



T Commands

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tacacs-server host

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

Description: TACACS+ server's DNS name or its IP address

Syntax:

<i>A.B.C.D A:B::C:D WORD</i>	TACACS+ server's DNS name or its IP address
------------------------------	---

Command Mode: configure : Configuration Mode

Command Path:

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

tacacs-server retries

tacacs-server retries <NUMBER>

Description: Global TACACS+ server retries period in seconds

Syntax:

<0-5>	Global TACACS+ server retries period in seconds. Number range from=0 to=5
-------	---

Command Mode: configure : Configuration Mode

Command Path:

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

tacacs-server timeout

tacacs-server timeout <NUMBER>

Description: Global TACACS+ server timeout period in seconds

Syntax:

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

Command Mode: configure : Configuration Mode

Command Path:

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

tag

tag <WORD>

Description: Add a tag to an epg

Syntax:

<i>WORD</i>	Tag for the object (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)# tag <WORD>
```

tag <WORD>

Description: Add a tag to an application

Syntax:

<i>WORD</i>	Tag for the object (Max Size 64)
-------------	----------------------------------

Command Mode: application : application configuration mode

Command Path:

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

tag <WORD>

Description: Add a tag to the tenant

Syntax:

<i>WORD</i>	Tag for the object (Max Size 64)
-------------	----------------------------------

Command Mode: tenant : tenant configuration mode

Command Path:

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



```
(config-tenant)# tag <WORD>
```

tag <NUMBER>**Description:** Set Route Tag**Syntax:**

<0-4294967295>	Route Tag Value. Number range from=0 to=4294967295
----------------	--

Command Mode: template route tag : Configure Route Tag Policy Templates**Command Path:**

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template route tag <WORD> tenant <WORD>
(config-route-tag)# tag <NUMBER>
```

target

target self|children|subtree

Description: Configure target dn/class

Syntax:

self	Self
children	Children
subtree	Subtree

Command Mode: query : Configure Query profile Parameters

Command Path:

```
# configure [['terminal', 't']]
(config)# callhome common
(config-callhome)# query-profile
(config-callhome-queryprof)# query <WORD> type dn|class <dn/classname>
(config-callhome-queryprof-query)# target self|children|subtree
```

target <WORD>

Description: Snapshot target

Syntax:

<i>WORD</i>	infra, fabric or tenant-x
-------------	---------------------------

Command Mode: snapshot export : Configuration export setup mode

Command Path:

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

telnet

telnet

Description: TELNET communication policy group

Command Mode: comm-policy : Configure any communication policy, ssh/telnet/shellinabox/http/https

Command Path:

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

template bfd

template bfd ip|ipv6 <WORD>

Description: BFD group of commands

Syntax:

ip	IPV4 Address
ipv6	IPV6 Address
<i>WORD</i>	Create a BFD policy

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# template bfd ip|ipv6 <WORD>
```

template bfd <WORD> tenant <WORD>

Description: Configure BFD Interface Policy Templates

Syntax:

<i>WORD</i>	BFD Interface Policy name (Max Size 64)
tenant	Tenant for the BFD Policy
<i>WORD</i>	Tenant name (Max Size 63)

Command Mode: leaf : Configure Leaf Node

Command Path:

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

template bgp address-family

template bgp address-family <WORD> tenant <WORD>

Description: Configure Router BGP Address Family Templates

Syntax:

<i>WORD</i>	BGP Address Family Policy Name (Max Size 64)
tenant	Tenant for the BGP Policy
<i>WORD</i>	Tenant Name

Command Mode: leaf : Configure Leaf Node

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template bgp address-family <WORD> tenant <WORD>
```

template bgp timers

template bgp timers <WORD> tenant <WORD>

Description: Configure Router BGP Timer Policy Templates

Syntax:

<i>WORD</i>	Router BGP Timer Policy Name (Max Size 64)
tenant	Tenant for the BGP Policy
<i>WORD</i>	Tenant Name (Max Size 63)

Command Mode: leaf : Configure Leaf Node

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template bgp timers <WORD> tenant <WORD>
```

template community-list expanded

template community-list expanded <WORD> <regular expression> tenant <WORD>

Description: Configure expanded community list templates

Syntax:

<i>WORD</i>	community name (Max Size 64)
< <i>regular expression</i> >	community regular expression
tenant	Tenant for the VRF
<i>WORD</i>	Tenant name

Command Mode: leaf : Configure Leaf Node

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template community-list expanded <WORD> <regular expression> tenant <WORD>
```

template community-list standard

template community-list standard <WORD> <community list> tenant <WORD>

Description: Configure standard community list templates

Syntax:

<i>WORD</i>	community name (Max Size 64)
<i><community list></i>	<community list>
tenant	Tenant for the VRF
<i>WORD</i>	Tenant name

Command Mode: leaf : Configure Leaf Node

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template community-list standard <WORD> <community list> tenant <WORD>
```


template dhcp option

template dhcp option policy <WORD>

Description: Create a DHCP Option policy

Syntax:

policy	Name of the DHCP Option Policy
<i>WORD</i>	Name of the DHCP Option Policy (Max Size 64)

Command Mode: tenant : tenant configuration mode

Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template dhcp option policy <WORD>
```

template dhcp relay

template dhcp relay policy <WORD>

Description: Create a DHCP Relay policy

Syntax:

policy	Name of the DHCP relay policy
<i>WORD</i>	Name of the DHCP relay policy (Max Size 64)

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# template dhcp relay policy <WORD>
```

template dhcp relay policy <WORD>

Description: Create a DHCP Relay policy

Syntax:

policy	Name of the DHCP relay policy
<i>WORD</i>	Name of the DHCP relay policy (Max Size 64)

Command Mode: tenant : tenant configuration mode

Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template dhcp relay policy <WORD>
```

template eigrp interface-policy

template eigrp interface-policy <WORD> tenant <WORD>

Description: Configure EIGRP Interface policy templates

Syntax:

<i>WORD</i>	Policy name (Max Size 64)
tenant	Tenant for the EIGRP Interface Policy
<i>WORD</i>	Tenant name

Command Mode: leaf : Configure Leaf Node

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template eigrp interface-policy <WORD> tenant <WORD>
```

template eigrp vrf-policy

template eigrp vrf-policy <WORD> tenant <WORD>

Description: Configure EIGRP VRF policy templates

Syntax:

<i>WORD</i>	Policy name (Max Size 64)
tenant	Tenant for the EIGRP VRF Policy
<i>WORD</i>	Tenant name

Command Mode: leaf : Configure Leaf Node

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template eigrp vrf-policy <WORD> tenant <WORD>
```

template endpoint retention policy

template endpoint retention policy <WORD>

Description: Configure an endpoint retention policy

Syntax:

<i>WORD</i>	Name of the endpoint retention policy to set (Max Size 64)
-------------	--

Command Mode: tenant : tenant configuration mode

Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template endpoint retention policy <WORD>
```

template extcommunity-list expanded

template extcommunity-list expanded <WORD> <regular expression> tenant <WORD>

Description: Configure expanded community list templates

Syntax:

<i>WORD</i>	community name (Max Size 64)
< <i>regular expression</i> >	community regular expression
tenant	Tenant for the VRF
<i>WORD</i>	Tenant name

Command Mode: leaf : Configure Leaf Node

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template extcommunity-list expanded <WORD> <regular expression> tenant <WORD>
```

template extcommunity-list standard

template extcommunity-list standard <WORD> [scope <scope>] <community list> tenant <WORD>

Description: Configure standard community list templates

Syntax:

<i>WORD</i>	community name (Max Size 64)
<i>scope</i>	(Optional) transitive or non-transitive
< <i>community list</i> >	<community list>
tenant	Tenant for the VRF
<i>WORD</i>	Tenant name

Command Mode: leaf : Configure Leaf Node

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template extcommunity-list standard <WORD> [scope <scope>] <community list>
tenant <WORD>
```

template ip igmp snooping policy

template ip igmp snooping policy <WORD>

Description: Create an IGMP snooping policy

Syntax:

<i>WORD</i>	Name of the IGMP snooping policy to define (Max Size 64)
-------------	--

Command Mode: tenant : tenant configuration mode

Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template ip igmp snooping policy <WORD>
```


template ipv6 nd policy

template ipv6 nd policy <WORD>

Description: Create/modify an IPv6 Neighbor Discovery policy

Syntax:

<i>WORD</i>	Name of the policy to create/modify (Max Size 64)
-------------	---

Command Mode: tenant : tenant configuration mode

Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template ipv6 nd policy <WORD>
```

template ipv6 nd policy <WORD> tenant <WORD>

Description: Configure IPv6 Neighbor Discovery policy templates

Syntax:

<i>WORD</i>	Policy name (Max Size 64)
tenant	Tenant for the ND Policy
<i>WORD</i>	Tenant name

Command Mode: leaf : Configure Leaf Node

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template ipv6 nd policy <WORD> tenant <WORD>
```

template ipv6 nd prefix

template ipv6 nd prefix policy <WORD>

Description: Create/modify an an IPv6 Neighbor Prefix policy

Syntax:

policy	IPv6 ND Prefix Policy
<i>WORD</i>	Name of the policy to create/modify (Max Size 64)

Command Mode: tenant : tenant configuration mode

Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# template ipv6 nd prefix policy <WORD>
```

template leaf-policy-group

template leaf-policy-group <WORD>

Description: Configure Leaf Policy Group

Syntax:

<i>WORD</i>	Leaf Policy Group Name
-------------	------------------------

Command Mode: configure : Configuration Mode

Command Path:

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

template ospf interface-policy

template ospf interface-policy <WORD> tenant <WORD>

Description: Configure OSPF Interface Policy Templates

Syntax:

<i>WORD</i>	OSPF Interface Policy name (Max Size 64)
tenant	Tenant for the OSPF Policy
<i>WORD</i>	Tenant name (Max Size 63)

Command Mode: leaf : Configure Leaf Node

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template ospf interface-policy <WORD> tenant <WORD>
```

template ospf vrf-policy

template ospf vrf-policy <WORD> tenant <WORD>

Description: Configure Router OSPF Timer Policy Templates

Syntax:

<i>WORD</i>	Router OSPF Timer Policy name (Max Size 64)
tenant	Tenant for the OSPF Policy
<i>WORD</i>	Tenant name (Max Size 63)

Command Mode: leaf : Configure Leaf Node

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template ospf vrf-policy <WORD> tenant <WORD>
```

template policy-group

template policy-group <WORD>

Description: Configure Policy Group Parameters

Syntax:

<i>WORD</i>	Interface Policy Group Name (Max Size 64)
-------------	---

Command Mode: configure : Configuration Mode

Command Path:

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

template port-channel

template port-channel <WORD>

Description: Configure Port-Channel Parameters

Syntax:

<i>WORD</i>	Port-Channel/VPC Name (Max Size 64)
-------------	-------------------------------------

Command Mode: configure : Configuration Mode

Command Path:

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

template route-profile

template route-profile <WORD> tenant <WORD>

Description: Configure route-profile template under tenant for BGP dampening and route redistribution

Syntax:

<i>WORD</i>	Route-profile template name (Max Size 64)
tenant	Tenant for the route-profile template
<i>WORD</i>	Tenant Name (Max Size 63)

Command Mode: leaf : Configure Leaf Node

Command Path:

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

template route-profile <WORD>

Description: Configure route-profile template under VRF/L3Out for bridge-domain export

Syntax:

<i>WORD</i>	Route-profile template name
-------------	-----------------------------

Command Mode: vrf : Configure VRF parameters

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# vrf context tenant <WORD> vrf <WORD> [l3out <l3out>]
(config-leaf-vrf)# template route-profile <WORD>
```


template route tag

template route tag <WORD> tenant <WORD>

Description: Configure Route Tag Policy Templates

Syntax:

<i>WORD</i>	Route Tag Policy Name (Max Size 64)
tenant	Tenant for the Route Tag Policy
<i>WORD</i>	Tenant Name (Max Size 63)

Command Mode: leaf : Configure Leaf Node

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template route tag <WORD> tenant <WORD>
```

tenant

tenant <WORD>

Description: tenant configuration mode

Syntax:

<i>WORD</i>	tenant name (Max Size 63)
-------------	---------------------------

Command Mode: configure : Configuration Mode

Command Path:

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

terminal

terminal length <NUMBER>

Description: Enable or disable pager for command output

Syntax:

length	Terminal length keyword
<i>NUMBER</i>	Terminal pager length (0=Disable pager). Number range from=0 to=511

Command Mode: exec : Exec Mode

Command Path:

```
# terminal length <NUMBER>
```

time

time start <date-time>

Description: Start controller-group upgrade

Syntax:

start	Set time to trigger upgrade
<date-time>	Set the start time ([[yyyy:]mmm:]dd:]HH:MM)

Command Mode: controller-group : Controller Upgrade Configuration Mode

Command Path:

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

time start <TIME>

Description: Set the window start time

Syntax:

start	Set the start time
<i>TIME</i>	Set the start time ([[yyyy:]mmm:]dd:]HH:MM)

Command Mode: absolute : Absolute window configuration mode

Command Path:

```
# configure [['terminal', 't']]
(config)# scheduler fabric|controller schedule <WORD>
(config-scheduler)# absolute window <WORD>
(config-scheduler-absolute)# time start <TIME>
```

time start daily

time start daily <TIME>

Description: Specify a daily schedule

Syntax:

<i>TIME</i>	Trigger time in HH:MM format
-------------	------------------------------

Command Mode: recurring : Recurring window configuration mode

Command Path:

```
# configure [['terminal', 't']]
(config)# scheduler fabric|controller schedule <WORD>
(config-scheduler)# recurring window <WORD>
(config-scheduler-recurring)# time start daily <TIME>
```

time start weekly

time start weekly monday|tuesday|wednesday|thursday|friday|saturday|sunday|even-day|odd-day|every-day <TIME>

Description: Specify a weekly schedule

Syntax:

monday	Mondays
tuesday	Tuesdays
wednesday	Wednesdays
thursday	Thursdays
friday	Fridays
saturday	Saturdays
sunday	Sundays
even-day	Even days
odd-day	Odd days
every-day	Everyday
<i>TIME</i>	Trigger time in HH:MM format

Command Mode: recurring : Recurring window configuration mode

Command Path:

```
# configure [['terminal', 't']]
(config)# scheduler fabric|controller schedule <WORD>
(config-scheduler)# recurring window <WORD>
(config-scheduler-recurring)# time start weekly
monday|tuesday|wednesday|thursday|friday|saturday|sunday|even-day|odd-day|every-day <TIME>
```

timeout

timeout <NUMBER>

Description: LDAP server timeout for authentication

Syntax:

<5-60>	LDAP server timeout for authentication. Number range from=5 to=60
--------	---

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)# timeout <NUMBER>
```

timeout <0-60>

Description: RADIUS server timeout for authentication

Syntax:

<0-60>	RADIUS server timeout for authentication
--------	--

Command Mode: radius-server host : RADIUS server's DNS name or its IP address

Command Path:

```
# configure [['terminal', 't']]
(config)# radius-server host <A.B.C.D|A:B::C:D|WORD>
(config-host)# timeout <0-60>
```

timeout <NUMBER>

Description: TACACS server timeout for authentication

Syntax:

<0-60>	TACACS server timeout for authentication. Number range from=0 to=60
--------	---

Command Mode: tacacs-server host : TACACS+ server's DNS name or its IP address

Command Path:

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

timers

timers bgp <NUMBER> <NUMBER>

Description: Set BGP Policy Timers

Syntax:

bgp	Set BGP Policy Timers
<0-3600>	Keep-Alive Timer Value in Seconds. Number range from=0 to=3600
<0-3600>	Hold Timer Value in Seconds. Number range from=0 to=3600

Command Mode: template bgp timers : Configure Router BGP Timer Policy Templates

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template bgp timers <WORD> tenant <WORD>
(config-bgp-timers)# timers bgp <NUMBER> <NUMBER>
```

timers active-time <NUMBER>

Description: Set EIGRP Timers

Syntax:

active-time	Active timer interval
<1-65535>	Active timer interval value in minutes. Number range from=1 to=65535

Command Mode: template eigrp vrf-policy : Configure EIGRP VRF policy templates

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template eigrp vrf-policy <WORD> tenant <WORD>
(config-template-eigrp-vrf-pol)# timers active-time <NUMBER>
```

timers active-time <NUMBER>

Description: Set EIGRP Timers

Syntax:

active-time	Active timer interval
<1-65535>	Active timer interval value in minutes. Number range from=1 to=65535

Command Mode: address-family : EIGRP Policy Address Family

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# router eigrp default
(config-eigrp)# vrf member tenant <WORD> vrf <WORD>
(config-eigrp-vrf)# address-family ipv4|ipv6 unicast
(config-address-family)# timers active-time <NUMBER>
```

timers lsa-arrival

timers lsa-arrival <NUMBER>

Description: Set the minimum interval between the arrival of each link-state advertisement(LSA)

Syntax:

<10-600000>	Interval in milliseconds. Number range from=10 to=600000
-------------	--

Command Mode: template ospf vrf-policy : Configure Router OSPF Timer Policy Templates

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template ospf vrf-policy <WORD> tenant <WORD>
(config-vrf-policy)# timers lsa-arrival <NUMBER>
```

timers lsa-group-pacing

timers lsa-group-pacing <NUMBER>

Description: Set the interval in which LSAs are grouped and refreshed, checksummed, or aged

Syntax:

<1-1800>	Interval in seconds. Number range from=1 to=1800
----------	--

Command Mode: template ospf vrf-policy : Configure Router OSPF Timer Policy Templates

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template ospf vrf-policy <WORD> tenant <WORD>
(config-vrf-policy)# timers lsa-group-pacing <NUMBER>
```

timers throttle lsa

timers throttle lsa <NUMBER> <NUMBER> <NUMBER>

Description: Set the start-interval, hold-interval, max-interval for LSA

Syntax:

<start-time 0-5000>	The generation throttle start-wait interval between LSAs.. Number range from=0 to=5000
<hold-interval 50-30000>	The incremental time (in milliseconds) used to calculate the subsequent rate limiting times for LSA generation.. Number range from=50 to=30000
<max-time 50-30000>	The generation throttle maximum interval between LSAs.. Number range from=50 to=30000

Command Mode: template ospf vrf-policy : Configure Router OSPF Timer Policy Templates

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template ospf vrf-policy <WORD> tenant <WORD>
(config-vrf-policy)# timers throttle lsa <NUMBER> <NUMBER> <NUMBER>
```

timers throttle spf

timers throttle spf <NUMBER> <NUMBER> <NUMBER>

Description: Set the SPF init-interval, hold-interval, max-interval for LSA

Syntax:

<spf-start 1-600000>	The initial delay interval for the SPF schedule.. Number range from=1 to=600000
<spf-hold 1-600000>	The minimum hold time between SPF calculations.. Number range from=1 to=600000
<spf-max-wait 1-600000>	The maximum interval between SPF calculations. Each interval after the initial calculation is twice as long as the previous one until the wait interval reaches the maximum wait time specified.. Number range from=1 to=600000

Command Mode: template ospf vrf-policy : Configure Router OSPF Timer Policy Templates

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template ospf vrf-policy <WORD> tenant <WORD>
(config-vrf-policy)# timers throttle spf <NUMBER> <NUMBER> <NUMBER>
```

tp

tp <WORD>

Description: Set third-party certificate from trusted source/point for device identity

Syntax:

<WORD>	third-party certificate (Max Size 16)
--------	---------------------------------------

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

Command Path:

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

transmit-delay

transmit-delay <NUMBER>

Description: Set the delay time needed to send an LSA update packet.

Syntax:

<1-450>	Delay in seconds. Number range from=1 to=450
---------	--

Command Mode: template ospf interface-policy : Configure OSPF Interface Policy Templates

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template ospf interface-policy <WORD> tenant <WORD>
(config-interface-policy)# transmit-delay <NUMBER>
```

transport email from

transport email from <WORD>

Description: The contact e-mail address

Syntax:

<i>WORD</i>	The e-mail address (Max Size None)
-------------	------------------------------------

Command Mode: destination-profile : Configure destination profile Parameters

Command Path:

```
# configure [['terminal', 't']]
(config)# callhome common
(config-callhome)# destination-profile
(config-callhome-destnprof)# transport email from <WORD>
```


transport email mail-server

transport email mail-server <host/ipaddr> [port <port>] [mgmtepg <mgmtepg>]

Description: configure SMTP server

Syntax:

<i><host/ipaddr></i>	The hostname or ipaddress of the destination
<i>port</i>	(Optional) Port Number. Number range from=1 to=633535
<i>mgmtepg</i>	(Optional) mgmtepg

Command Mode: destination-profile : Configure destination profile Parameters

Command Path:

```
# configure [['terminal', 't']]
(config)# callhome common
(config-callhome)# destination-profile
(config-callhome-destnprof)# transport email mail-server <host/ipaddr> [port <port>] [mgmtepg
<mgmtepg>]
```

transport email reply-to

transport email reply-to <WORD>

Description: The contact e-mail address

Syntax:

<i>WORD</i>	Reply-To e-mail address (Max Size None)
-------------	---

Command Mode: destination-profile : Configure destination profile Parameters

Command Path:

```
# configure [['terminal', 't']]
(config)# callhome common
(config-callhome)# destination-profile
(config-callhome-destnprof)# transport email reply-to <WORD>
```

trigger fabric-recovery

trigger fabric-recovery <NUMBER> <WORD>

Description: Trigger fabric recovery

Syntax:

<i><cluster-size></i>	Size of the cluster. Number range from=1 to=16
<i>WORD</i>	Snapshot import configuration name

Command Mode: exec : Exec Mode

Command Path:

```
# trigger fabric-recovery <NUMBER> <WORD>
```

trigger shutdown

trigger shutdown controller <NUMBER>

Description: Shutdown controller

Syntax:

controller	Shutdown controller
<1-32>	Controller id. Number range from=1 to=32

Command Mode: exec : Exec Mode

Command Path:

```
# trigger shutdown controller <NUMBER>
```

trigger snapshot download

trigger snapshot download <WORD>

Description: Trigger command for snapshot download

Syntax:

<i>WORD</i>	Snapshot download configuration name
-------------	--------------------------------------

Command Mode: exec : Exec Mode

Command Path:

```
# trigger snapshot download <WORD>
```

trigger snapshot export

trigger snapshot export <WORD>

Description: Trigger command for snapshot export

Syntax:

<i>WORD</i>	Snapshot export configuration name
-------------	------------------------------------

Command Mode: exec : Exec Mode

Command Path:

```
# trigger snapshot export <WORD>
```

trigger snapshot import

trigger snapshot import <WORD>

Description: Trigger command for snapshot import

Syntax:

<i>WORD</i>	Snapshot import configuration name
-------------	------------------------------------

Command Mode: exec : Exec Mode

Command Path:

```
# trigger snapshot import <WORD>
```

trigger snapshot rollback

trigger snapshot rollback <WORD>

Description: Trigger command for snapshot rollback

Syntax:

<i>WORD</i>	Snapshot rollback configuration name
-------------	--------------------------------------

Command Mode: exec : Exec Mode

Command Path:

```
# trigger snapshot rollback <WORD>
```


trigger snapshot upload

trigger snapshot upload <WORD>

Description: Trigger command for snapshot upload

Syntax:

<i>WORD</i>	Snapshot upload configuration name
-------------	------------------------------------

Command Mode: exec : Exec Mode

Command Path:

```
# trigger snapshot upload <WORD>
```

trigger techsupport all

trigger techsupport all [remotename <remote-path>]

Description: Trigger techsupport for controllers and switches

Syntax:

<i>remote-path</i>	(Optional) remote-path
--------------------	------------------------

Command Mode: exec : Exec Mode

Command Path:

```
# trigger techsupport all [remotename <remote-path>]
```

trigger techsupport controllers

trigger techsupport controllers [remotename <remote-path>]

Description: Trigger techsupport for a controllers

Syntax:

<i>remote-path</i>	(Optional) remote-path
--------------------	------------------------

Command Mode: exec : Exec Mode

Command Path:

```
# trigger techsupport controllers [remotename <remote-path>]
```

trigger techsupport host

trigger techsupport host <NUMBER> remotename <remote-file-name> [node <leaf-node-id>]

Description: Trigger techsupport for a host

Syntax:

<Odevid>	Specify the host Odev ID. Number range from=0 to=9223372036854775807
remotename	Specify the file remote path name
<remote-file-name>	Remote path file name
<leaf-node-id>	(Optional) Specify the leaf node id

Command Mode: exec : Exec Mode

Command Path:

```
# trigger techsupport host <NUMBER> remotename <remote-file-name> [node <leaf-node-id>]
```

trigger techsupport local

trigger techsupport local

Description: Trigger techsupport for a local

Command Mode: exec : Exec Mode

Command Path:

```
# trigger techsupport local
```

trigger techsupport switch

trigger techsupport switch switchId <switchId> [remotename <remote-path>]

Description: Trigger techsupport for a switch

Syntax:

<i>switchId</i> < <i>switchId</i> >	switch id 101-4000 or range(s): 101-103,104
<i>remote-path</i>	(Optional) remote-path

Command Mode: exec : Exec Mode

Command Path:

```
# trigger techsupport switch switchId <switchId> [remotename <remote-path>]
```

trigger troubleshoot epxt session report

trigger troubleshoot epxt session <session_name> report [format <format>]

Description: Trigger a report generation for a troubleshoot session

Syntax:

<i>session</i>	session
<i>session_name</i>	Session name
<i>format</i>	(Optional) Report format

Command Mode: exec : Exec Mode

Command Path:

```
# trigger troubleshoot epxt session <session_name> report [format <format>]
```

trigger troubleshoot eptoe session report

trigger troubleshoot eptoe session <session_name> report [format <format>]

Description: Trigger a report generation for a troubleshoot session

Syntax:

<code>session</code>	session
<code>session_name</code>	Session name
<code>format</code>	(Optional) Report format

Command Mode: exec : Exec Mode

Command Path:

```
# trigger troubleshoot eptoe session <session_name> report [format <format>]
```


trigger vmware

trigger vmware domain <name> vcenter <hostname|IP> pull-inventory

Description: Trigger VMware vCenter inventory pull

Syntax:

domain	VMware domain
<name>	VMM VMware Domain name
vcenter	VMware vCenter
<hostname IP>	vCenter hostname or IP
pull-inventory	Pull inventory

Command Mode: exec : Exec Mode

Command Path:

```
# trigger vmware domain <name> vcenter <hostname|IP> pull-inventory
```

troubleshoot epxt session atomiccounter

troubleshoot epxt session <session_name> atomiccounter

Description: Start atomic counter of a troubleshoot session

Syntax:

session	session
<i>session_name</i>	session name

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# troubleshoot epxt session <session_name> atomiccounter
```

Usage Note:

The usage of the **troubleshoot epxt session** commands and the **troubleshoot eptoep session** commands differs in the following way:

- Use the **troubleshoot epxt session** command when one endpoint is local to the fabric and the other endpoint is external to the fabric.
- Use the **troubleshoot eptoep session** command when both endpoints are local to the fabric.

troubleshoot epext session description

troubleshoot epext session <session_name> description <LINE>

Description: Set the description of a troubleshoot session

Syntax:

<i>session</i>	session
<i>session_name</i>	session name
<i>LINE</i>	Session description, use single quotes with spaces ex: 'my descr' (Max Size 128)

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# troubleshoot epext session <session_name> description <LINE>
```

troubleshoot epext session latestminutes

troubleshoot epext session <session_name> latestminutes <minutes>

Description: Set the time window in number of minutes from current time

Syntax:

<i>session</i>	session
<i>session_name</i>	session name
<i>minutes</i>	number of minutes from current time. Number range from=5 to=1440

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# troubleshoot epext session <session_name> latestminutes <minutes>
```

Usage Note:

The usage of the **troubleshoot epext session** commands and the **troubleshoot eptoe session** commands differs in the following way:

- Use the **troubleshoot epext session** command when one endpoint is local to the fabric and the other endpoint is external to the fabric.
- Use the **troubleshoot eptoe session** command when both endpoints are local to the fabric.

troubleshoot epext session monitor destination apic

troubleshoot epext session <session_name> monitor destination apic srcipprefix <sip/m> [analyser <aip>] [erspan-id <id>] [spansrcports <pathep-list>]

Description: Configure this APIC as monitor destination

Syntax:

session	session
<i>session_name</i>	session name
destination	destinaton
srcipprefix	srcipprefix
<i>sip/m</i>	Source IP address and subnet mask length
<i>aip</i>	(Optional) IP address of the host analyser
<i>id</i>	(Optional) erspan Id. Number range from=1 to=1023
<i>pathep-list</i>	(Optional) List of source fabricPathEp dn

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# troubleshoot epext session <session_name> monitor destination apic srcipprefix
<sip/m> [analyser <aip>] [erspan-id <id>] [spansrcports <pathep-list>]
```

Usage Note:

The usage of the **troubleshoot epext session** commands and the **troubleshoot eptoep session** commands differs in the following way:

- Use the **troubleshoot epext session** command when one endpoint is local to the fabric and the other endpoint is external to the fabric.
- Use the **troubleshoot eptoep session** command when both endpoints are local to the fabric.

troubleshoot epext session monitor destination prefdestgroup

troubleshoot epext session <session_name> **monitor destination prefdestgroup** <destgroup_name> [spansrcports <pathep-list>]

Description: Configure a predefined monitor destination

Syntax:

session	session
<i>session_name</i>	session name
destination	destinaton
<i>destgroup_name</i>	Destination group name
<i>pathep-list</i>	(Optional) List of source fabricPathEp dn

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# troubleshoot epext session <session_name> monitor destination prefdestgroup
<destgroup_name> [spansrcports <pathep-list>]
```

Usage Note:

The usage of the **troubleshoot epext session** commands and the **troubleshoot eptoe session** commands differs in the following way:

- Use the **troubleshoot epext session** command when one endpoint is local to the fabric and the other endpoint is external to the fabric.
- Use the **troubleshoot eptoe session** command when both endpoints are local to the fabric.

troubleshoot epext session monitor destination tenant

troubleshoot epext session <session_name> **monitor destination tenant** <tn_name> **application** <ap_name> **epg** <epg_name> **destip** <dip> **srcipprefix** <sip/m> [**erspan-id** <id>] [**spansrcports** <pathep-list>]

Description: Configure tenant EPG as monitor destination

Syntax:

session	session
<i>session_name</i>	session name
destination	destinaton
<i>tn_name</i>	tenant name
application	application
<i>ap_name</i>	application name
epg	epg
<i>epg_name</i>	epg name
destip	destip
<i>dip</i>	destination IP address
srcipprefix	srcipprefix
<i>sip/m</i>	source IP address and subnet mask length
<i>id</i>	(Optional) erspan Id. Number range from=1 to=1023
<i>pathep-list</i>	(Optional) List of source fabricPathEp dn

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# troubleshoot epext session <session_name> monitor destination tenant <tn_name>
application <ap_name> epg <epg_name> destip <dip> srcipprefix <sip/m> [erspan-id <id>]
[spansrcports <pathep-list>]
```

Usage Note:

The usage of the **troubleshoot epext session** commands and the **troubleshoot eptoe session** commands differs in the following way:

- Use the **troubleshoot epext session** command when one endpoint is local to the fabric and the other endpoint is external to the fabric.
- Use the **troubleshoot eptoe session** command when both endpoints are local to the fabric.

troubleshoot epext session scheduler

troubleshoot epext session <session_name> scheduler <sch_name> [format <format>]

Description: Associate a scheduler to the troubleshoot session

Syntax:

<i>session</i>	session
<i>session_name</i>	session name
<i>sch_name</i>	scheduler name
<i>format</i>	(Optional) Reoport format

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# troubleshoot epext session <session_name> scheduler <sch_name> [format <format>]
```

Usage Note:

The usage of the **troubleshoot epext session** commands and the **troubleshoot eptoe session** commands differs in the following way:

- Use the **troubleshoot epext session** command when one endpoint is local to the fabric and the other endpoint is external to the fabric.
- Use the **troubleshoot eptoe session** command when both endpoints are local to the fabric.

troubleshoot epext session srcextip destip tenant application

troubleshoot epext session <session_name> srcextip <sip> destip <dip> tenant <dtenant_name> application <dapp_name> epg <depg_name>

Description: application

Syntax:

session	session
<i>session_name</i>	session name
<i>sip</i>	external source IP
destip	destip
<i>dip</i>	destination IP
tenant	tenant
<i>dtenant_name</i>	destination Tenant
<i>dapp_name</i>	destination Application
epg	epg
<i>depg_name</i>	destination EPG

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# troubleshoot epext session <session_name> srcextip <sip> destip <dip> tenant
<dtenant_name> application <dapp_name> epg <depg_name>
```

troubleshoot epext session srcextip destip tenant vrf

troubleshoot epext session <session_name> srcextip <sip> destip <dip> tenant <dtenant_name> vrf <dvrif_name>

Description: vrf

Syntax:

session	session
<i>session_name</i>	session name
<i>sip</i>	external source IP
destip	destip
<i>dip</i>	destination IP
tenant	tenant
<i>dtenant_name</i>	destination Tenant
<i>dvrif_name</i>	destination VRF

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# troubleshoot epext session <session_name> srcextip <sip> destip <dip> tenant
<dtenant_name> vrf <dvrif_name>
```

troubleshoot epext session srcip tenant application epg destextip

troubleshoot epext session <session_name> srcip <sip> tenant <stenant_name> application <sapp_name> epg <sepg_name> destextip <dip>

Description: External IP

Syntax:

session	session
<i>session_name</i>	session name
<i>sip</i>	source IP
tenant	tenant
<i>stenant_name</i>	source Tenant
<i>sapp_name</i>	source Application
epg	epg
<i>sepg_name</i>	source EPG
<i>dip</i>	external destination IP

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# troubleshoot epext session <session_name> srcip <sip> tenant <stenant_name>
application <sapp_name> epg <sepg_name> destextip <dip>
```

troubleshoot epext session srcip tenant vrf destextip

troubleshoot epext session <session_name> srcip <sip> tenant <stenant_name> vrf <svrf_name> destextip <dip>

Description: external IP

Syntax:

session	session
<i>session_name</i>	session name
<i>sip</i>	source IP
tenant	tenant
<i>stenant_name</i>	source Tenant
<i>svrf_name</i>	source VRF
<i>dip</i>	external destination IP

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# troubleshoot epext session <session_name> srcip <sip> tenant <stenant_name> vrf
<svrf_name> destextip <dip>
```

troubleshoot epext session starttime

troubleshoot epext session <session_name> starttime <start_time> endtime <end_time>

Description: Configure the start/end time of the session

Syntax:

session	session
<i>session_name</i>	session name
<i>start_time</i>	Start time (in YYYY-MM-DDTHH:MM:SS format)
endtime	end time
<i>end_time</i>	End time (in YYYY-MM-DDTHH:MM:SS format)

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# troubleshoot epext session <session_name> starttime <start_time> endtime <end_time>
```

Usage Note:

The usage of the **troubleshoot epext session** commands and the **troubleshoot eptoe session** commands differs in the following way:

- Use the **troubleshoot epext session** command when one endpoint is local to the fabric and the other endpoint is external to the fabric.
- Use the **troubleshoot eptoe session** command when both endpoints are local to the fabric.

troubleshoot epext session traceroute

troubleshoot epext session <session_name> traceroute

Description: Start traceroute of a troubleshoot session

Syntax:

<code>session</code>	session
<code>session_name</code>	session name

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# troubleshoot epext session <session_name> traceroute
```

Usage Note:

The usage of the **troubleshoot epext session** commands and the **troubleshoot eptoe session** commands differs in the following way:

- Use the **troubleshoot epext session** command when one endpoint is local to the fabric and the other endpoint is external to the fabric.
- Use the **troubleshoot eptoe session** command when both endpoints are local to the fabric.

troubleshoot epxt session traceroute protocol icmp

troubleshoot epxt session <session_name> traceroute protocol icmp

Description: ICMP protocol

Syntax:

session	session
<i>session_name</i>	session name

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# troubleshoot epxt session <session_name> traceroute protocol icmp
```

Usage Note:

The usage of the **troubleshoot epxt session** commands and the **troubleshoot eptoep session** commands differs in the following way:

- Use the **troubleshoot epxt session** command when one endpoint is local to the fabric and the other endpoint is external to the fabric.
- Use the **troubleshoot eptoep session** command when both endpoints are local to the fabric.

troubleshoot epxt session traceroute protocol tcp

troubleshoot epxt session <session_name> traceroute protocol tcp [destport <port>]

Description: TCP protocol

Syntax:

<i>session</i>	session
<i>session_name</i>	session name
<i>port</i>	(Optional) TCP destination port number. Number range from=0 to=65535

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# troubleshoot epxt session <session_name> traceroute protocol tcp [destport <port>]
```

Usage Note:

The usage of the **troubleshoot epxt session** commands and the **troubleshoot eptoep session** commands differs in the following way:

- Use the **troubleshoot epxt session** command when one endpoint is local to the fabric and the other endpoint is external to the fabric.
- Use the **troubleshoot eptoep session** command when both endpoints are local to the fabric.

troubleshoot epxt session traceroute protocol udp

troubleshoot epxt session <session_name> traceroute protocol udp [destport <port>]

Description: UDP protocol

Syntax:

<i>session</i>	session
<i>session_name</i>	session name
<i>port</i>	(Optional) UDP destination port number. Number range from=0 to=65535

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# troubleshoot epxt session <session_name> traceroute protocol udp [destport <port>]
```

Usage Note:

The usage of the **troubleshoot epxt session** commands and the **troubleshoot eptoep session** commands differs in the following way:

- Use the **troubleshoot epxt session** command when one endpoint is local to the fabric and the other endpoint is external to the fabric.
- Use the **troubleshoot eptoep session** command when both endpoints are local to the fabric.

troubleshoot eptoe session atomiccounter

troubleshoot eptoe session <session_name> atomiccounter

Description: Start atomic counter of a troubleshoot session

Syntax:

<i>session</i>	session
<i>session_name</i>	session name

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# troubleshoot eptoe session <session_name> atomiccounter
```

Usage Note:

The usage of the **troubleshoot eptoe session** commands and the **troubleshoot eptext session** commands differs in the following way:

- Use the **troubleshoot eptext session** command when one endpoint is local to the fabric and the other endpoint is external to the fabric.
- Use the **troubleshoot eptoe session** command when both endpoints are local to the fabric.

troubleshoot eptoep session description

troubleshoot eptoep session <session_name> description <LINE>

Description: Set the description of a troubleshoot session

Syntax:

session	session
<i>session_name</i>	session name
<i>LINE</i>	Session description, use single quotes with spaces ex: 'my descr' (Max Size 128)

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# troubleshoot eptoep session <session_name> description <LINE>
```

Usage Note:

The usage of the **troubleshoot epext session** commands and the **troubleshoot eptoep session** commands differs in the following way:

- Use the **troubleshoot epext session** command when one endpoint is local to the fabric and the other endpoint is external to the fabric.
- Use the **troubleshoot eptoep session** command when both endpoints are local to the fabric.

troubleshoot eptoep session latestminutes

troubleshoot eptoep session <session_name> latestminutes <minutes>

Description: Set the time window in number of minutes from current time

Syntax:

<i>session</i>	session
<i>session_name</i>	session name
<i>minutes</i>	number of minutes from current time. Number range from=5 to=1440

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# troubleshoot eptoep session <session_name> latestminutes <minutes>
```

Usage Note:

The usage of the **troubleshoot epxt session** commands and the **troubleshoot eptoep session** commands differs in the following way:

- Use the **troubleshoot epxt session** command when one endpoint is local to the fabric and the other endpoint is external to the fabric.
- Use the **troubleshoot eptoep session** command when both endpoints are local to the fabric.

troubleshoot eptoe session monitor destination apic

troubleshoot eptoe session <session_name> monitor destination apic srcipprefix <sip/m> [analyser <aip>] [erspan-id <id>] [spansrcports <pathep-list>]

Description: Configure this APIC as monitor destination

Syntax:

session	session
<i>session_name</i>	session name
destination	destinaton
srcipprefix	srcipprefix
<i>sip/m</i>	Source IP address and subnet mask length
<i>aip</i>	(Optional) IP address of the host analyser
<i>id</i>	(Optional) erspan Id. Number range from=1 to=1023
<i>pathep-list</i>	(Optional) List of source fabricPathEp dn

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# troubleshoot eptoe session <session_name> monitor destination apic srcipprefix
<sip/m> [analyser <aip>] [erspan-id <id>] [spansrcports <pathep-list>]
```

Usage Note:

The usage of the **troubleshoot eptoe session** commands and the **troubleshoot eptoe session** commands differs in the following way:

- Use the **troubleshoot eptoe session** command when one endpoint is local to the fabric and the other endpoint is external to the fabric.
- Use the **troubleshoot eptoe session** command when both endpoints are local to the fabric.

troubleshoot eptoep session monitor destination predestgroup

troubleshoot eptoep session <session_name> monitor destination predestgroup <destgroup_name> [spansrcports <pathep-list>]

Description: Configure a predefined monitor destination

Syntax:

session	session
<i>session_name</i>	session name
destination	destinaton
<i>destgroup_name</i>	Destination group name
<i>pathep-list</i>	(Optional) List of source fabricPathEp dn

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# troubleshoot eptoep session <session_name> monitor destination predestgroup
<destgroup_name> [spansrcports <pathep-list>]
```

Usage Note:

The usage of the **troubleshoot epext session** commands and the **troubleshoot eptoep session** commands differs in the following way:

- Use the **troubleshoot epext session** command when one endpoint is local to the fabric and the other endpoint is external to the fabric.
- Use the **troubleshoot eptoep session** command when both endpoints are local to the fabric.

troubleshoot eptoe session monitor destination tenant

troubleshoot eptoe session <session_name> **monitor destination tenant** <tn_name> **application** <ap_name> **epg** <epg_name> **destip** <dip> **srcipprefix** <sip/m> [**erspan-id** <id>] [**spansrcports** <pathep-list>]

Description: Configure tenant EPG as monitor destination

Syntax:

session	session
<i>session_name</i>	session name
destination	destinaton
<i>tn_name</i>	tenant name
application	application
<i>ap_name</i>	application name
epg	epg
<i>epg_name</i>	epg name
destip	destip
<i>dip</i>	destination IP address
srcipprefix	srcipprefix
<i>sip/m</i>	source IP address and subnet mask lenght
<i>id</i>	(Optional) erspan Id. Number range from=1 to=1023
<i>pathep-list</i>	(Optional) List of source fabricPathEp dn

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# troubleshoot eptoe session <session_name> monitor destination tenant <tn_name>
application <ap_name> epg <epg_name> destip <dip> srcipprefix <sip/m> [erspan-id <id>]
[spansrcports <pathep-list>]
```

Usage Note:

The usage of the **troubleshoot eptoe session** commands and the **troubleshoot eptoe session** commands differs in the following way:

- Use the **troubleshoot epext session** command when one endpoint is local to the fabric and the other endpoint is external to the fabric.
- Use the **troubleshoot eptoe session** command when both endpoints are local to the fabric.

troubleshoot eptoep session scheduler

troubleshoot eptoep session <session_name> scheduler <sch_name> [format <format>]

Description: Associate a scheduler to the troubleshoot session

Syntax:

<i>session</i>	session
<i>session_name</i>	session name
<i>sch_name</i>	scheduler name
<i>format</i>	(Optional) Report format

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# troubleshoot eptoep session <session_name> scheduler <sch_name> [format <format>]
```

Usage Note:

The usage of the **troubleshoot epext session** commands and the **troubleshoot eptoep session** commands differs in the following way:

- Use the **troubleshoot epext session** command when one endpoint is local to the fabric and the other endpoint is external to the fabric.
- Use the **troubleshoot eptoep session** command when both endpoints are local to the fabric.

troubleshoot eptoe session srcip tenant application epg destip tenant application

troubleshoot eptoe session <session_name> srcip <sip> tenant <stenant_name> application <sapp_name> epg <sepg_name> destip <dip> tenant <dtenant_name> application <dapp_name> epg <depg_name>

Description: application

Syntax:

session	session
<i>session_name</i>	session name
<i>sip</i>	source IP
tenant	tenant
<i>stenant_name</i>	source Tenant
<i>sapp_name</i>	source Application
epg	epg
<i>sepg_name</i>	source EPG
destip	destip
<i>dip</i>	destination IP
tenant	tenant
<i>dtenant_name</i>	destination Tenant
<i>dapp_name</i>	destination Application
epg	epg
<i>depg_name</i>	destination EPG

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# troubleshoot eptoe session <session_name> srcip <sip> tenant <stenant_name>
application <sapp_name> epg <sepg_name> destip <dip> tenant <dtenant_name> application
<dapp_name> epg <depg_name>
```

troubleshoot eptoe session srcip tenant application epg destip tenant vrf

troubleshoot eptoe session <session_name> srcip <srcip> tenant <stenant_name> application <sapp_name> epg <sepg_name> destip <dip> tenant <dtenant_name> vrf <dvrif_name>

Description: vrf

Syntax:

session	session
<i>session_name</i>	session name
<i>srcip</i>	source IP
tenant	tenant
<i>stenant_name</i>	source Tenant
<i>sapp_name</i>	source Application
epg	epg
<i>sepg_name</i>	source EPG
destip	destip
<i>dip</i>	destination IP
tenant	tenant
<i>dtenant_name</i>	destination Tenant
<i>dvrif_name</i>	destination VRF

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# troubleshoot eptoe session <session_name> srcip <srcip> tenant <stenant_name>
application <sapp_name> epg <sepg_name> destip <dip> tenant <dtenant_name> vrf <dvrif_name>
```

troubleshoot eptoep session srcip tenant vrf destip tenant application

troubleshoot eptoep session <session_name> srcip <sip> tenant <stenant_name> vrf <svrf_name> destip <dip> tenant <dtenant_name> application <dapp_name> epg <depg_name>

Description: application

Syntax:

session	session
<i>session_name</i>	session name
<i>sip</i>	source IP
tenant	tenant
<i>stenant_name</i>	source Tenant
<i>svrf_name</i>	source VRF
destip	destip
<i>dip</i>	destination IP
tenant	tenant
<i>dtenant_name</i>	destination Tenant
<i>dapp_name</i>	destination Application
epg	epg
<i>depg_name</i>	destination EPG

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# troubleshoot eptoep session <session_name> srcip <sip> tenant <stenant_name> vrf
<svrf_name> destip <dip> tenant <dtenant_name> application <dapp_name> epg <depg_name>
```

troubleshoot eptoe session srcip tenant vrf destip tenant vrf

troubleshoot eptoe session <session_name> srcip <sip> tenant <stenant_name> vrf <svrf_name> destip <dip> tenant <dtenant_name> vrf <WORD>

Description: vrf

Syntax:

session	session
<i>session_name</i>	session name
<i>sip</i>	source IP
tenant	tenant
<i>stenant_name</i>	source Tenant
<i>svrf_name</i>	source VRF
destip	destip
<i>dip</i>	destination IP
tenant	tenant
<i>dtenant_name</i>	destination Tenant
<i>WORD</i>	destination VRF

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# troubleshoot eptoe session <session_name> srcip <sip> tenant <stenant_name> vrf
<svrf_name> destip <dip> tenant <dtenant_name> vrf <WORD>
```

troubleshoot eptoep session srcmac tenant application epg destmac tenant application

troubleshoot eptoep session <session_name> srcmac <smac> tenant <stenant_name> application <sapp_name> epg <sepg_name> destmac <dmac> tenant <dtenant_name> application <dapp_name> epg <depg_name>

Description: application

Syntax:

session	session
<i>session_name</i>	session name
<i>smac</i>	source MAC
tenant	tenant
<i>stenant_name</i>	source Tenant
<i>sapp_name</i>	source Application
epg	epg
<i>sepg_name</i>	source EPG
destmac	destmac
<i>dmac</i>	destination MAC
tenant	tenant
<i>dtenant_name</i>	destination Tenant
<i>dapp_name</i>	destination Application
epg	epg
<i>depg_name</i>	destination EPG

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# troubleshoot eptoep session <session_name> srcmac <smac> tenant <stenant_name>
application <sapp_name> epg <sepg_name> destmac <dmac> tenant <dtenant_name> application
```

```
<dapp_name> epg <depg_name>
```


troubleshoot eptoe session srcmac tenant application epg destmac tenant vrf

troubleshoot eptoe session <session_name> srcmac <smac> tenant <stenant_name> application <sapp_name> epg <sepg_name> destmac <dmac> tenant <dtenant_name> vrf <dvrif_name>

Description: vrf

Syntax:

session	session
<i>session_name</i>	session name
<i>smac</i>	source MAC
tenant	tenant
<i>stenant_name</i>	source Tenant
<i>sapp_name</i>	source Application
epg	epg
<i>sepg_name</i>	source EPG
destmac	destmac
<i>dmac</i>	destination MAC
tenant	tenant
<i>dtenant_name</i>	destination Tenant
<i>dvrif_name</i>	destination VRF

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# troubleshoot eptoe session <session_name> srcmac <smac> tenant <stenant_name>
application <sapp_name> epg <sepg_name> destmac <dmac> tenant <dtenant_name> vrf <dvrif_name>
```

troubleshoot eptoe session srcmac tenant vrf destmac tenant application

troubleshoot eptoe session <session_name> srcmac <smac> tenant <stenant_name> vrf <svrf_name> destmac <dmac> tenant <dtenant_name> application <dapp_name> epg <depg_name>

Description: application

Syntax:

session	session
<i>session_name</i>	session name
<i>smac</i>	source MAC
tenant	tenant
<i>stenant_name</i>	source Tenant
<i>svrf_name</i>	source VRF
destmac	destmac
<i>dmac</i>	destination MAC
tenant	tenant
<i>dtenant_name</i>	destination Tenant
<i>dapp_name</i>	destination Application
epg	epg
<i>depg_name</i>	destination EPG

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# troubleshoot eptoe session <session_name> srcmac <smac> tenant <stenant_name>
vrf <svrf_name> destmac <dmac> tenant <dtenant_name> application <dapp_name> epg <depg_name>
```

troubleshoot eptoe session srcmac tenant vrf destmac tenant vrf

troubleshoot eptoe session <session_name> srcmac <smac> tenant <stenant_name> vrf <svrf_name> destmac <dmac> tenant <dtenant_name> vrf <dvrif_name>

Description: vrf

Syntax:

session	session
<i>session_name</i>	session name
<i>smac</i>	source MAC
tenant	tenant
<i>stenant_name</i>	source Tenant
<i>svrf_name</i>	source VRF
destmac	destmac
<i>dmac</i>	destination MAC
tenant	tenant
<i>dtenant_name</i>	destination Tenant
<i>dvrif_name</i>	destination VRF

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# troubleshoot eptoe session <session_name> srcmac <smac> tenant <stenant_name>
vrf <svrf_name> destmac <dmac> tenant <dtenant_name> vrf <dvrif_name>
```

troubleshoot eptoep session starttime

troubleshoot eptoep session <session_name> starttime <start_time> endtime <end_time>

Description: Configure the start/end time of the session

Syntax:

session	session
<i>session_name</i>	session name
<i>start_time</i>	Start time (in YYYY-MM-DDTHH:MM:SS format)
endtime	end time
<i>end_time</i>	End time (in YYYY-MM-DDTHH:MM:SS format)

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# troubleshoot eptoep session <session_name> starttime <start_time> endtime <end_time>
```

Usage Note:

The usage of the **troubleshoot epext session** commands and the **troubleshoot eptoep session** commands differs in the following way:

- Use the **troubleshoot epext session** command when one endpoint is local to the fabric and the other endpoint is external to the fabric.
- Use the **troubleshoot eptoep session** command when both endpoints are local to the fabric.

troubleshoot eptoe session traceroute

troubleshoot eptoe session <session_name> traceroute

Description: Start traceroute of a troubleshoot session

Syntax:

<code>session</code>	session
<code>session_name</code>	session name

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# troubleshoot eptoe session <session_name> traceroute
```

Usage Note:

The usage of the **troubleshoot epext session** commands and the **troubleshoot eptoe session** commands differs in the following way:

- Use the **troubleshoot epext session** command when one endpoint is local to the fabric and the other endpoint is external to the fabric.
- Use the **troubleshoot eptoe session** command when both endpoints are local to the fabric.

troubleshoot eptoep session traceroute protocol icmp

troubleshoot eptoep session <session_name> traceroute protocol icmp

Description: ICMP protocol

Syntax:

<code>session</code>	session
<code>session_name</code>	session name

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# troubleshoot eptoep session <session_name> traceroute protocol icmp
```

Usage Note:

The usage of the **troubleshoot epext session** commands and the **troubleshoot eptoep session** commands differs in the following way:

- Use the **troubleshoot epext session** command when one endpoint is local to the fabric and the other endpoint is external to the fabric.
- Use the **troubleshoot eptoep session** command when both endpoints are local to the fabric.

troubleshoot eptoep session traceroute protocol tcp

troubleshoot eptoep session <session_name> traceroute protocol tcp [destport <port>]

Description: TCP protocol

Syntax:

<i>session</i>	session
<i>session_name</i>	session name
<i>port</i>	(Optional) TCP destination port number. Number range from=0 to=65535

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# troubleshoot eptoep session <session_name> traceroute protocol tcp [destport
<port>]
```

Usage Note:

The usage of the **troubleshoot epext session** commands and the **troubleshoot eptoep session** commands differs in the following way:

- Use the **troubleshoot epext session** command when one endpoint is local to the fabric and the other endpoint is external to the fabric.
- Use the **troubleshoot eptoep session** command when both endpoints are local to the fabric.

troubleshoot eptoe session traceroute protocol udp

troubleshoot eptoe session <session_name> traceroute protocol udp [destport <port>]

Description: UDP protocol

Syntax:

<i>session</i>	session
<i>session_name</i>	session name
<i>port</i>	(Optional) UDP destination port number. Number range from=0 to=65535

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# troubleshoot eptoe session <session_name> traceroute protocol udp [destport
<port>]
```

Usage Note:

The usage of the **troubleshoot epext session** commands and the **troubleshoot eptoe session** commands differs in the following way:

- Use the **troubleshoot epext session** command when one endpoint is local to the fabric and the other endpoint is external to the fabric.
- Use the **troubleshoot eptoe session** command when both endpoints are local to the fabric.

trusted-key

trusted-key <id>

Description: Configure trusted for ntp authentication key


Syntax:

<i>id</i>	Id for the trusted key. Number range from=1 to=65535
-----------	--

Command Mode: ntp : Configure the default ntp policy

Command Path:

```
# configure [['terminal', 't']]
(config)# pod 1
(config-pod)# ntp
(config-ntp)# trusted-key <id>
```

 trusted-key