

EVPN Commands

This section describes the commands used to configure Ethernet VPN (EVPN) services for Layer 2 VPNs.

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advertise-mac

To advertise local MAC to the peers, use **advertise-mac** command in the EVPN configuration mode. The local MAC is advertised to the peer in control plane using BGP.

advertise-mac

Syntax Description

This command has no keywords or arguments.

Command Default

None

Command Modes

EVPN

Command History

Release	Modification
Release 7.11.1	This command was introduced.

Usage Guidelines

No specific guidelines impact the use of this command.

The following example shows how to advertise local MAC.

```
Router(config)# evpn
Router(config-evpn)# interface Bundle-Ether 1
Router(config-evpn-ac)# exit
Router(config-evpn)# evi 2001
Router(config-evpn-instance)# advertise-mac
Router(config-evpn-instance-mac)# commit
```

convergence reroute

To enable the switchover of a failed primary link from one PE device to another by redirecting the unicast traffic to backup peer , use the **convergence reroute** command in the EVPN interface Ethernet segment configuration mode.

convergence reroute

Syntax Description

This command has no keywords or arguments.

Command Default

None

Command Modes

EVPN interface Ethernet segment configuration mode

Command History

Release	Modification
Release 24.3.1	This command was introduced.

Usage Guidelines

No specific guidelines impact the use of this command.

Task ID

Task ID	Operation
l2vpn	read, write

Example

This example shows how to redirect the unicast traffic to backup peer.

```
Router(config)# evpn
Router(config-evpn)# interface Bundle-Ether1
Router(config-evpn-ac)# ethernet-segment
Router(config-evpn-ac-es)# identifier type 0 00.00.00.00.00.00.05.01.02
Router(config-evpn-ac-es)# convergence reroute
```

core-isolation-group

To configure EVPN core isolation group after the core interfaces fail, use the **core-isolation-group** command in the EVPN Timers configuration mode.

core-isolation-group *group-id*

Syntax Description

group-id	Specifies the core isolation group ID. The range is from 1 to 4294967295.

Command Default

None.

Command Modes

EVPN configuration mode

Command History

Release	Modification
Release 7.11.1	This command was introduced.

Usage Guidelines

No specific guidelines impact the use of this command.

Example

This example shows how to configure the EVPN core isolation group.

```
Router# configure
Router(config-evpn)# interface bundle-Ether 43001
Router(config-evpn-ac)# core-isolation-group 43001
Router(config-evpn-ac)# commit
```

decoupled-mode

To enable decoupled mode in the L2VPN and EVPN VPWS, use the **decoupled-mode** command in L2VPN configuration mode. This mode keeps the Pseudowire (PW) active even when the Attachment Circuit (AC) is down due to any failure.

decoupled-mode

Syntax Description

This command has no keywords or arguments.

Command Default

None

Command Modes

L2VPN configuration mode

Command History

Release	Modification
Release 25.2.1	This command was introduced.

Usage Guidelines

No specific guidelines impact the use of this command.

Task ID

Task ID	Operation
l2vpn	read, write

Examples

The following example shows how to enable decoupled mode in the L2VPN and EVPN VPWS on a Provider Edge (PE) router.

```
Router# configure
Router(config)# l2vpn xconnect group g1
Router(config-l2vpn-xc)# p2p xc1
Router(config-l2vpn-xc-p2p)# decoupled-mode
Router(config-l2vpn-xc-p2p)# interface Gi0/0/0/0.3
Router(config-l2vpn-xc-p2p)# neighbor evpn evi 1 service-id 10011
```

ethernet-segment

To enter the EVPN interface ethernet segment configuration mode, use the **ethernet-segment** command in the EVPN interface configuration mode. To disable the Ethernet segment configuration, use the **no** form of this command.

ethernet-segment [**backbone-source-mac** | **identifier** | **load-balancing-mode** | **service-carving**]
no ethernet-segment [**backbone-source-mac** | **identifier** | **load-balancing-mode** | **service-carving**]

Syntax Description

backbone-source-mac	Specifies Backbone Source MAC.
identifier	Specifies Ethernet Segment Identifier.
load-balancing-mode	Specifies load balancing mode.
service-carving	Specifies service carving.

Command Default

None.

Command Modes

EVPN interface configuration

Command History

Release	Modification
Release 7.11.1	This command was introduced.

Usage Guidelines

No specific guidelines impact the use of this command.

Task ID

Task ID	Operation
l2vpn	read, write

This example shows how to enter the EVPN interface ethernet segment configuration mode:

```
Router# configure
Router(config)# evpn
Router(config-evpn)# interface bundle-ether 1
Router(config-evpn-ac)# ethernet-segment
Router(config-evpn-ac-es)#
```

etree rt-leaf

To enable EVPN instance as EVPN E-Tree leaf site using BGP Route Target (RT) import and export policies, use the **etree rt-leaf** command in the EVPN EVI configuration submode.

etree rt-leaf

Syntax Description

This command has no keywords or arguments.

Command Default

None.

Command Modes

EVI configuration submode

Command History

Release	Modification
Release 7.11.1	This command was introduced.

Usage Guidelines

No specific guidelines impact the use of this command.

Task ID

Task ID	Operation
l2vpn	read, write

Example

This example shows how to designate EVPN instance as EVPN E-Tree Route-Target leaf site.

```
Router(config)# evpn
Router(config-evpn)# evi 15
Router(config-evpn-instance)# etree
Router(config-evpn-instance-etree)# rt-leaf
```

evpn evi

To enter the EVPN EVI configuration mode and configure BGP settings for a bridge domain or EVI, use the **evi** command in the EVPN configuration mode.

evi *evi-id*

Syntax Description

evi-id	Specifies the Ethernet VPN ID to set. Before Release 25.2.1, The range is from 1 to 65534. From Release 25.2.1, The range is from 1 to 16777215.

Command Default

None.

Command Modes

EVPN configuration mode

Command History

Release	Modification
Release 25.2.1	Extending the Ethernet VPN ID range to 16777215.
Release 7.11.1	This command was introduced.

Usage Guidelines

Use this command to configure static BGP route distinguisher or BGP route target for an EVI.

Task ID

Task ID	Operation
l2vpn	read, write

Example

This example shows how to enter the EVPN EVI configuration mode:

```
Router# configure
Router(config)# evpn
Router(config-evpn)# evi 2
```

evpn

To enter EVPN configuration mode, use the **evpn** command in the global configuration mode. To return to the global configuration mode, use the **no** form of this command.

evpn [**bgp** | **evi** | **interface** | **timers**]
no evpn [**bgp** | **evi** | **interface** | **timers**]

Syntax Description

bgp	Configures BGP.
evi	Configures Ethernet VPN ID (EVI).
interface	Assigns an interface to EVPN.
timers	Configures global EVPN timers.

Command Default

None.

Command Modes

Global configuration

Command History

Release	Modification
Release 7.11.1	This command was introduced.

Usage Guidelines

No specific guidelines impact the use of this command.

Task ID

Task ID	Operation
l2vpn	read, write

Example

This example shows how to enter the EVPN configuration mode:

```
Router# configure
Router(config)# evpn
Router(config-evpn)#
```

evpn host mac-address duplicate-detection

To enable duplicate detection of host MAC address, use the **evpn host mac-address duplicate-detection** command in the EVPN configuration mode.



Note This command is deprecated and has been replaced by **evpn mac secure** command.

evpn host mac-address duplicate-detection [**freeze-time** *freeze-time* | **move-count** *move-count* | **move-interval** *move-interval* | **retry-count** *retry-count* | **infinity** | **reset-freeze-count-interval** *interval*] **disable**

Syntax Description

freeze-time *freeze-time*	Length of time to lock the MAC address after it has been detected as duplicate. Default is 30 seconds.
move-count *move-count*	Number of moves to occur witin the specified **move-interval** before freezing the MAC address. Default is 5.
move-interval *move-interval*	Interval to watch for subsequent MAC moves before freezing the MAC address. Default is 180 seconds.
retry-count *retry-count*	Number of times to unfreeze an MAC address before freezing it permanently. Default is three times.
infinite	Infinite retry count. Prevents freezing of the duplicate MAC address permanently.
reset-freeze-count-interval *interval*	Interval after which the count of duplicate detection events is reset. Default is 24 hours. The range is from is 1 hour to 48 hours.
disable	Disable duplicate detection of MAC addresses.

Command Default

None

Command Modes

EVPN configuration mode

Command History

Release	Modification
Release 7.11.1	This command was introduced.

Usage Guidelines

None

Task ID

Task ID	Operation
l2vpn	read, write

Example

This example shows how to enable duplicate detection of host MAC address:

```
Router# configure
Router(config)# evpn
Router(config-evpn)# host MAC-address duplicate-detection
Router(config-evpn-host-mac-addr-dup-detection)# move-count 2
Router(config-evpn-host-mac-addr-dup-detection)# freeze-time 10
Router(config-evpn-host-mac-addr-dup-detection)# retry-count 2
Router(config-evpn-host-mac-addr-dup-detection)# commit
```

This example shows how to prevent permanent freezing of duplicate host MAC address:

```
Router# configure
Router(config)# evpn
Router(config-evpn)# host MAC-address duplicate-detection
Router(config-evpn-host-mac-addr-dup-detection)# retry-count infinity
Router(config-evpn-host-mac-addr-dup-detection)# commit
```

This example shows how to reset the interval after which the count of duplicate detection events are permanently frozen.

```
Router# configure
Router(config)# evpn
Router(config-evpn)# host MAC-address duplicate-detection
Router(config-evpn-host-mac-addr-dup-detection)# reset-freeze-count-interval 20
Router(config-evpn-host-mac-addr-dup-detection)# commit
```

evpn mac secure

To enable duplicate detection of host MAC address, use the **evpn mac secure** command in the EVPN configuration mode.

evpn mac secure [**freeze-time** *freeze-time* | **move-count** *move-count* | **move-interval** *move-interval* | **retry-count** *retry-count* | **infinity** | **reset-freeze-count-interval** *interval*] **disable**

Syntax Description

freeze-time *freeze-time*	Length of time to lock the MAC address after it has been detected as duplicate. Default is 30 seconds.
move-count *move-count*	Number of moves to occur witin the specified **move-interval** before freezing the MAC address. Default is 5.
move-interval *move-interval*	Interval to watch for subsequent MAC moves before freezing the MAC address. Default is 180 seconds.
retry-count *retry-count*	Number of times to unfreeze an MAC address before freezing it permanently. Default is three times.
infinite	Infinite retry count. Prevents freezing of the duplicate MAC address permanently.
reset-freeze-count-interval *interval*	Interval after which the count of duplicate detection events is reset. Default is 24 hours. The range is from is 1 hour to 48 hours.
disable	Disable duplicate detection of MAC addresses.

Command Default

None

Command Modes

EVPN configuration mode

Command History

Release	Modification
Release 7.11.1	This command was introduced.

Usage Guidelines

None

Task ID

Task ID	Operation
l2vpn	read, write

Example

This example shows how to enable duplicate detection of host MAC address:

```
Router# configure
Router(config)# evpn
Router(config-evpn)# mac secure
Router(config-evpn-host-mac-addr-dup-detection)# move-count 2
Router(config-evpn-host-mac-addr-dup-detection)# freeze-time 10
Router(config-evpn-host-mac-addr-dup-detection)# retry-count 2
Router(config-evpn-host-mac-addr-dup-detection)# commit
```

This example shows how to prevent permanent freezing of duplicate host MAC address:

```
Router# configure
Router(config)# evpn
Router(config-evpn)# mac secure
Router(config-evpn-host-mac-addr-dup-detection)# retry-count infinity
Router(config-evpn-host-mac-addr-dup-detection)# commit
```

This example shows how to reset the interval after which the count of duplicate detection events are permanently frozen.

```
Router# configure
Router(config)# evpn
Router(config-evpn)# mac secure
Router(config-evpn-host-mac-addr-dup-detection)# reset-freeze-count-interval 20
Router(config-evpn-host-mac-addr-dup-detection)# commit
```

load-balancing-mode

To enable the load-balancing mode, use the **load-balancing-mode** command in the EVPN interface configuration mode. To disable the load-balancing mode, use the **no** form of this command.

load-balancing-mode { **port-active** | **single-active** | **single-flow-active** }

Syntax Description

port-active	Enables the port-active load-balancing mode
single-active	Enables the single-active load-balancing mode.
single-flow-active	Enables the single-flow-active load-balancing mode.

Command Default

None

Command Modes

EVPN configuration mode

Command History

Release	Modification
Release 24.2.11	This command was introduced.

Usage Guidelines

No specific guidelines impact the use of this command.

Task ID

Task ID	Operation
l2vpn	read, write

Example

This example shows how to enable the single-active load-balancing mode:

```
Router# configure
Router(config)# evpn
Router(config-evpn)# ethernet-segment
Router(config-evpn-es)# load-balancing-mode single-active
```

This example shows how to enable the single-flow-active load-balancing mode:

```
Router# configure
Router(config)# evpn
Router(config-evpn)# ethernet-segment
Router(config-evpn-es)# load-balancing-mode single-flow-active
```

mpls static label (EVPN ELAN)

To configure the MPLS static labels for unicast IP traffic, use the **mpls static label** command in EVPN EVI configuration mode.

mpls static label unicast *label*

Syntax Description

unicast *label*	Configures a static MPLS label for unicast IP traffic. Range is 16 to 1,048,575.

Command Default

None

Command Modes

EVPN EVI configuration

Command History

Release	Modification
Release 25.3.1	This command was introduced.

Usage Guidelines

Use static MPLS labels within the range of 16 to 15,000 to avoid conflicts with existing dynamic labels and the default Segment Routing Local Block (SRLB) range of 15,000 to 15,999. For more information, see About the Segment Routing Local Block in the *Segment Routing Configuration Guide for Cisco 8000 Series Routers*.

Task ID

Task ID	Operations
l2vpn	read, write

Examples

The following example shows how to configures a static MPLS label for unicast IP traffic:

```
Router# configure
Router(config)# evpn
Router(config-evpn)# evi 1001
Router(config-evpn-evi)# advertise-mac
Router(config-evpn-evi)# mpls static label unicast 55555
```

mpls static label (EVPN VPWS)

To configure the MPLS static labels for EVPN VPWS, use the **mpls static label** command in L2VPN cross-connect P2P EVPN EVI configuration mode.

mpls static label local *label*

Syntax Description

local *label*	Configures a local EVPN EVI label. Range is 16 to 1,048,575.

Command Default

None

Command Modes

L2VPN cross-connect P2P EVPN EVI configuration

Command History

Release	Modification
Release 25.3.1	This command was introduced.

Usage Guidelines

Use static MPLS labels within the range of 16 to 15,000 to avoid conflicts with existing dynamic labels and the default Segment Routing Local Block (SRLB) range of 15,000 to 15,999. For more information, see About the Segment Routing Local Block in the *Segment Routing Configuration Guide for Cisco 8000 Series Routers*.

Task ID

Task ID	Operations
l2vpn	read, write

Examples

The following example shows how to configures a static MPLS label for EVPN VPWS in L2VPN cross-connect P2P EVPN EVI configuration mode:

```
Router# configure
Router(config)# l2vpn
Router(config-l2vpn)# xconnect group g1
Router(config-l2vpn-xc)# p2p p2p1
Router(config-l2vpn-xc-p2p)# neighbor evpn evi 1 service 1
Router(config-l2vpn-xc-p2p-evpn-instance)# mpls static label local 55555
```

show bgp l2vpn evpn

To display BGP routes associated with EVPN under L2VPN address family, use the **show bgp l2vpn evpn** command in EXEC mode.

show bgp l2vpn evpn {**bridge-domain** *bridge-domain-name* | **rd** {**all** *IPv4 address:nn 4-byte as-number:nn 2-byte as-number:nn*}}

Syntax Description

bridge-domain *bridge-domain-name*	Displays the bridges by the bridge ID. The bridge-domain-name argument is used to name a bridge domain.
rd	Displays routes with specific route distinguisher.
all	Displays specified routes in all RDs.
IPv4 address:nn	Specifies the IPv4 address of the route distinguisher. nn: 16-bit number
4-byte as-number:nn	Specifies 4-byte AS number in asdot (X.Y) format or in asplain format. • For 4-byte AS number in asdot (X.Y) format, the range is from 1 to 65535. The format is: <1-65535>.<0-65535>:<0-65535> • For 4-byte AS number in asplain format, the range is from 65536 to 4294967295. The format is: <65536-4294967295>: nn: 32-bit number
2-byte as-number:nn	Specifies 2-byte as-number. The range is from 1 to 65535. nn: 32-bit number

Command Default

None

Command Modes

EXEC

Command History

Release	Modification
Release 7.11.1	This command was introduced.

Usage Guidelines

No specific guidelines impact the use of this command.

Task ID

Task ID	Operation
bgp	read

Example

This sample output shows the BGP routes associated with EVPN with bridge-domain filter:

```
show bgp l2vpn evpn bridge-domain bd1
Network            Next Hop            Metric LocPrf Weight Path
Route Distinguisher: 192.0.2.1:1 (default for vrf bd1)
*>i[1][0077.0000.0000.0000.0001][0]/120
                     198.51.100.1                  100      0 i
*>i[1][0077.0000.0000.0000.0001][4294967295]/120
                     198.51.100.1                  100      0 i
*>i[1][0088.0000.0000.0000.0001][0]/120
                     203.0.113.1                   100      0 i
* i                  209.165.200.225               100      0 i
*>i[1][0088.0000.0000.0000.0001][4294967295]/120
                     203.0.113.1                   100      0 i
* i                  209.165.200.225               100      0 I
*  [2][0][48][0001.0000.0001][0]/104
*>                   209.165.201.1                            0 101 i
*>i[2][0][48][0002.0000.0001][0]/104
                     203.0.113.1                   100      0 102 i
* i                  209.165.200.225               100      0 102 i
*>i[3][0][32][203.0.113.1]/80
                     203.0.113.1                   100      0 i
*>i[3][0][32][209.165.200.225]/80
                     209.165.200.225               100      0 i
```

show evpn ethernet-segment

To display the EVPN Ethernet segment information, use the **show evpn ethernet-segment** command in the EXEC mode.

show evpn ethernet-segment [**detail** | **esi** | **interface** | **location** | **private** | **standby** | **carving**]

Syntax Description

detail	Displays detailed information.
esi	Filters by Ethernet Segment identifier.
interface	Filters by interface name.
location	Displays location specific information.
private	Displays private information.
standby	Displays standby node specific information.

Command Default

None.

Command Modes

EXEC

Command History

Release	Modification
Release 7.11.1	This command was introduced.

Usage Guidelines

No specific guidelines impact the use of this command.

Task ID

Task ID	Operation
l2vpn	read

Example

This sample output shows the EVPN Ethernet segment detailed information:

```
Router# show evpn ethernet-segment interface HundredGigE 0/0/0/24 detail

Ethernet Segment Id     Interface            Nexthops
----------------------  -----------          ----------
N/A                     HundredGigE 0/0/0/24 10.0.0.1
.....
Topology :
Operational : SH
```

show evpn evi

To display the EVPN E-VPN ID information, use the **show evpn evi** command in the EXEC mode.

show evpn evi [**bridge-domain** | **detail** | **inclusive-multicast** | **location** | **mac** | **standby** | **vpn-id**]

Syntax Description

bridge-domain	Displays information for a specified bridge-domain..
detail	Displays detailed information.
inclusive-multicast	Displays EVPN Inclusive Multicast information.
location	Displays location specific information.
mac	Displays EVI MAC route associated configuration information.
standby	Displays standby node specific information.
vpn-id	Displays information for a specified E-VPN Identifier.

Command Default

None.

Command Modes

EXEC

Command History

Release	Modification
Release 7.11.1	This command was introduced.
Release 25.1.1	The **show evpn evi mac** command output is enhanced to display the multi-paths internal ID.

Usage Guidelines

No specific guidelines impact the use of this command.

Task ID

Task ID	Operation
l2vpn	read

Example

This sample output shows the EVPN EVI information with the VPN-ID and MAC address filter:

```
Router#show evpn evi vpn-id 185 mac 0024.be03.ce01
MAC address    Nexthop                                 Label    vpn-id
-------------- --------------------------------------- -------- --------
0024.be03.ce01 3.100.100.100                           16004    185
               4.100.100.100                           16004    185
   ESI port key : 0x0000
```

```
   Source       : Remote
   Flush Count  : 0
```

This sample output shows the EVPN EVI information with the VPN-ID and inclusive-multicast filter:

```
Router#show evpn evi vpn-id 185 inclusive-multicast service-id 1850312 orig-ip 1.100.100.100
ISID           Originating IP                 vpn-id
-------------- ------------------------------ ----------
1850312        1.100.100.100                            185
1850312        2.100.100.100                            185
1850312        3.100.100.100                            185
1850312        4.100.100.100                            185
```

This sample output shows the EVPN EVI inclusive-multicast information:

```
Router#show evpn evi inclusive-multicast detail
ISID: 1850312, Originating IP: 1.100.100.100                           185
    Nexthop: ::
    Label  : 16005
    Source : Local
ISID: 1850312, Originating IP: 2.100.100.100                           185
    Nexthop: 2.100.100.100
    Label  : 16005
    Source : Remote
ISID: 1850312, Originating IP: 3.100.100.100                           185
    Nexthop: 3.100.100.100
    Label  : 16005
    Source : Remote
ISID: 1850312, Originating IP: 4.100.100.100                           185
    Nexthop: 4.100.100.100
    Label  : 16005
    Source : Remote
```

This sample output shows the EVPN EVI information with the bridge-domain filter:

```
Router#show evpn evi bridge-domain tb1-core1 detail
EVI        Bridge Domain                Type
---------- ---------------------------- -------
145        tb1-core1                    PBB
165        tb1-core2                    PBB
185        tb1-core3                    PBB
65535      ES:GLOBAL                    BD
```

This sample output shows the EVPN EVI detailed information:

```
Router#show evpn evi detail
EVI        Bridge Domain                Type
---------- ---------------------------- -------
145        tb1-core1                    PBB
   Unicast Label  : 16000
   Multicast Label: 16001
   RD Config: none
   RD Auto  : (auto) 1.100.100.100:145
   RT Auto  : 100:145
   Route Targets in Use           Type
   ------------------------------ -------
   100:145                        Import
```

```
   100:145                       Export

165        tb1-core2                    PBB
   Unicast Label  : 16002
   Multicast Label: 16003
   RD Config: none
   RD Auto  : (auto) 1.100.100.100:165
   RT Auto  : 100:165
   Route Targets in Use          Type
   ------------------------------ -------
   100:165                       Import
   100:165                       Export

185        tb1-core3                    PBB
   Unicast Label  : 16004
   Multicast Label: 16005
   RD Config: none
   RD Auto  : (auto) 1.100.100.100:185
   RT Auto  : 100:185
   Route Targets in Use          Type
   ------------------------------ -------
   100:185                       Import
   100:185                       Export

65535      ES:GLOBAL                    BD
   Unicast Label  : 0
   Multicast Label: 0
   RD Config: none
   RD Auto  : (auto) 1.100.100.100:0
   RT Auto  : none
   Route Targets in Use          Type
   ------------------------------ -------
   0100.9e00.0210                Import
   0100.be01.ce00                Import
   0100.be02.0101                Import
```

This sample output shows the EVPN EVI information with the MAC address filter:

```
Router# show evpn evi mac ee04.0700.0450 detail

VPN-ID     Encap      MAC address    IP address                              Nexthop
                           Label    SID
---------- ---------- -------------- ----------------------------------------
---------------------------------- -------- ----------------------------------------
12         MPLS       ee04.0700.0450 ::                                      192.168.0.4
                           24171
   Ethernet Tag                          : 0
   Multi-paths Resolved                  : True
   Multi-paths Internal label            : 29022
   Service Group ID                      : None
   Local Static                          : No
   Remote Static                         : Yes
   Local Ethernet Segment                : N/A
   Remote Ethernet Segment               : 0001.0001.0001.0701.0007
   Local Sequence Number                 : N/A
   Remote Sequence Number                : 0
   Local Encapsulation                   : N/A
   Remote Encapsulation                  : MPLS
   Local E-Tree                          : Root
   Remote E-Tree                         : Root
   Remote matching E-Tree RT             : No
   Local AC-ID                           : 0x0
   Remote AC-ID                          : 0x45
```

```
   Local ARP/ND Information               : N/A
   Remote ARP/ND Information              : N/A
```

From Release 25.1.1, the command output displays multi-paths internal ID. In this example, the multi-paths internal ID shows "none", but for SRv6 MACs, it displays a specific value.

```
Router# show evpn evi mac ee04.0700.0450 detail

VPN-ID     Encap      MAC address    IP address                                Nexthop
                           Label    SID
---------- ---------- -------------- ----------------------------------------
----------------------------------- -------- ----------------------------------------
12         MPLS       ee04.0700.0450 ::                                        192.168.0.4
                           24171
   Ethernet Tag                           : 0
   Multi-paths Resolved                   : True
   Multi-paths Internal label             : 29022
   Multi-paths Internal ID                : None
   Service Group ID                       : None
   Local Static                           : No
   Remote Static                          : Yes
   Local Ethernet Segment                 : N/A
   Remote Ethernet Segment                : 0001.0001.0001.0701.0007
   Local Sequence Number                  : N/A
   Remote Sequence Number                 : 0
   Local Encapsulation                    : N/A
   Remote Encapsulation                   : MPLS
   Local E-Tree                           : Root
   Remote E-Tree                          : Root
   Remote matching E-Tree RT              : No
   Local AC-ID                            : 0x0
   Remote AC-ID                           : 0x45
   Local ARP/ND Information               : N/A
   Remote ARP/ND Information              : N/A
```

show evpn internal-label

To display EVPN internal label associated configuration information, use the **show evpn internal-label** command in the EXEC mode.

show evpn internal-label [**vpn-id** *evi* [**detail**]]

Syntax Description

vpn-id *evi*	Displays information for a specified E-VPN Identifier.
detail	Displays detailed information.

Command Default

None

Command Modes

EXEC

Command History

Release	Modification
Release 6.1.21	This command was introduced.
Release 25.1.1	The command output is enhanced to display the path version.

Usage Guidelines

No specific guidelines impact the use of this command.

Task ID

Task ID	Operation
l2vpn	read

Example

This sample output shows the EVPN internal label associated configuration information.

```
Router# show evpn internal-label vpn-id 15 tag 60 detail

VPN-ID     Encap  Ethernet Segment Id         EtherTag     Label
---------- ------ -------------------------- ----------   --------
15         MPLS   0001.0001.0001.1101.0011    60           28665
   Multi-paths resolved: TRUE (Remote port-active)
   Multi-paths Internal label: 28665
    EAD/ES  (ID:0x00000000000014c0)
            (P) 192.168.0.3                               0
    EAD/EVI (ID:0x00000000000014bf)
            (P) SR-TE BSID 28470
   Summary pathlist (ID 0x00000000000014c2):
 0x02000009 (P) SR-TE BSID 28470
```

From Release 25.1.1, the command output displays path version.

```
Router# show evpn internal-label vpn-id 15 tag 60 detail
```

```
VPN-ID     Encap  Ethernet Segment Id         EtherTag     Label
---------- ------ -------------------------- ----------   --------
15         MPLS   0001.0001.0001.1101.0011    60           28665
   Multi-paths resolved: TRUE (Remote port-active)
   Multi-paths Internal label: 28665
    EAD/ES  (ID:0x00000000000014c0)
            (P) 192.168.0.3                               0
                  Path Version:2, Originating PE:::
    EAD/EVI (ID:0x00000000000014bf)
            (P) SR-TE BSID 28470
   Summary pathlist (ID 0x00000000000014c2):
 0x02000009 (P) SR-TE BSID 28470
```

show evpn summary

To display the EVPN summary, use the **show evpn summary** command in the EXEC mode.

show evpn summary[**location** | **private** | **standby**]

Syntax Description

location	Displays location specific information.
private	Displays private information.
standby	Displays standby node specific information.

Command Default

None.

Command Modes

EXEC

Command History

Release	Modification
Release 7.11.1	This command was introduced.

Usage Guidelines

No specific guidelines impact the use of this command.

Task ID

Task ID	Operation
l2vpn	read

Example

This sample output shows the EVPN summary:

```
Router#show evpn summary
------------------------------
Global Information
------------------------------
Number of EVIs                : 1
Number of Local MAC Routes    : 1
Number of Remote MAC Routes   : 0
Number of Local IMCAST Routes : 0
Number of Remote IMCAST Routes: 0
Number of Internal Labels     : 0
Number of ES Entries          : 0
BGP Router ID                 : ::
BGP ASN                       : Invalid
PBB BSA MAC address           : f866.f214.abd7
Global peering timer          :     45 seconds
Global recovery timer         :     20 seconds
Global programming timer      :   1500 microseconds
Global flushagain timer       :     60 seconds
------------------------------
High Availability Information
```

```
----------------------------
BGP EOD                       : N
Number of Marked MAC Routes   : 0
Number of Swept MAC Routes    : 0
Number of Marked IMCAST Routes: 0
Number of Swept IMCAST Routes : 0
```