface ethernet : Configure monitor for ethernet fabric interfaces

Command Path:

```
# configure [['terminal', 't']]
(config)# monitor fabric session <session_name>
(config-monitor-fabric)# source interface ethernet <ethernet> switch <switch Id>
(config-monitor-fabric-source)# filter tenant <tenant_name> bd <bd_name>
```

filter tenant l3out

filter tenant <tenant_name> l3out <L3Out name> vlan <Vlan of the interface>

Description: L3Out

Syntax:

tenant	tenant
tenant_name	tenant name (Max Size 63)
L3Out name	L3Out name (Max Size 64)
vlan	Vlan of the interface
Vlan of the interface	Vlan of the interface. Number range from=0 to=4094

Command Mode: source interface ethernet : Configure monitor for ethernet access interfaces

Command Path:

```
# configure [['terminal', 't']]
(config)# monitor access session <session_name>
(config-monitor-access)# source interface ethernet <ethernet> leaf <leaf Id>
(config-monitor-access-source)# filter tenant <tenant_name> l3out <L3Out name> vlan <Vlan
of the interface>
```

filter tenant <tenant_name> l3out <L3Out name> vlan <Vlan of the interface>

Description: L3Out

Syntax:

tenant	tenant
tenant_name	tenant name (Max Size 63)
L3Out name	L3Out name (Max Size 64)
vlan	Vlan of the interface
Vlan of the interface	Vlan of the interface. Number range from=0 to=4094

Command Mode: source interface port-channel : Configure monitor for port-channel interfaces

Command Path:

```
# configure [['terminal', 't']]
(config)# monitor access session <session_name>
(config-monitor-access)# source interface port-channel <port-channel list> leaf <leaf Id>
[fex <fex Id>]
(config-monitor-access-source)# filter tenant <tenant_name> l3out <L3Out name> vlan <Vlan
of the interface>
```

filter tenant <tenant_name> l3out <L3Out name> vlan <Vlan of the interface>

Description: L3Out

Syntax:

tenant	tenant
tenant_name	tenant name (Max Size 63)
L3Out name	L3Out name (Max Size 64)
vlan	Vlan of the interface
Vlan of the interface	Vlan of the interface. Number range from=0 to=4094

Command Mode: source interface vpc : Configure monitor for VPC interfaces

Command Path:

```
# configure [['terminal', 't']]
(config)# monitor access session <session_name>
(config-monitor-access)# source interface vpc <vpc list> leaf <leaf Id1> <leaf Id2> [fex
<fex Ids>]
(config-monitor-access-source)# filter tenant <tenant_name> l3out <L3Out name> vlan <Vlan
of the interface>
```

filter tenant vrf

filter tenant <tenant_name> vrf <vrf_name>

Description: VRF filter

Syntax:

tenant	tenant
tenant_name	tenant name
vrf_name	vrf name

Command Mode: source interface ethernet : Configure monitor for ethernet fabric interfaces

Command Path:

```
# configure [['terminal', 't']]
(config)# monitor fabric session <session_name>
(config-monitor-fabric)# source interface ethernet <ethernet> switch <switch Id>
(config-monitor-fabric-source)# filter tenant <tenant_name> vrf <vrf_name>
```

fips mode

fips mode enable

Description: Enable FIPS mode

Syntax:

enable	Enable FIPS mode

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# fips mode enable
```

firewall-logging

firewall-logging server-group <WORD> [severity severity <severity-info>] [polling-interval <polling-interval>] [action-type <action-type>]

Description: Configure firewall-logging on AVS/AVE

Syntax:

server-group	Specify server group name
WORD	Logging server-group name (Max Size 64)
severity <severity-info>	(Optional) Specify severity info
polling-interval	(Optional) Specify polling interval time in seconds. Number range from=60 to=86400
action-type	(Optional) Specify action type

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

Command Path:

```
# configure [['terminal', 't']]
(config)# vmware-domain <WORD> [delimiter <WORD>] [access-mode <access-mode>]
(config-vmware)# configure-avs
(config-vmware-avs)# firewall-logging server-group <WORD> [severity severity <severity-info>]
 [polling-interval <polling-interval>] [action-type <action-type>]
```

firewall-logging server-group <WORD> [severity severity <severity-info>] [polling-interval <polling-interval>] [action-type <action-type>]

Description: Configure firewall-logging on AVS/AVE

Syntax:

server-group	Specify server group name
WORD	Logging server-group name (Max Size 64)
severity <severity-info>	(Optional) Specify severity info
polling-interval	(Optional) Specify polling interval time in seconds. Number range from=60 to=86400
action-type	(Optional) Specify action type

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

Command Path:

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

```
(config-vmware)# configure-ave
(config-vmware-ave)# firewall-logging server-group <WORD> [severity severity <severity-info>]
 [polling-interval <polling-interval>] [action-type <action-type>]
```

firewall

firewall mode enabled|disabled|learning

Description: Configure firewall mode on AVS/AVE

Syntax:

mode	firewall mode
enabled	Enabled mode
disabled	Disabled mode
learning	Learning mode

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

Command Path:

```
# configure [['terminal', 't']]
(config)# vmware-domain <WORD> [delimiter <WORD>] [access-mode <access-mode>]
(config-vmware)# configure-avs
(config-vmware-avs)# firewall mode enabled|disabled|learning
```

firewall mode enabled|disabled|learning

Description: Configure firewall mode on AVS/AVE

Syntax:

mode	firewall mode
enabled	Enabled mode
disabled	Disabled mode
learning	Learning mode

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

Command Path:

```
# configure [['terminal', 't']]
(config)# vmware-domain <WORD> [delimiter <WORD>] [access-mode <access-mode>]
(config-vmware)# configure-ave
(config-vmware-ave)# firewall mode enabled|disabled|learning
```

firmware-version

firmware-version <version>

Description: Set target firmware version

Syntax:

<*version*>	firmware version

Command Mode: controller-group : Controller Upgrade Configuration Mode

Command Path:

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

firmware-version <version>

Description: Set target firmware version

Syntax:

<*version*>	firmware version

Command Mode: switch-group : Create switch firmware upgrade policy

Command Path:

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

firmware

firmware

Description: Firmware upgrade configuration Mode

Command Mode: configure : Configuration Mode

Command Path:

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

firmware repository add

firmware repository add <WORD>

Description: Add firmware image to repository

Syntax:

WORD	Firmware image filename(absolute path)

Command Mode: exec : Exec Mode

Command Path:

```
# firmware repository add <WORD>
```

firmware repository delete

firmware repository delete <WORD>

Description: Remove firmware image from repository

Syntax:

WORD	Firmware image name

Command Mode: exec : Exec Mode

Command Path:

```
# firmware repository delete <WORD>
```

firmware upgrade controller-group

firmware upgrade controller-group

Description: Trigger controller-group upgrade

Command Mode: exec : Exec Mode

Command Path:

```
# firmware upgrade controller-group
```

firmware upgrade switch-group

firmware upgrade switch-group <WORD>

Description: Trigger switch-group upgrade

Syntax:

WORD	switch-group name (Max Size 64)

Command Mode: exec : Exec Mode

Command Path:

```
# firmware upgrade switch-group <WORD>
```

first-file

first-file <FILENAME>

Description: First snapshot file name

Syntax:

FILENAME	First snapshot file name

Command Mode: snapshot rollback : Configuration rollback setup mode

Command Path:

```
# configure [['terminal', 't']]
(config)# snapshot rollback <WORD>
(config-rollback)# first-file <FILENAME>
```

first-hop-security

first-hop-security

Description: Configuration for first hop security

Command Mode: tenant : Tenant configuration mode

Command Path:

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

first-hop-security security-policy

first-hop-security security-policy <WORD>

Description: Associate the bridge domain with a first hop security policy

Syntax:

WORD	first hop security policy name to be associated (Max Size 64)

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

Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# bridge-domain <WORD>
(config-tenant-bd)# first-hop-security security-policy <WORD>
```

first-hop-security trust-control

first-hop-security trust-control <WORD>

Description: Bind the EPG to a trust control policy

Syntax:

WORD	trust control to associate (Max Size 64)

Command Mode: epg : AEPg configuration mode

Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# application <WORD>
(config-tenant-app)# epg <WORD> [type <WORD>]
(config-tenant-app-epg)# first-hop-security trust-control <WORD>
```

first-name

first-name <WORD>

Description: Set the first name of the locally-authenticated user.

Syntax:

WORD	first name (Max Size 32)

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

Command Path:

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

flash-config

flash-config <arg>

Description: Add SSD Flash config policy

Syntax:

arg	

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)# flash-config <>
```

flash-config <WORD>

Description: Configure SSD Flash Config policy

Syntax:

WORD	Provide a SSD Flash Config policy name

Command Mode: configure : Configuration Mode

Command Path:

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

flood-in-encapsulation

flood-in-encapsulation

Description: Flood in encapsulation for EPG

Command Mode: epg : AEPg configuration mode

Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# application <WORD>
(config-tenant-app)# epg <WORD> [type <WORD>]
(config-tenant-app-epg)# flood-in-encapsulation
```

flow-exporter

flow-exporter <WORD>

Description: Configure external analytics reachability information

Syntax:

WORD	Analytics config server name

Command Mode: analytics : Configure external analytics reachability information

Command Path:

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

flow direction

flow direction ingress|egress|both

Description: Configure Netflow Direction (Valid only for AVS domain)

Syntax:

ingress	Ingress Direction
egress	Egress Direction
both	Bidirectional

Command Mode: vmware-domain : Associate EPG to a VMWare Domain

Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# application <WORD>
(config-tenant-app)# epg <WORD> [type <WORD>]
(config-tenant-app-epg)# vmware-domain member <WORD> [encap <WORD>] [primary-encap <WORD>]
 [allow-micro-segmentation] [deploy <WORD>] [push <WORD>] [binding-type
staticBinding|dynamicBinding|ephemeral] [port-allocation fixed|elastic] [num-ports <WORD>]
 [delimiter <WORD>]
(config-tenant-app-epg-domain)# flow direction ingress|egress|both
```

flow exporter

flow exporter <WORD>

Description: Configure NetFlow Exporter Policy

Syntax:

WORD	VMM Exporter Policy Name

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

Command Path:

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

flow exporter <WORD>

Description: Configure NetFlow Exporter Policy

Syntax:

WORD	VMM Exporter Policy Name

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

Command Path:

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

flow exporter <WORD>

Description: Configure NetFlow Exporter Policy

Syntax:

WORD	VMM Exporter Policy Name

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

Command Path:

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

flow exporter <WORD> destination address <A.B.C.D or A:B::C:D> transport udp <dstPort>

Description: Configure Netflow Exporter

Syntax:

WORD	Exporter Name (Max Size 64)
destination	Configure destination address
address	Configure destination address
A.B.C.D or A:B::C:D	IP address in format i.i.i.i or IPv6 address in format xxxx:xxxx, xxxx::xx
transport	Configure Transport Port
udp	Configure Transport Port
dstPort	Configure Transport Port

Command Mode: tenant : Tenant configuration mode

Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# flow exporter <WORD> destination address <A.B.C.D or A:B::C:D> transport
udp <dstPort>
```

flow exporter <WORD> destination address <A.B.C.D or A:B::C:D> transport udp <dstPort>

Description: Configure Netflow Exporter

Syntax:

WORD	Exporter Name (Max Size 64)
destination	Configure destination address
address	Configure destination address
A.B.C.D or A:B::C:D	IP address in format i.i.i.i or IPv6 address in format xxxx:xxxx, xxxx::xx
transport	Configure Transport Port
udp	Configure Transport Port
dstPort	Configure Transport Port

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# flow exporter <WORD> destination address <A.B.C.D or A:B::C:D> transport udp
<dstPort>
```

flow monitor

flow monitor enable

Description: Configure Netflow Monitor

Syntax:

enable	Enable Netflow Monitor

Command Mode: vmware-domain : Associate EPG to a VMWare Domain

Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# application <WORD>
(config-tenant-app)# epg <WORD> [type <WORD>]
(config-tenant-app-epg)# vmware-domain member <WORD> [encap <WORD>] [primary-encap <WORD>]
 [allow-micro-segmentation] [deploy <WORD>] [push <WORD>] [binding-type
staticBinding|dynamicBinding|ephemeral] [port-allocation fixed|elastic] [num-ports <WORD>]
 [delimiter <WORD>]
(config-tenant-app-epg-domain)# flow monitor enable
```

flow monitor <WORD>

Description: Configure Netflow Monitor

Syntax:

WORD	Monitor Name (Max Size 64)

Command Mode: tenant : Tenant configuration mode

Command Path:

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

flow monitor <WORD>

Description: Configure Netflow Monitor

Syntax:

WORD	Monitor Name (Max Size 64)

Command Mode: configure : Configuration Mode

Command Path:

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

```
(config)# flow monitor <WORD>
```

flow node-policy

flow node-policy <WORD>

Description: Netflow Node Policy Configuration

Syntax:

WORD	Netflow Node Policy Name (Max Size 64)

Command Mode: template leaf-policy-group : Configure Leaf Policy Group

Command Path:

```
# configure [['terminal', 't']]
(config)# template leaf-policy-group <WORD>
(config-leaf-policy-group)# flow node-policy <WORD>
```

flow node-policy <WORD>

Description: Node-policy name

Syntax:

WORD	Netflow Node Policy Name (Max Size 64)

Command Mode: leaf : Configure Leaf Node

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# flow node-policy <WORD>
```

flow node-policy <WORD>

Description: Node-policy name

Syntax:

WORD	Netflow Node Policy Name (Max Size 64)

Command Mode: spine : Configure Spine Node

Command Path:

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# flow node-policy <WORD>
```

flow node-policy <WORD>

Description: Configure Netflow Node Policy Parameters

Syntax:

WORD	Netflow Node Policy Name (Max Size 64)

Command Mode: configure : Configuration Mode

Command Path:

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

flow record

flow record <WORD>

Description: Configure Netflow Record

Syntax:

WORD	Record Name (Max Size 64)

Command Mode: tenant : Tenant configuration mode

Command Path:

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

flow record <WORD>

Description: Configure Netflow Record

Syntax:

WORD	Exporter Name (Max Size 64)

Command Mode: configure : Configuration Mode

Command Path:

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

flow timeout collection

flow timeout collection <arg>

Description: Collection time interval

Syntax:

arg	Configure collection timeout value in seconds. Number range from=60 to=36000

Command Mode: flow node-policy : Configure Netflow Node Policy Parameters

Command Path:

```
# configure [['terminal', 't']]
(config)# flow node-policy <WORD>
(config-flow-node-pol)# flow timeout collection <>
```

flow timeout template

flow timeout template <arg>

Description: Template time interval

Syntax:

arg	Configure template timeout value in seconds. Number range from=60 to=64000

Command Mode: flow node-policy : Configure Netflow Node Policy Parameters

Command Path:

```
# configure [['terminal', 't']]
(config)# flow node-policy <WORD>
(config-flow-node-pol)# flow timeout template <>
```

flow vm-exporter

flow vm-exporter <WORD> destination address <A.B.C.D or A:B::C:D> transport udp <dstPort>

Description: Configure NetFlow Exporter for VM Networking

Syntax:

WORD	NetFlow Exporter Name (Max Size 64)
destination	Configure destination address
address	Configure destination address
A.B.C.D or A:B::C:D	IP address in format i.i.i.i or IPv6 address in format xxxx:xxxx, xxxx::xx
transport	Configure Transport Port
udp	Configure Transport Port
dstPort	Configure Transport Port

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# flow vm-exporter <WORD> destination address <A.B.C.D or A:B::C:D> transport udp
<dstPort>
```

force-pwd-change

force-pwd-change

Description: Force the user to change password in next login

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

Command Path:

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

forged-transmits

forged-transmits accept

Description: Enable/disable forged transmits on trunk

Syntax:

accept	enable

Command Mode: trunk-portgroup : Configure a trunk port group in the VMWare domain

Command Path:

```
# configure [['terminal', 't']]
(config)# vmware-domain <WORD> [delimiter <WORD>] [access-mode <access-mode>]
(config-vmware)# trunk-portgroup <>
(config-vmware-trunk)# forged-transmits accept
```

format

format xml|short-txt|aml

Description: Configure the format of the message

Syntax:

xml	Xml
short-txt	Short-txt
aml	Aml

Command Mode: destination : Configure destination Parameters

Command Path:

```
# configure [['terminal', 't']]
(config)# callhome common
(config-callhome)# destination-profile
(config-callhome-destnprof)# destination <WORD>
(config-callhome-destnprof-destn)# format xml|short-txt|aml
```

format xml|short-txt|aml

Description: Configure the format of the message

Syntax:

xml	Xml
short-txt	Short-txt
aml	Aml

Command Mode: destination : Configure destination Parameters

Command Path:

```
# configure [['terminal', 't']]
(config)# smartcallhome common
(config-smartcallhome)# destination-profile
(config-callhome-destnprof)# destination <WORD>
(config-callhome-destnprof-destn)# format xml|short-txt|aml
```

format xml|json

Description: Snapshot format: xml or json

Syntax:

xml	XML format

json	JSON format

Command Mode: snapshot export : Configuration export setup mode

Command Path:

```
# configure [['terminal', 't']]
(config)# snapshot export <WORD>
(config-export)# format xml|json
```

forward-error-correction

forward-error-correction <WORD>

Description: Forward Error Correction

Syntax:

WORD	Forward Error Correction Mode

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

Command Path:

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

forward-error-correction <WORD>

Description: Forward Error Correction

Syntax:

WORD	Forward Error Correction Mode

Command Mode: interface ethernet : Ethernet IEEE 802.3z

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface ethernet <ifRange>
(config-leaf-if)# forward-error-correction <WORD>
```

forward-error-correction <WORD>

Description: Forward Error Correction

Syntax:

WORD	Forward Error Correction Mode

Command Mode: interface ethernet : Ethernet IEEE 802.3z

Command Path:

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface ethernet <ifRange>
(config-leaf-if)# forward-error-correction <WORD>
```

function-profile

function-profile <WORD>

Description: Configure function profile container

Syntax:

WORD	Provide a container name for function profiles

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

Command Path:

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

fwdnonecn

fwdnonecn enabled|disabled

Description: Set forwarding for Non ECN (Explicit congestion notification for WRED

Syntax:

enabled	Enable non ECN forwarding
disabled	Disable non ECN forwarding

Command Mode: algo : Configure the global QOS policies

Command Path:

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