L Commands

l1l2redir-dest

l1l2redir-dest <WORD>

Description: Configure l1l2redirect destination

Syntax:

WORD	dest name (Max Size 512)

Command Mode: svcredir-pol : Configure L4L7 service redirection policy

Command Path:

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

l2-unknown-unicast

l2-unknown-unicast <WORD>

Description: Change Unknown Unicast flood behavior

Syntax:

WORD	Unicast Unknown threatment

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

Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# bridge-domain <WORD>
(config-tenant-bd)# l2-unknown-unicast <WORD>
```

l2protocol-tunnel

l2protocol-tunnel stp|lldp|cdp|lacp|vtp

Description: set the type of qinq tunneling protocol

Syntax:

stp	Set protocol which needs to be tunnled to STP
lldp	Set protocol which needs to be tunnled to LLDP
cdp	Set protocol which needs to be tunnled to CDP
lacp	Set protocol which needs to be tunnled to LACP
vtp	Set protocol which needs to be tunnled to VTP

Command Mode: dot1q-tunnel : Tunnel configuration mode

Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# dot1q-tunnel <WORD>
(config-tenant-tunnel)#l2protocol-tunnel stp|lldp|cdp|lacp|vtp
```

l3-unknown-multicast

l3-unknown-multicast <WORD>

Description: Change IPV4 L3 Unknown Multicast flood behavior

Syntax:

WORD	IPV4 Multicast unknown Frame handling

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

Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# bridge-domain <WORD>
(config-tenant-bd)# l3-unknown-multicast <WORD>
```

l3out

l3out <WORD>

Description: Configuration for L3Out

Syntax:

WORD	L3Out name (Max Size 64)

Command Mode: tenant : Tenant configuration mode

Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# l3out <WORD>
```

l3out <l3out> <default>

Description: Add l3out to the Resource Pool

Syntax:

l3out	l3out
default	default

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

Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# l4l7 resource-pool <WORD>
(config-resource-pool)# l3out <l3out> <default>
```

l4l7-cluster

l4l7-cluster <ldevVip>

Description: Add ldev to the Resource Pool

Syntax:

ldevVip	ldevVip

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

Command Path:

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

l4l7-peer

l4l7-peer tenant <WORD> out <WORD> epg <WORD> redistribute WORD

Description: Configure l3external epg association for a L4-L7 graph connector.

Syntax:

tenant	tenant under which the l3external epg resides
WORD	WORD
out	l3external outside name
WORD	WORD
epg	l3external-epg name
WORD	WORD
redistribute	Protocol Redistribute Settings
WORD	Protocol Redistribute Settings

Command Mode: connector : Configure Connector for a Service Node

Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# l4l7 graph <WORD> [contract <contract-option>]
(config-graph)# service <WORD> [device-cluster-tenant <WORD>] [device-cluster <WORD>] [mode
 <Available Modes>] [svcredir <Service Redirection>] [service-type <Service Type>]
(config-service)# connector <WORD> [cluster-interface <WORD>]
(config-connector)# l4l7-peer tenant <WORD> out <WORD> epg <WORD> redistribute WORD
```

l4l7

l4l7 graph <WORD>

Description: Associate a l4l7 graph with this subject

Syntax:

graph	l4l7 graph to associate with
WORD	Service Graph name (Max Size 64)

Command Mode: subject : Configuration a subject on the contract

Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# contract <WORD> [type <type>]
(config-tenant-contract)# subject <WORD>
(config-tenant-contract-subj)# l4l7 graph <WORD>
```

l4l7 cluster import-from

l4l7 cluster import-from <WORD> device-cluster <WORD>

Description: Import a L4-L7 Service Device Cluster

Syntax:

WORD	Tenant name (Max Size 63)
device-cluster	Device Cluster name
WORD	Device cluster name (Max Size 64)

Command Mode: tenant : Tenant configuration mode

Command Path:

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

l4l7 cluster name

l4l7 cluster name <WORD> type <type> vlan-domain <domain-name> [switching-mode <switching-mode>] [service <service>] [function <function>] [context <context>] [trunking <enable|disable>] [vm-instantiation-policy <vm-instantiation-policy>]

Description: Add a L4-L7 Service Device Cluster

Syntax:

WORD	Device cluster name (Max Size 64)
type	Type of l4l7 Device Cluster
type	Type of l4l7 Device Cluster
vlan-domain	Physical or Virtual vlan domain to use for allocating encaps
<domain-name>	Physical Or Virtual vlan domain to use for allocating encaps
switching-mode	(Optional) Switching mode for AVE
service	(Optional) Indicates the type of service the device cluster provides
function	(Optional) Indicates the type of function the device cluster provides
context	(Optional) Type of l4l7 Device Context
<enable|disable>	(Optional) Enable or disable trunking for the device cluster
vm-instantiation-policy	(Optional) Select VM instantiation policy for dynamic logical device

Command Mode: tenant : Tenant configuration mode

Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# l4l7 cluster name <WORD> type <type> vlan-domain <domain-name>
[switching-mode <switching-mode>] [service <service>] [function <function>] [context
<context>] [trunking <enable|disable>] [vm-instantiation-policy <vm-instantiation-policy>]
```

l4l7 graph

l4l7 graph <WORD> [contract <contract-option>]

Description: Configure L4-L7 Service Graph

Syntax:

WORD	Service Graph name (Max Size 64)
contract-option	(Optional) Name of Contract

Command Mode: tenant : Tenant configuration mode

Command Path:

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

l4l7 resource-pool

l4l7 resource-pool <WORD>

Description: Configure L4-L7 Service Resource Pool

Syntax:

WORD	SRP name (Max Size 63)

Command Mode: tenant : Tenant configuration mode

Command Path:

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

label

label <WORD>

Description: Create Provider Label

Syntax:

WORD	Provider Label Name

Command Mode: neighbor : Configure a BGP neighbor

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# router bgp <fabric-ASN>
(config-leaf-bgp)# vrf member tenant <WORD> vrf <WORD>
(config-leaf-bgp-vrf)# neighbor A.B.C.D|A.B.C.D/LEN|A:B::C:D|A:B::C:D/LEN [evpn] [l3out
<WORD>]
(config-leaf-bgp-vrf-neighbor)# label <WORD>
```

label <WORD>

Description: Create Provider Label

Syntax:

WORD	Provider Label Name

Command Mode: neighbor : Configure a BGP neighbor

Command Path:

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# router bgp <fabric-ASN>
(config-leaf-bgp)# vrf member tenant <WORD> vrf <WORD>
(config-leaf-bgp-vrf)# neighbor A.B.C.D|A.B.C.D/LEN|A:B::C:D|A:B::C:D/LEN [evpn] [l3out
<WORD>]
(config-leaf-bgp-vrf-neighbor)# label <WORD>
```

label match

label match provider|consumer any|one|all|none

Description: Specify the match type for the provider or consumer label

Syntax:

provider	Matching type for provider
consumer	Matching type for consumer
any	Match if ANY label is found in the contract relation
one	Match if exactly ONE label is found in the contract relation
all	Match if ALL labels are found in the contract relation
none	Match if NO labels are found in the contract relation

Command Mode: subject : Configuration a subject on the contract

Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# contract <WORD> [type <type>]
(config-tenant-contract)# subject <WORD>
(config-tenant-contract-subj)# label match provider|consumer any|one|all|none
```

label name

label name <WORD> provider|consumer

Description: Add a provider or consumer label to the subject

Syntax:

WORD	Name of the label to add (Max Size 64)
provider	Matching type for provider
consumer	Matching type for consumer

Command Mode: subject : Configuration a subject on the contract

Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# contract <WORD> [type <type>]
(config-tenant-contract)# subject <WORD>
(config-tenant-contract-subj)# label name <WORD> provider|consumer
```

lacp fast-select-hot-standby

lacp fast-select-hot-standby

Description: Enable LACP fast select for hot standby ports

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

Command Path:

```
# configure [['terminal', 't']]
(config)# template port-channel <WORD>
(config-po-ch-if)# lacp fast-select-hot-standby
```

lacp fast-select-hot-standby

Description: Enable LACP fast select for hot standby ports

Command Mode: interface port-channel : Port Channel interface

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface port-channel <WORD> [fex <fex>]
(config-leaf-if)# lacp fast-select-hot-standby
```

lacp fast-select-hot-standby

Description: Enable LACP fast select for hot standby ports

Command Mode: interface port-channel : Port Channel interface

Command Path:

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface port-channel <WORD> [fex <fex>]
(config-leaf-if)# lacp fast-select-hot-standby
```

lacp fast-select-hot-standby

Description: Enable LACP fast select for hot standby ports

Command Mode: interface : Provide VPC Name

Command Path:

```
# configure [['terminal', 't']]
(config)# vpc context leaf <101-4000> <101-4000> [fex <fex>]
(config-vpc)# interface vpc <WORD> [fex <fex>]
(config-vpc-if)# lacp fast-select-hot-standby
```

lacp graceful-convergence

lacp graceful-convergence

Description: Enable LACP graceful convergence

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

Command Path:

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

lacp graceful-convergence

Description: Enable LACP graceful convergence

Command Mode: interface port-channel : Port Channel interface

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface port-channel <WORD> [fex <fex>]
(config-leaf-if)# lacp graceful-convergence
```

lacp graceful-convergence

Description: Enable LACP graceful convergence

Command Mode: interface port-channel : Port Channel interface

Command Path:

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface port-channel <WORD> [fex <fex>]
(config-leaf-if)# lacp graceful-convergence
```

lacp graceful-convergence

Description: Enable LACP graceful convergence

Command Mode: interface : Provide VPC Name

Command Path:

```
# configure [['terminal', 't']]
(config)# vpc context leaf <101-4000> <101-4000> [fex <fex>]
(config-vpc)# interface vpc <WORD> [fex <fex>]
(config-vpc-if)# lacp graceful-convergence
```

lacp load-defer

lacp load-defer

Description: Enable LACP load defer member ports

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

Command Path:

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

lacp load-defer

Description: Enable LACP load defer member ports

Command Mode: interface port-channel : Port Channel interface

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface port-channel <WORD> [fex <fex>]
(config-leaf-if)# lacp load-defer
```

lacp load-defer

Description: Enable LACP load defer member ports

Command Mode: interface port-channel : Port Channel interface

Command Path:

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface port-channel <WORD> [fex <fex>]
(config-leaf-if)# lacp load-defer
```

lacp load-defer

Description: Enable LACP load defer member ports

Command Mode: interface : Provide VPC Name

Command Path:

```
# configure [['terminal', 't']]
(config)# vpc context leaf <101-4000> <101-4000> [fex <fex>]
(config-vpc)# interface vpc <WORD> [fex <fex>]
(config-vpc-if)# lacp load-defer
```

lacp max-links

lacp max-links <NUMBER>

Description: Configure maximum number of links

Syntax:

<*number*>	Range 1 to 16. Number range from=1 to=16

Command Mode: template fc-port-channel : Configure FC Port-Channel Parameters

Command Path:

```
# configure [['terminal', 't']]
(config)# template fc-port-channel <WORD>
(config-fc-po-ch-if)# lacp max-links <NUMBER>
```

lacp max-links <NUMBER>

Description: Configure maximum number of links

Syntax:

<*number*>	Range 1 to 16. Number range from=1 to=16

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

Command Path:

```
# configure [['terminal', 't']]
(config)# template port-channel <WORD>
(config-po-ch-if)# lacp max-links <NUMBER>
```

lacp max-links <NUMBER>

Description: Configure maximum number of links

Syntax:

<*number*>	Range 1 to 16. Number range from=1 to=16

Command Mode: interface port-channel : Port Channel interface

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface port-channel <WORD> [fex <fex>]
(config-leaf-if)# lacp max-links <NUMBER>
```

lacp max-links <NUMBER>

Description: Configure maximum number of links

Syntax:

<*number*>	Range 1 to 16. Number range from=1 to=16

Command Mode: interface fc-port-channel : FC Port Channel

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface fc-port-channel <WORD>
(config-leaf-fc-pc)# lacp max-links <NUMBER>
```

lacp max-links <NUMBER>

Description: Configure maximum number of links

Syntax:

<*number*>	Range 1 to 16. Number range from=1 to=16

Command Mode: interface port-channel : Port Channel interface

Command Path:

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface port-channel <WORD> [fex <fex>]
(config-leaf-if)# lacp max-links <NUMBER>
```

lacp max-links <NUMBER>

Description: Configure maximum number of links

Syntax:

<*number*>	Range 1 to 16. Number range from=1 to=16

Command Mode: interface fc-port-channel : FC Port Channel

Command Path:

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface fc-port-channel <WORD>
(config-leaf-fc-pc)# lacp max-links <NUMBER>
```

lacp max-links <NUMBER>

Description: Configure maximum number of links

Syntax:

<*number*>	Range 1 to 16. Number range from=1 to=16

Command Mode: interface : Provide VPC Name

Command Path:

```
# configure [['terminal', 't']]
(config)# vpc context leaf <101-4000> <101-4000> [fex <fex>]
(config-vpc)# interface vpc <WORD> [fex <fex>]
(config-vpc-if)# lacp max-links <NUMBER>
```

lacp min-links

lacp min-links <NUMBER>

Description: Configure minimum number of links

Syntax:

<*number*>	Range 1 to 16. Number range from=1 to=16

Command Mode: template fc-port-channel : Configure FC Port-Channel Parameters

Command Path:

```
# configure [['terminal', 't']]
(config)# template fc-port-channel <WORD>
(config-fc-po-ch-if)# lacp min-links <NUMBER>
```

lacp min-links <NUMBER>

Description: Configure minimum number of links

Syntax:

<*number*>	Range 1 to 16. Number range from=1 to=16

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

Command Path:

```
# configure [['terminal', 't']]
(config)# template port-channel <WORD>
(config-po-ch-if)# lacp min-links <NUMBER>
```

lacp min-links <NUMBER>

Description: Configure minimum number of links

Syntax:

<*number*>	Range 1 to 16. Number range from=1 to=16

Command Mode: interface port-channel : Port Channel interface

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface port-channel <WORD> [fex <fex>]
(config-leaf-if)# lacp min-links <NUMBER>
```

lacp min-links <NUMBER>

Description: Configure minimum number of links

Syntax:

<*number*>	Range 1 to 16. Number range from=1 to=16

Command Mode: interface fc-port-channel : FC Port Channel

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface fc-port-channel <WORD>
(config-leaf-fc-pc)# lacp min-links <NUMBER>
```

lacp min-links <NUMBER>

Description: Configure minimum number of links

Syntax:

<*number*>	Range 1 to 16. Number range from=1 to=16

Command Mode: interface port-channel : Port Channel interface

Command Path:

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface port-channel <WORD> [fex <fex>]
(config-leaf-if)# lacp min-links <NUMBER>
```

lacp min-links <NUMBER>

Description: Configure minimum number of links

Syntax:

<*number*>	Range 1 to 16. Number range from=1 to=16

Command Mode: interface fc-port-channel : FC Port Channel

Command Path:

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface fc-port-channel <WORD>
(config-leaf-fc-pc)# lacp min-links <NUMBER>
```

lacp min-links <NUMBER>

Description: Configure minimum number of links

Syntax:

<*number*>	Range 1 to 16. Number range from=1 to=16

Command Mode: interface : Provide VPC Name

Command Path:

```
# configure [['terminal', 't']]
(config)# vpc context leaf <101-4000> <101-4000> [fex <fex>]
(config-vpc)# interface vpc <WORD> [fex <fex>]
(config-vpc-if)# lacp min-links <NUMBER>
```

lacp port-priority

lacp port-priority <arg>

Description: Set Lacp priority

Syntax:

arg	Priority Value. Number range from=1 to=65535

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

Command Path:

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

lacp port-priority <arg>

Description: Set Lacp priority.

Syntax:

arg	Priority Value. Number range from=1 to=65535

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

Command Path:

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

lacp port-priority <NUMBER>

Description: Set Lacp priority.

Syntax:

<1-65535>	Priority Value. Number range from=1 to=65535

Command Mode: interface ethernet : Ethernet IEEE 802.3z

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface ethernet <ifRange>
(config-leaf-if)# lacp port-priority <NUMBER>
```

lacp port-priority <NUMBER>

Description: Set Lacp priority.

Syntax:

<1-65535>	Priority Value. Number range from=1 to=65535

Command Mode: interface ethernet : Ethernet IEEE 802.3z

Command Path:

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface ethernet <ifRange>
(config-leaf-if)# lacp port-priority <NUMBER>
```

lacp port-priority interface

lacp port-priority <arg> interface ethernet

Description: Set Port Priority on specific Ports

Syntax:

arg	Priority Value. Number range from=1 to=65535
ethernet	Configure Physical Interface
arg	Provide range of Interfaces

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

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf-interface-profile <WORD>
(config-leaf-if-profile)# leaf-interface-group <WORD>
(config-leaf-if-group)# lacp port-priority <> interface ethernet
```

lacp port-priority <arg> interface ethernet

Description: Set Port Priority on specific ports

Syntax:

arg	Priority Value. Number range from=1 to=65535
ethernet	Configure Physical Interface
arg	Provide range of Interfaces

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

Command Path:

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

lacp rate

lacp rate fast|normal

Description: Set Lacp rate

Syntax:

fast	Set rate to fast
normal	Set rate to normal

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

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf-interface-profile <WORD>
(config-leaf-if-profile)# leaf-interface-group <WORD>
(config-leaf-if-group)# lacp rate fast|normal
```

lacp rate fast|normal

Description: Set Lacp rate

Syntax:

fast	Set rate to fast
normal	Set rate to normal

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

Command Path:

```
# configure [['terminal', 't']]
(config)# fex-profile <WORD>
(config-fex-profile)# fex-interface-group <WORD>
(config-fex-if-group)# lacp rate fast|normal
```

lacp rate fast|normal

Description: Set Lacp rate

Syntax:

fast	Set rate to fast
normal	Set rate to normal

Command Mode: interface ethernet : Ethernet IEEE 802.3z

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface ethernet <ifRange>
(config-leaf-if)# lacp rate fast|normal
```

lacp rate fast|normal

Description: Set Lacp rate

Syntax:

fast	Set rate to fast
normal	Set rate to normal

Command Mode: interface ethernet : Ethernet IEEE 802.3z

Command Path:

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface ethernet <ifRange>
(config-leaf-if)# lacp rate fast|normal
```

lacp rate fast normal interface

lacp rate fast|normal interface ethernet

Description: Set Port Priority on specific Ports

Syntax:

fast	Set rate to fast
normal	Set rate to normal
ethernet	Configure Physical Interface
arg	Provide range of Interfaces

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

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf-interface-profile <WORD>
(config-leaf-if-profile)# leaf-interface-group <WORD>
(config-leaf-if-group)# lacp rate fast|normal interface ethernet
```

lacp rate fast|normal interface ethernet

Description: Set Port Priority on specific Ports

Syntax:

fast	Set rate to fast
normal	Set rate to normal
ethernet	Configure Physical Interface
arg	Provide range of Interfaces

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

Command Path:

```
# configure [['terminal', 't']]
(config)# fex-profile <WORD>
(config-fex-profile)# fex-interface-group <WORD>
(config-fex-if-group)# lacp rate fast|normal interface ethernet
```

lacp suspend-individual

lacp suspend-individual

Description: Enable LACP individual Port suspension

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

Command Path:

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

lacp suspend-individual

Description: Enable LACP individual Port suspension

Command Mode: interface port-channel : Port Channel interface

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface port-channel <WORD> [fex <fex>]
(config-leaf-if)# lacp suspend-individual
```

lacp suspend-individual

Description: Enable LACP individual Port suspension

Command Mode: interface port-channel : Port Channel interface

Command Path:

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface port-channel <WORD> [fex <fex>]
(config-leaf-if)# lacp suspend-individual
```

lacp suspend-individual

Description: Enable LACP individual Port suspension

Command Mode: interface : Provide VPC Name

Command Path:

```
# configure [['terminal', 't']]
(config)# vpc context leaf <101-4000> <101-4000> [fex <fex>]
(config-vpc)# interface vpc <WORD> [fex <fex>]
(config-vpc-if)# lacp suspend-individual
```

lacp symmetric-hash

lacp symmetric-hash

Description: Configure symmetric hashing policy

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

Command Path:

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

lacp symmetric-hash

Description: Configure symmetric hashing policy

Command Mode: interface port-channel : Port Channel interface

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface port-channel <WORD> [fex <fex>]
(config-leaf-if)# lacp symmetric-hash
```

lacp symmetric-hash

Description: Configure symmetric hashing policy

Command Mode: interface port-channel : Port Channel interface

Command Path:

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface port-channel <WORD> [fex <fex>]
(config-leaf-if)# lacp symmetric-hash
```

lag-policy-name

lag-policy-name <lag-policy-name>

Description: Configure enhanced lag policy under vmm domain

Syntax:

lag-policy-name	Select Enhanced LagPolicy

Command Mode: vmm-domain : Configure vmm domain

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# virtual-interface-profile vlan <1-4094> tenant <WORD> vrf <WORD> [l3out
<l3out>]
(virtual-interface-profile)# vmm-domain <vmm-domain> floating-addr <A.B.C.D/LEN>
(vmm-domain)# lag-policy-name <lag-policy-name>
```

lag-policy-name <lag-policy-name>

Description: Configure enhanced lag policy under vmm domain

Syntax:

lag-policy-name	Select Enhanced LagPolicy

Command Mode: vmm-domain : Configure vmm domain

Command Path:

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# virtual-interface-profile vlan <1-4094> tenant <WORD> vrf <WORD> [l3out
<l3out>]
(virtual-interface-profile)# vmm-domain <vmm-domain> floating-addr <A.B.C.D/LEN>
(vmm-domain)# lag-policy-name <lag-policy-name>
```

lag-policy

lag-policy <lag-policy-name>

Description: Associate Enhanced Lag Policy to Trunk PortGroup

Syntax:

<*lag-policy-name*>	Enhanced Lag Policy Name

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>]
[number-of-uplinks <number-of-uplinks>]
(config-vmware)# trunk-portgroup <>
(config-vmware-trunk)# lag-policy <lag-policy-name>
```

lag-policy <lag-policy-name>

Description: Associate Enhanced Lag Policy to VMM Domain

Syntax:

<*lag-policy-name*>	Enhanced Lag Policy Name

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

Command Path:

```
# configure [['terminal', 't']]
(config)# vmware-domain <WORD> [delimiter <WORD>] [access-mode <access-mode>]
[number-of-uplinks <number-of-uplinks>]
(config-vmware)# lag-policy <lag-policy-name>
```

lag-policy <lag-policy-name>

Description: Associate Enhanced Lag Policy to EPG in native mode

Syntax:

<*lag-policy-name*>	Enhanced Lag Policy Name

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

Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# application <WORD>
(config-tenant-app)# epg <WORD> [type <WORD>]
(config-tenant-app-epg)# vmware-domain member <WORD> [encap <WORD>] [primary-encap <WORD>]
```

```
 [allow-micro-segmentation] [deploy <WORD>] [push <WORD>] [binding-type
staticBinding|dynamicBinding|ephemeral] [port-allocation fixed|elastic] [num-ports <WORD>]
 [untagged-access-pg] [delimiter <WORD>]
(config-tenant-app-epg-domain)# lag-policy <lag-policy-name>
```

last-name

last-name <WORD>

Description: Set The last name of the locally-authenticated user.

Syntax:

WORD	last name (Max Size 32)

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

Command Path:

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

lastlogin

lastlogin

Description: Show user last login time

Command Mode: exec : Exec Mode

Command Path:

```
# lastlogin
```

latency

latency mode <mode>

Description: Configure latency

Syntax:

mode	Configure Vlan Domain Member
mode	mode

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# latency mode <mode>
```

layer2-switched flow

layer2-switched flow monitor <WORD>

Description: Configure Netflow on a Policy Group

Syntax:

monitor	Configure Netflow on a Policy Group
WORD	Netflow Monitor Policy Name (Max Size 64)

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

Command Path:

```
# configure [['terminal', 't']]
(config)# template policy-group <WORD>
(config-pol-grp-if)# layer2-switched flow monitor <WORD>
```

layer2-switched flow monitor <WORD>

Description: Configure Netflow on the Interface

Syntax:

monitor	Configure Netflow on the Interface
WORD	Netflow Monitor Policy Name (Max Size 64)

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

Command Path:

```
# configure [['terminal', 't']]
(config)# template port-channel <WORD>
(config-po-ch-if)# layer2-switched flow monitor <WORD>
```

layer2-switched flow monitor <WORD>

Description: Configure Netflow on the Interface

Syntax:

monitor	Configure Netflow on the Interface
WORD	Netflow Monitor Policy Name (Max Size 64)

Command Mode: interface : Configuration for interface bridge-domain

Command Path:

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

```
(config)# tenant <WORD>
(config-tenant)# interface bridge-domain <WORD>
(config-tenant-interface)# layer2-switched flow monitor <WORD>
```

layer2-switched flow monitor <WORD>

Description: Configure Netflow on the Interface

Syntax:

monitor	Configure Netflow on the Interface
WORD	Netflow Monitor Policy Name (Max Size 64)

Command Mode: interface vlan : Vlan interface

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface vlan <1-4094>
(config-leaf-if)# layer2-switched flow monitor <WORD>
```

layer2-switched flow monitor <arg>

Description: Configure Netflow on the Interface

Syntax:

monitor	Configure Netflow on the Interface
arg	Netflow Monitor Policy Name (Max Size 64)

Command Mode: interface ethernet : Ethernet IEEE 802.3z

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface ethernet <ifRange>
(config-leaf-if)# layer2-switched flow monitor <>
```

layer2-switched flow monitor <WORD>

Description: Configure Netflow on the Interface

Syntax:

monitor	Configure Netflow on the Interface
WORD	Netflow Monitor Policy Name (Max Size 64)

Command Mode: interface port-channel : Port Channel interface

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface port-channel <WORD> [fex <fex>]
(config-leaf-if)# layer2-switched flow monitor <WORD>
```

layer2-switched flow monitor <WORD>

Description: Configure Netflow on the Interface

Syntax:

monitor	Configure Netflow on the Interface
WORD	Netflow Monitor Policy Name (Max Size 64)

Command Mode: interface vlan : Vlan interface

Command Path:

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface vlan <1-4094>
(config-leaf-if)# layer2-switched flow monitor <WORD>
```

layer2-switched flow monitor <arg>

Description: Configure Netflow on the Interface

Syntax:

monitor	Configure Netflow on the Interface
arg	Netflow Monitor Policy Name (Max Size 64)

Command Mode: interface ethernet : Ethernet IEEE 802.3z

Command Path:

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface ethernet <ifRange>
(config-leaf-if)# layer2-switched flow monitor <>
```

layer2-switched flow monitor <WORD>

Description: Configure Netflow on the Interface

Syntax:

monitor	Configure Netflow on the Interface
WORD	Netflow Monitor Policy Name (Max Size 64)

Command Mode: interface port-channel : Port Channel interface

Command Path:

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface port-channel <WORD> [fex <fex>]
(config-leaf-if)# layer2-switched flow monitor <WORD>
```

layer2-switched flow monitor <WORD>

Description: Configure Netflow on the VPC

Syntax:

monitor	Configure Netflow on the VPC
WORD	Netflow Monitor Policy Name (Max Size 64)

Command Mode: interface : Provide VPC Name

Command Path:

```
# configure [['terminal', 't']]
(config)# vpc context leaf <101-4000> <101-4000> [fex <fex>]
(config-vpc)# interface vpc <WORD> [fex <fex>]
(config-vpc-if)# layer2-switched flow monitor <WORD>
```

lbmode

lbmode <Loadbalancing-Mode>

Description: Set Loadbalancing mode for Lag policy

Syntax:

Loadbalancing-Mode	

Command Mode: enhancedlacp : Configure Enhanced LACP mode on DVS uplink ports

Command Path:

```
# configure [['terminal', 't']]
(config)# vmware-domain <WORD> [delimiter <WORD>] [access-mode <access-mode>]
[number-of-uplinks <number-of-uplinks>]
(config-vmware)# enhancedlacp <lag-policy-name>
(config-vmware-enhancedlacp)# lbmode <Loadbalancing-Mode>
```

ldap-group-map-rule

ldap-group-map-rule <WORD>

Description: LDAP group map rule name.

Syntax:

WORD	LDAP group map rule name

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# ldap-group-map-rule <WORD>
```

ldap-group-map

ldap-group-map <WORD>

Description: Add LDAP group map to LDAP Provider group

Syntax:

WORD	LDAP group map name

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

Command Path:

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

ldap-group-map <WORD>

Description: LDAP server group map name.

Syntax:

WORD	LDAP group map name

Command Mode: configure : Configuration Mode

Command Path:

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

ldap-server attribute

ldap-server attribute <WORD>

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

Syntax:

<*WORD*>	LDAP endpoint attribute (Max Size 63)

Command Mode: configure : Configuration Mode

Command Path:

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

ldap-server basedn

ldap-server basedn <WORD>

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

Syntax:

<*WORD*>	user lookup in LDAP directory tree (Max Size 512)

Command Mode: configure : Configuration Mode

Command Path:

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

ldap-server filter

ldap-server filter <WORD>

Description: LDAP search filter for the LDAP endpoint

Syntax:

<*WORD*>	search filter for the LDAP endpoint (Max Size 63)

Command Mode: configure : Configuration Mode

Command Path:

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

ldap-server host

ldap-server host <A.B.C.D|A:B::C:D|WORD>

Description: LDAP server DNS name or IP address

Syntax:

A.B.C.D|A:B::C:D|WORD	Provide a hostname or IPV4/IPV6 address

Command Mode: configure : Configuration Mode

Command Path:

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

ldap-server retries

ldap-server retries <NUMBER>

Description: Global LDAP server retransmit count

Syntax:

<0-5>	Global LDAP server retransmit count. Number range from=0 to=5

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# ldap-server retries <NUMBER>
```

ldap-server timeout

ldap-server timeout <NUMBER>

Description: Global LDAP server timeout period in seconds

Syntax:

<1-60>	Global LDAP server timeout period in seconds. Number range from=1 to=60

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# ldap-server timeout <NUMBER>
```

leaf-group

leaf-group <WORD>

Description: Configure Leaf Group

Syntax:

WORD	Leaf Group name (Max Size 64)

Command Mode: leaf-profile : Configure Leaf Profile

Command Path:

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

leaf-group <WORD>

Description: Configure Leaf Group

Syntax:

WORD	Leaf Group name (Max Size 64)

Command Mode: leaf-profile : Configure Leaf Profile

Command Path:

```
# configure [['terminal', 't']]
(config)# fabric-internal
(config-fabric-internal)# leaf-profile <WORD>
(config-leaf-profile)# leaf-group <WORD>
```

leaf-interface-group

leaf-interface-group <WORD>

Description: Configure Leaf Interface Group

Syntax:

WORD	Leaf Interface Group name (Max Size 64)

Command Mode: leaf-interface-profile : Create Leaf Interface Profile

Command Path:

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

leaf-interface-group <WORD>

Description: Configure Leaf Interface Group

Syntax:

WORD	Leaf Interface Group name (Max Size 64)

Command Mode: leaf-interface-profile : Create Leaf Interface Profile

Command Path:

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

leaf-interface-profile

leaf-interface-profile <WORD>

Description: Attach Leaf Interface Profile to the Leaf Profile

Syntax:

WORD	Leaf Interface Profile name (Max Size 64)

Command Mode: leaf-profile : Configure Leaf Profile

Command Path:

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

leaf-interface-profile <WORD>

Description: Create Leaf Interface Profile

Syntax:

WORD	Leaf Interface Profile name (Max Size 64)

Command Mode: configure : Configuration Mode

Command Path:

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

leaf-interface-profile <WORD>

Description: Create Leaf Interface Profile

Syntax:

WORD	Leaf Interface Profile name (Max Size 64)

Command Mode: fabric-internal : Fabric Policy Configuration for internal ports

Command Path:

```
# configure [['terminal', 't']]
(config)# fabric-internal
(config-fabric-internal)# leaf-interface-profile <WORD>
```

leaf-interface-profile <WORD>

Description: Attach Leaf Interface Profile to the Leaf Profile

Syntax:

WORD	Leaf Interface Profile name (Max Size 64)

Command Mode: leaf-profile : Configure Leaf Profile

Command Path:

```
# configure [['terminal', 't']]
(config)# fabric-internal
(config-fabric-internal)# leaf-profile <WORD>
(config-leaf-profile)# leaf-interface-profile <WORD>
```

leaf-policy-group

leaf-policy-group <WORD>

Description: Configure leaf policy group

Syntax:

WORD	Leaf policy name (Max Size 64)

Command Mode: leaf-group : Configure Leaf Group

Command Path:

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

leaf-policy-group <WORD>

Description: Configure leaf policy group

Syntax:

WORD	Leaf policy name (Max Size 64)

Command Mode: leaf-group : Configure Leaf Group

Command Path:

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

leaf-profile

leaf-profile <WORD>

Description: Configure Leaf Profile

Syntax:

WORD	Leaf Profile name (Max Size 64)

Command Mode: configure : Configuration Mode

Command Path:

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

leaf-profile <WORD>

Description: Configure Leaf Profile

Syntax:

WORD	Leaf Profile name (Max Size 64)

Command Mode: fabric-internal : Fabric Policy Configuration for internal ports

Command Path:

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

leaf

leaf <101-4000>

Description: Provide a Range of Nodes

Syntax:

<101-4000>	Leaf Range or Leaf Name List

Command Mode: leaf-group : Configure Leaf Group

Command Path:

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

leaf <101-4000>

Description: Provide a Range of Nodes

Syntax:

<101-4000>	Leaf Range or Leaf Name List

Command Mode: leaf-group : Configure Leaf Group

Command Path:

```
# configure [['terminal', 't']]
(config)# fabric-internal
(config-fabric-internal)# leaf-profile <WORD>
(config-leaf-profile)# leaf-group <WORD>
(config-leaf-group)# leaf <101-4000>
```

leaf <101-4000>

Description: Configure Leaf Node

Syntax:

<101-4000>	Leaf Range or Leaf Name List

Command Mode: configure : Configuration Mode

Command Path:

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

legacy

legacy forwarding vlan <NUMBER> vlan-domain <WORD>

Description: Set the bridge domain to behave as a L2 vlan in traditional ethernet environment

Syntax:

forwarding	Forwarding keyword
vlan	Legacy Vlan Number
<1-4094>	Legacy Vlan Number. Number range from=1 to=4094
vlan-domain	Name of the vlan domain to use
WORD	Name of the vlan domain to use (Max Size 64)

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

Command Path:

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

license smart deregister

license smart deregister

Description: Deregister device from Smart Licensing

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# license smart deregister
```

license smart hostname

license smart hostname privacy <privacyVal>

Description: Device Host Name

Syntax:

privacy	Privacy
privacyVal	privacyVal

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# license smart hostname privacy <privacyVal>
```

license smart import

license smart import certificate <certificate>

Description: Import Certificate

Syntax:

certificate	Certificate of CSSM, CSSM Satellite or Transport Gateway
<*certificate*>	Content of certificate

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# license smart import certificate <certificate>
```

license smart register

license smart register idtoken <id token> force

Description: Register device for Smart Licensing

Syntax:

idtoken	Use Registration Token to register device
<id token>	Id Token used to register device
force	Override existing registration information

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# license smart register idtoken <id token> force
```

license smart remove

license smart remove certificate <certificate>

Description: Remove certificate

Syntax:

certificate	Certificate of CSSM, CSSM Satellite or Transport Gateway
<*certificate*>	Content of certificate

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# license smart remove certificate <certificate>
```

license smart renew auth

license smart renew auth

Description: Renew authorization of Smart Licenses in use

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# license smart renew auth
```

license smart renew id

license smart renew id

Description: Renew registration with Smart Licensing

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# license smart renew id
```

license smart reservation cancel

license smart reservation cancel

Description: Cancel a smart license reservation request

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# license smart reservation cancel
```

license smart reservation enable

license smart reservation enable

Description: Enable Permanent License Reservation

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# license smart reservation enable
```

license smart reservation install

license smart reservation install <key>

Description: Install a smart license authorization code

Syntax:

<*key*>	The authorization key from the CSSM

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# license smart reservation install <key>
```

license smart reservation request

license smart reservation request universal

Description: Request a license reservation

Syntax:

universal	Request a universal license reservation

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# license smart reservation request universal
```

license smart reservation return

license smart reservation return

Description: Return permanent license

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# license smart reservation return
```

license smart reservation return auth

license smart reservation return_auth <authorization code>

Description: Return permanent license install code

Syntax:

<authorization code>	The authorization code

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# license smart reservation return_auth <authorization code>
```

license smart transport-mode proxy

license smart transport-mode proxy ip-address <ip address> port <port number>

Description: HTTP/HTTPS Proxy

Syntax:

ip-address	IP address of third-party proxy server(Apache)
<*ip address*>	IP address
port	Port number of third-party proxy server (Apache)
<*port number*>	Port number

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# license smart transport-mode proxy ip-address <ip address> port <port number>
```

license smart transport-mode satellite

license smart transport-mode satellite url <url>

Description: Transport Gateway/Smart Software Manager Satellite

Syntax:

url	URL of CSSM Satellite or Transport Gateway
<url>	http(s)://<ip-address/hostname>:<port>/Transportgateway/services/DeviceRequestHandler

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# license smart transport-mode satellite url <url>
```

license smart transport-mode smart-licensing

license smart transport-mode smart-licensing

Description: Direct Connect to Cisco Smart Software Manager(CSSM)

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# license smart transport-mode smart-licensing
```

life-time end

life-time end <end_time>

Description: Set end time

Syntax:

end_time	End time (in YYYY-MM-DDTHH:MM:SS format) or 'infinite'

Command Mode: key : Configure CKN as hex string of max 64 characters

Command Path:

```
# configure [['terminal', 't']]
(config)# template macsec access|fabric keychain <WORD>
(config-macsec-keychain)# key <WORD>
(config-macsec-keychain-key)# life-time end <end_time>
```

life-time start

life-time start <start_time> [end <end_time>]

Description: Set start time

Syntax:

start_time	Start time (in YYYY-MM-DDTHH:MM:SS format) or 'now'
end_time	(Optional) End time (in YYYY-MM-DDTHH:MM:SS format) or 'infinite'

Command Mode: key : Configure CKN as hex string of max 64 characters

Command Path:

```
# configure [['terminal', 't']]
(config)# template macsec access|fabric keychain <WORD>
(config-macsec-keychain)# key <WORD>
(config-macsec-keychain-key)# life-time start <start_time> [end <end_time>]
```

link-failover-policy

link-failover-policy <WORD>

Description: Configure Fast Link Failover policy

Syntax:

WORD	Provide a Fast Link Failover policy name

Command Mode: configure : Configuration Mode

Command Path:

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

link-failover-policy <arg>

Description: Add Fast Link Failover policy

Syntax:

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)# link-failover-policy <>
```

link

link debounce time <NUMBER>

Description: Configure link

Syntax:

debounce	Configure link debounce timer
time	Link debounce time
<*time*>	Timer value (in milliseconds). Number range from=0 to=5000

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

Command Path:

```
# configure [['terminal', 't']]
(config)# template policy-group <WORD>
(config-pol-grp-if)# link debounce time <NUMBER>
```

link debounce time <NUMBER>

Description: Configure link

Syntax:

debounce	Configure link debounce timer
time	Link debounce time
<*time*>	Timer value (in milliseconds). Number range from=0 to=5000

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

Command Path:

```
# configure [['terminal', 't']]
(config)# template port-channel <WORD>
(config-po-ch-if)# link debounce time <NUMBER>
```

link debounce time <NUMBER>

Description: Configure link

Syntax:

debounce	Configure link debounce timer
time	Link debounce time
<*time*>	Timer value (in milliseconds). Number range from=0 to=5000

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

Command Path:

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

link debounce time <NUMBER>

Description: Configure link

Syntax:

debounce	Configure link debounce timer
time	Link debounce time
<*time*>	Timer value (in milliseconds). Number range from=0 to=5000

Command Mode: interface ethernet : Ethernet IEEE 802.3z

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface ethernet <ifRange>
(config-leaf-if)# link debounce time <NUMBER>
```

link debounce time <NUMBER>

Description: Configure link

Syntax:

debounce	Configure link debounce timer
time	Link debounce time
<*time*>	Timer value (in milliseconds). Number range from=0 to=5000

Command Mode: interface port-channel : Port Channel interface

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface port-channel <WORD> [fex <fex>]
(config-leaf-if)# link debounce time <NUMBER>
```

link debounce time <NUMBER>

Description: Configure link

Syntax:

debounce	Configure link debounce timer
time	Link debounce time
<*time*>	Timer value (in milliseconds). Number range from=0 to=5000

Command Mode: interface ethernet : Ethernet IEEE 802.3z

Command Path:

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface ethernet <ifRange>
(config-leaf-if)# link debounce time <NUMBER>
```

link debounce time <NUMBER>

Description: Configure link

Syntax:

debounce	Configure link debounce timer
time	Link debounce time
<*time*>	Timer value (in milliseconds). Number range from=0 to=5000

Command Mode: interface port-channel : Port Channel interface

Command Path:

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface port-channel <WORD> [fex <fex>]
(config-leaf-if)# link debounce time <NUMBER>
```

link debounce time <NUMBER>

Description: Configure link

Syntax:

debounce	Configure link debounce timer
time	Link debounce time
<*time*>	Timer value (in milliseconds). Number range from=0 to=5000

Command Mode: interface : Provide VPC Name

Command Path:

```
# configure [['terminal', 't']]
(config)# vpc context leaf <101-4000> <101-4000> [fex <fex>]
(config-vpc)# interface vpc <WORD> [fex <fex>]
```

```
(config-vpc-if)# link debounce time <NUMBER>
```

lldp

lldp receive|transmit|both|default

Description: Configure Interface LLDP parameters on DVS uplink ports

Syntax:

receive	Enable LLDP reception
transmit	Enable LLDP transmission
both	Enable LLDP in both directions
default	Remove LLDP override policy

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

Command Path:

```
# configure [['terminal', 't']]
(config)# vmware-domain <WORD> [delimiter <WORD>] [access-mode <access-mode>]
[number-of-uplinks <number-of-uplinks>]
(config-vmware)# configure-dvs
(config-vmware-dvs)# lldp receive|transmit|both|default
```

lldp receive|transmit|both|default

Description: Configure Interface LLDP parameters on AVS/AVE uplink ports

Syntax:

receive	Enable LLDP reception
transmit	Enable LLDP transmission
both	Enable LLDP in both directions
default	Remove LLDP override policy

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

Command Path:

```
# configure [['terminal', 't']]
(config)# vmware-domain <WORD> [delimiter <WORD>] [access-mode <access-mode>]
[number-of-uplinks <number-of-uplinks>]
(config-vmware)# configure-avs
(config-vmware-avs)# lldp receive|transmit|both|default
```

lldp receive|transmit|both|default

Description: Configure Interface LLDP parameters on AVS/AVE uplink ports

Syntax:

receive	Enable LLDP reception
transmit	Enable LLDP transmission
both	Enable LLDP in both directions
default	Remove LLDP override policy

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

Command Path:

```
# configure [['terminal', 't']]
(config)# vmware-domain <WORD> [delimiter <WORD>] [access-mode <access-mode>]
[number-of-uplinks <number-of-uplinks>]
(config-vmware)# configure-ave
(config-vmware-ave)# lldp receive|transmit|both|default
```

lldp receive|transmit

Description: Configure Interface LLDP parameters

Syntax:

receive	Enable LLDP reception on interface
transmit	Enable LLDP transmission on interface

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

Command Path:

```
# configure [['terminal', 't']]
(config)# template policy-group <WORD>
(config-pol-grp-if)# lldp receive|transmit
```

lldp receive|transmit

Description: Configure Interface LLDP parameters

Syntax:

receive	Enable LLDP reception on interface
transmit	Enable LLDP transmission on interface

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

Command Path:

```
# configure [['terminal', 't']]
(config)# template port-channel <WORD>
(config-po-ch-if)# lldp receive|transmit
```

lldp receive|transmit

Description: Configure Interface LLDP parameters

Syntax:

receive	Enable LLDP reception on interface
transmit	Enable LLDP transmission on interface

Command Mode: interface ethernet : Ethernet IEEE 802.3z

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface ethernet <ifRange>
(config-leaf-if)# lldp receive|transmit
```

lldp receive|transmit

Description: Configure Interface LLDP parameters

Syntax:

receive	Enable LLDP reception on interface
transmit	Enable LLDP transmission on interface

Command Mode: interface port-channel : Port Channel interface

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface port-channel <WORD> [fex <fex>]
(config-leaf-if)# lldp receive|transmit
```

lldp receive|transmit

Description: Configure Interface LLDP parameters

Syntax:

receive	Enable LLDP reception on interface
transmit	Enable LLDP transmission on interface

Command Mode: interface ethernet : Ethernet IEEE 802.3z

Command Path:

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface ethernet <ifRange>
(config-leaf-if)# lldp receive|transmit
```

lldp receive|transmit

Description: Configure Interface LLDP parameters

Syntax:

receive	Enable LLDP reception on interface
transmit	Enable LLDP transmission on interface

Command Mode: interface port-channel : Port Channel interface

Command Path:

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface port-channel <WORD> [fex <fex>]
(config-leaf-if)# lldp receive|transmit
```

lldp receive|transmit

Description: Configure Interface LLDP parameters

Syntax:

receive	Enable LLDP reception on interface
transmit	Enable LLDP transmission on interface

Command Mode: interface : Provide VPC Name

Command Path:

```
# configure [['terminal', 't']]
(config)# vpc context leaf <101-4000> <101-4000> [fex <fex>]
(config-vpc)# interface vpc <WORD> [fex <fex>]
(config-vpc-if)# lldp receive|transmit
```

lldp holdtime

lldp holdtime <NUMBER>

Description: Specify the hold time to be sent in LLDP packets

Syntax:

<10-255>	Holdtime in sec. Number range from=10 to=255

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# lldp holdtime <NUMBER>
```

lldp reinit

lldp reinit <NUMBER>

Description: Specify the delay for LLDP initialization on an interface

Syntax:

<1-10>	Reinit Delay in sec. Number range from=1 to=10

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# lldp reinit <NUMBER>
```

lldp timer

lldp timer <NUMBER>

Description: Specify the rate at which LLDP packets are sent

Syntax:

<5-254>	Rate of packets in sec. Number range from=5 to=254

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# lldp timer <NUMBER>
```

load-balance

load-balance <WORD>

Description: Configure load balance hash fields

Syntax:

WORD	Hash Fields

Command Mode: lacp symmetric-hash : Configure symmetric hashing policy

Command Path:

```
# configure [['terminal', 't']]
(config)# template port-channel <WORD>
(config-po-ch-if)# lacp symmetric-hash
(config-po-ch-sym-hash)# load-balance <WORD>
```

load-balance <WORD>

Description: Configure load balance hash fields

Syntax:

WORD	Hash Fields

Command Mode: lacp symmetric-hash : Configure symmetric hashing policy

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface port-channel <WORD> [fex <fex>]
(config-leaf-if)# lacp symmetric-hash
(config-po-ch-sym-hash)# load-balance <WORD>
```

load-balance <WORD>

Description: Configure load balance hash fields

Syntax:

WORD	Hash Fields

Command Mode: lacp symmetric-hash : Configure symmetric hashing policy

Command Path:

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface port-channel <WORD> [fex <fex>]
(config-leaf-if)# lacp symmetric-hash
```

```
(config-po-ch-sym-hash)# load-balance <WORD>
```

local-as

local-as <NUMBER> no-prepend|replace-as|dual-as

Description: Local Autonomous System Configuration for a BGP Peer

Syntax:

<1-4294967295>	The local autonomous system number. Number range from=1 to=4294967295
no-prepend	Do not prepend local-as to updates from ebgp peers
replace-as	Replace real AS with local AS in the EBGP updates
dual-as	Accept either real AS or local AS from the ebgp peer

Command Mode: neighbor : Configure a BGP neighbor

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# router bgp <fabric-ASN>
(config-leaf-bgp)# vrf member tenant <WORD> vrf <WORD>
(config-leaf-bgp-vrf)# neighbor A.B.C.D|A.B.C.D/LEN|A:B::C:D|A:B::C:D/LEN [evpn] [l3out
<WORD>]
(config-leaf-bgp-vrf-neighbor)# local-as <NUMBER> no-prepend|replace-as|dual-as
```

local-as <NUMBER> no-prepend|replace-as|dual-as

Description: Local Autonomous System Configuration for a BGP Peer

Syntax:

<1-4294967295>	The local autonomous system number. Number range from=1 to=4294967295
no-prepend	Do not prepend local-as to updates from ebgp peers
replace-as	Replace real AS with local AS in the EBGP updates
dual-as	Accept either real AS or local AS from the ebgp peer

Command Mode: neighbor : Configure a BGP neighbor

Command Path:

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# router bgp <fabric-ASN>
(config-leaf-bgp)# vrf member tenant <WORD> vrf <WORD>
(config-leaf-bgp-vrf)# neighbor A.B.C.D|A.B.C.D/LEN|A:B::C:D|A:B::C:D/LEN [evpn] [l3out
<WORD>]
```

```
(config-leaf-bgp-vrf-neighbor)# local-as <NUMBER> no-prepend|replace-as|dual-as
```

locality

locality <WORD>

Description: Set The city or town of the organization.

Syntax:

<*WORD*>	city or town (Max Size 64)

Command Mode: csr : A csr mode to create and hold an SSL certificate

Command Path:

```
# configure [['terminal', 't']]
(config)# crypto keyring <WORD>
(config-keyring)# csr
(config-csr)# locality <WORD>
```

logfile

logfile [severity <severity>] [format <format>]

Description: Enable the logging to logfile

Syntax:

severity	(Optional) The severity level for the logs
format	(Optional) The format for the syslog messages

Command Mode: logging : Logging server group configuration mode

Command Path:

```
# configure [['terminal', 't']]
(config)# logging server-group <WORD>
(config-logging)# logfile [severity <severity>] [format <format>]
```

logging

logging server-group <WORD>

Description: Logging server group configuration mode

Syntax:

server-group	Logging Server-Group configuration
WORD	Logging server-group name (Max Size 64)

Command Mode: configure : Configuration Mode

Command Path:

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

logging audit

logging audit

Description: Enable audit and session logs to the policy

Command Mode: callhome : Callhome common policy configuration mode

Command Path:

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

logging audit

Description: Enable audit and session logs to the policy

Command Mode: smartcallhome : Smart Callhome common policy configuration mode

Command Path:

```
# configure [['terminal', 't']]
(config)# smartcallhome common
(config-smartcallhome)# logging audit
```

logging audit

Description: Enable audit logs to the policy

Command Mode: syslog : Syslog common policy configuration mode

Command Path:

```
# configure [['terminal', 't']]
(config)# syslog common
(config-syslog)# logging audit
```

logging description

logging description <WORD>

Description: Add description for syslog common

Syntax:

WORD	Description (Max Size 128) surrounded by single quotes

Command Mode: syslog : Syslog common policy configuration mode

Command Path:

```
# configure [['terminal', 't']]
(config)# syslog common
(config-syslog)# logging description <WORD>
```

logging event

logging event

Description: Enable event logs to the policy

Command Mode: callhome : Callhome common policy configuration mode

Command Path:

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

logging event

Description: Enable event logs to the policy

Command Mode: smartcallhome : Smart Callhome common policy configuration mode

Command Path:

```
# configure [['terminal', 't']]
(config)# smartcallhome common
(config-smartcallhome)# logging event
```

logging event

Description: Enable event logs to the policy

Command Mode: syslog : Syslog common policy configuration mode

Command Path:

```
# configure [['terminal', 't']]
(config)# syslog common
(config-syslog)# logging event
```

logging fault

logging fault

Description: Enable fault logs to the policy

Command Mode: callhome : Callhome common policy configuration mode

Command Path:

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

logging fault

Description: Enable fault logs to the policy

Command Mode: smartcallhome : Smart Callhome common policy configuration mode

Command Path:

```
# configure [['terminal', 't']]
(config)# smartcallhome common
(config-smartcallhome)# logging fault
```

logging fault

Description: Enable fault logs to the policy

Command Mode: syslog : Syslog common policy configuration mode

Command Path:

```
# configure [['terminal', 't']]
(config)# syslog common
(config-syslog)# logging fault
```

logging server-group

logging server-group <WORD>

Description: Logging server group configuration

Syntax:

WORD	Logging server-group name (Max Size 64)

Command Mode: syslog : Syslog common policy configuration mode

Command Path:

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

logging session

logging session

Description: Enable session logs to the policy

Command Mode: syslog : Syslog common policy configuration mode

Command Path:

```
# configure [['terminal', 't']]
(config)# syslog common
(config-syslog)# logging session
```

logging severity

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

Description: Configure minimum severity level for logs generated

Syntax:

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

Command Mode: callhome : Callhome common policy configuration mode

Command Path:

```
# configure [['terminal', 't']]
(config)# callhome common
(config-callhome)# logging severity info|notice|emergency|alert|critical|error|debug|warning
```

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

Description: Configure minimum severity level for logs generated

Syntax:

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

Command Mode: smartcallhome : Smart Callhome common policy configuration mode

Command Path:

```
# configure [['terminal', 't']]
(config)# smartcallhome common
(config-smartcallhome)# logging severity
info|notice|emergency|alert|critical|error|debug|warning
```

logging severity emergencies|debugging|critical|errors|warnings|information|alerts|notifications

Description: Configure minimum severity level for logs generated

Syntax:

emergencies	Emergencies
debugging	Debugging
critical	Critical
errors	Errors
warnings	Warnings
information	Information
alerts	Alerts
notifications	Notifications

Command Mode: syslog : Syslog common policy configuration mode

Command Path:

```
# configure [['terminal', 't']]
(config)# syslog common
(config-syslog)# logging severity
emergencies|debugging|critical|errors|warnings|information|alerts|notifications
```

logit

logit severity <severity> dest-grp <WORD> server <Remote Dest Name> <Syslog message>

Description: Syslog send message command

Syntax:

severity	The severity level for the logs
severity	severity
dest-grp	Remote destination group
WORD	Logging server-group name (Max Size 64)
server	Remote destination name
Remote Dest Name	The hostname or ipaddress
Syslog message	Message sent to syslog server

Command Mode: exec : Exec Mode

Command Path:

```
# logit severity <severity> dest-grp <WORD> server <Remote Dest Name> <Syslog message>
```

logit severity dest-grp server node

logit severity <severity> dest-grp <WORD> server <Remote Dest Name> <Syslog message> node <Source node>

Description: Source node

Syntax:

severity	The severity level for the logs
severity	severity
dest-grp	Remote destination group
WORD	Logging server-group name (Max Size 64)
server	Remote destination name
Remote Dest Name	The hostname or ipaddress
Syslog message	Message sent to syslog server
Source node	leaf or spine node. Number range from=0 to=9223372036854775807

Command Mode: exec : Exec Mode

Command Path:

```
# logit severity <severity> dest-grp <WORD> server <Remote Dest Name> <Syslog message> node
 <Source node>
```

lsp-fast-flood

lsp-fast-flood

Description: Enables the ISIS LSP fast flood

Command Mode: isis : Intermediate System to Intermediate System (IS-IS)

Command Path:

```
# configure [['terminal', 't']]
(config)# pod <NUMBER>
(config-pod)# isis fabric
(config-pod-isis)# lsp-fast-flood
```

lsp-fast-flood

Description: Enables the ISIS LSP fast flood

Command Mode: template isis-fabric : InterSystem-InterSystem Protocol (IS-IS)

Command Path:

```
# configure [['terminal', 't']]
(config)# template isis-fabric <WORD>
(config-template-isis-fabric)# lsp-fast-flood
```

lsp-gen-interval

lsp-gen-interval level-1 <NUMBER> <50-120000> <50-120000>

Description: Set the ISIS LSP generation maximal wait interval

Syntax:

level-1	Level 1
<50-120000>	LSP generation maximum wait interval. Number range from=50 to=120000
<50-120000> <50-120000>	Initial and secondary wait intervals (both values are required)

Command Mode: isis : Intermediate System to Intermediate System (IS-IS)

Command Path:

```
# configure [['terminal', 't']]
(config)# pod <NUMBER>
(config-pod)# isis fabric
(config-pod-isis)# lsp-gen-interval level-1 <NUMBER> <50-120000> <50-120000>
```

lsp-gen-interval level-1 <NUMBER> <50-120000> <50-120000>

Description: Set the ISIS LSP generation maximal wait interval

Syntax:

level-1	Level 1
<50-120000>	LSP generation maximum wait interval. Number range from=50 to=120000
<50-120000> <50-120000>	Initial and secondary wait intervals (both values are required)

Command Mode: template isis-fabric : InterSystem-InterSystem Protocol (IS-IS)

Command Path:

```
# configure [['terminal', 't']]
(config)# template isis-fabric <WORD>
(config-template-isis-fabric)# lsp-gen-interval level-1 <NUMBER> <50-120000> <50-120000>
```

lsp-mtu

lsp-mtu <NUMBER>

Description: Set the configuration of link-state packet (LSP) maximum transmission units (MTU) value

Syntax:

<256-4352>	The configuration of link-state packet (LSP) maximum transmission units (MTU).. Number range from=256 to=4352

Command Mode: isis : Intermediate System to Intermediate System (IS-IS)

Command Path:

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

lsp-mtu <NUMBER>

Description: Set the configuration of link-state packet (LSP) maximum transmission units (MTU) value

Syntax:

<256-4352>	The configuration of link-state packet (LSP) maximum transmission units (MTU).. Number range from=256 to=4352

Command Mode: template isis-fabric : InterSystem-InterSystem Protocol (IS-IS)

Command Path:

```
# configure [['terminal', 't']]
(config)# template isis-fabric <WORD>
(config-template-isis-fabric)# lsp-mtu <NUMBER>
```