



## MPLS VPN Per VRF Label

---

The MPLS VPN Per VRF Label feature allows you to configure a single Virtual Private Network (VPN) label for all local routes in the entire VPN routing and forwarding (VRF) domain. This MPLS VPN Per VRF Label feature incorporates a single (per VRF) VPN label that for all local routes in the VRF table.

You can enable (or disable) the MPLS VPN Per VRF Label feature in global configuration mode.

- [Finding Feature Information, on page 1](#)
- [Prerequisites for MPLS VPN Per VRF Label, on page 1](#)
- [Restrictions for MPLS VPN Per VRF Label, on page 2](#)
- [Information About MPLS VPN Per VRF Label, on page 2](#)
- [How to Configure MPLS VPN Per VRF Label, on page 3](#)
- [Configuration Examples for MPLS VPN Per VRF Label, on page 5](#)
- [Additional References, on page 9](#)
- [Feature Information for MPLS VPN Per VRF Label, on page 10](#)

## Finding Feature Information

Your software release may not support all the features documented in this module. For the latest caveats and feature information, see [Bug Search Tool](#) and the release notes for your platform and software release. To find information about the features documented in this module, and to see a list of the releases in which each feature is supported, see the feature information table.

Use Cisco Feature Navigator to find information about platform support and Cisco software image support. To access Cisco Feature Navigator, go to [www.cisco.com/go/cfn](http://www.cisco.com/go/cfn). An account on Cisco.com is not required.

## Prerequisites for MPLS VPN Per VRF Label

- If your virtual routing and forwarding (VRF) domain has the external/internal Border Gateway Protocol (EIBGP) multipath feature or the Carrier Supporting Carrier (CSC) feature enabled, disable those features before you configure the MPLS VPN Per VRF Label feature.
- Before configuring Multiprotocol Label Switching (MPLS) Layer 3 Virtual Private Networks (VPNs), you must install MPLS, Label Distribution Protocol (LDP), and Cisco Express Forwarding in your network. All devices in the core, including the provider edge (PE) devices, must be able to support Cisco Express Forwarding and MPLS forwarding.

## Restrictions for MPLS VPN Per VRF Label

- Enabling the MPLS VPN Per VRF Label feature causes Border Gateway Protocol (BGP) reconvergence, which can result in data loss for traffic coming from the Multiprotocol Label Switching (MPLS) Virtual Private Network (VPN) core.

**Note**

You can minimize network disruption by enabling this feature during a scheduled MPLS maintenance window. Also, if possible, avoid enabling this feature on a live device

- There is no performance degradation when you configure up to 511 VRFs; however, when you add more than 511 VRFs, your network might experience some minor performance degradation (similar to the normal degradation experienced by any of the directly connected VRF prefixes present in the device).
- Per-prefix MPLS counters for VPN prefixes are lost when you enable the MPLS VPN Per VRF Label feature.
- You cannot use this feature with Carrier Supporting Carrier (CSC) and external/internal Border Gateway Protocol (EIBGP) multipath features.

## Information About MPLS VPN Per VRF Label

### MPLS VPN Per VRF Label Functionality

The provider edge (PE) stores both local and remote routes and includes a label entry for each route. For distributed platforms, the per-prefix labels consume memory. When there are many virtual routing and forwarding (VRF) domains and routes, the amount of memory that the per-prefix labels consume can become an issue.

The MPLS VPN Per VRF Label feature allows the advertisement of a single Virtual Private Network (VPN) label for local routes throughout the entire VRF. The device uses a new VPN label for the VRF decoding and IP-based lookup to learn where to forward packets for the PE or customer edge (CE) interfaces.

The following conditions apply when you configure the Per VRF Label feature:

- The VRF uses one label for all local routes.
- When you *enable* the MPLS VPN Per VRF Label feature, any existing Per VRF Aggregate label is used. If no Per VRF Aggregate label is present, the software creates a new Per VRF label.
- When you *enable* the MPLS VPN Per VRF Label feature, the CE device's learned local routes will experience some data loss.

The CE does not lose data when you disable the MPLS VPN Per VRF Label feature because when you disable the feature, the configuration reverts to the default labeling configuration, which uses the Per VRF Aggregate label from the local nonCE-sourced routes.

- When you *disable* the MPLS VPN Per VRF Label feature, the configuration reverts to the default configuration.

- A Per VRF label forwarding entry is deleted only if the VRF or the Border Gateway Protocol (BGP) configuration is removed.

### Summarization of Label Allocation Modes

The table below defines the label allocations used with various route types.

**Table 1: Label Allocation Modes**

Route Types	Label Mode Default	Label Mode: Per VRF Label Feature
Local to the PE (connected, static route to NULL0, BGP aggregates), redistributed to BGP	Per VRF Aggregate label	Per VRF label
Locally learned from CE (through EBGP or other PE or CE protocols)	Per Prefix label	Per VRF label

# How to Configure MPLS VPN Per VRF Label

## Configuring the Per VRF Label Feature

### Procedure

	Command or Action	Purpose
<b>Step 1</b>	<b>enable</b> <b>Example:</b> Device> enable	Enables privileged EXEC mode. <ul style="list-style-type: none"> <li>• Enter your password if prompted.</li> </ul>
<b>Step 2</b>	<b>configure terminal</b> <b>Example:</b> Device# configure terminal	Enters global configuration mode.
<b>Step 3</b>	<b>mpls label mode {vrf vrf-name   all-vrfs}</b> <b>protocol bgp-vpnv4 {per-prefix   per-vrf}</b> <b>Example:</b> Device(config)# mpls label mode all-vrfs protocol bgp-vpnv4 per-vrf	Configures the MPLS VPN Per VRF Label feature.
<b>Step 4</b>	<b>end</b> <b>Example:</b> Device(config)# end	Returns to privileged EXEC mode.

	Command or Action	Purpose
<b>Step 5</b>	<b>show ip vrf detail</b>  <b>Example:</b>  Device# show ip vrf detail	Displays the VRF label mode.

## Examples

The following command example shows how to verify the MPLS VPN Per VRF Label configuration:

In this example output, the **bold** text indicates the label modes:

```

Device# show ip vrf detail
VRF vpn1; default RD 1:1; default VPNID <not set>
VRF Table ID = 1
  Interfaces:
    Ethernet0/0          Serial5/0          Loopback1
  Connected addresses are not in global routing table
  Export VPN route-target communities
    RT:1:1
  Import VPN route-target communities
    RT:1:1
  No import route-map
  No export route-map
  CSC is not configured.
VRF label allocation mode: per-vrf (Label 19)
VRF vpn2; default RD 2:1; default VPNID <not set>
VRF Table ID = 2
  Interfaces:
    Ethernet2/0          Loopback2
  Connected addresses are not in global routing table
  Export VPN route-target communities
    RT:2:1
  Import VPN route-target communities
    RT:2:1
  No import route-map
  No export route-map
  CSC is not configured.
VRF label allocation mode: per-vrf (Label 20)
VRF vpn3; default RD 3:1; default VPNID <not set>
VRF Table ID = 3
  Interfaces:
    Ethernet3/0          Loopback3
  Connected addresses are not in global routing table
  Export VPN route-target communities
    RT:3:1
  Import VPN route-target communities
    RT:3:1
  No import route-map
  No export route-map
  CSC is not configured.
VRF label allocation mode: per-vrf (Label 23)
Device# show ip bgp vpnv4 all labels
Network          Next Hop          In label/Out label
Route Distinguisher: 1:1 (vpn1)
  127.0.0.1/32    192.168.1.1      IPv4 VRF Aggr:19/nolabel
  127.0.0.5/32    127.0.0.4        nolabel/19
  192.168.1.0/24  192.168.1.1      IPv4 VRF Aggr:19/nolabel
  0.0.0.0         0.0.0.0          IPv4 VRF Aggr:19/aggregate (vpn1)

```

```

192.168.4.0/24 127.0.0.4 nolabel/20
172.16.0.0/16 0.0.0.0 IPv4 VRF Aggr:19/aggregate (vpn1)
172.16.128.0/32 192.168.1.1 IPv4 VRF Aggr:19/nolabel
Route Distinguisher: 2:1 (vpn2)
127.0.2.2/32 0.0.0.0 IPv4 VRF Aggr:20/aggregate (vpn2)
127.0.0.6/32 192.168.5.1 IPv4 VRF Aggr:20/nolabel
192.168.5.0/24 0.0.0.0 IPv4 VRF Aggr:20/aggregate (vpn2)
172.17.128.0/32 192.168.5.1 IPv4 VRF Aggr:20/nolabel
Route Distinguisher: 3:1 (vpn3)
127.0.3.2/32 0.0.0.0 IPv4 VRF Aggr:23/aggregate (vpn3)
127.0.0.8/32 192.168.7.1 IPv4 VRF Aggr:23/nolabel
192.168.7.0/24 0.0.0.0 IPv4 VRF Aggr:23/aggregate (vpn3)
172.16.128.0/32 192.168.7.1 IPv4 VRF Aggr:23/nolabel
Device# show mpls forwarding-table

Local   Outgoing   Prefix           Bytes tag   Outgoing   Next Hop
tag     tag or VC  or Tunnel Id     switched   interface
16      Pop tag    192.168.3.0/24   0          Et1/0      192.168.2.3
17      Pop tag    127.0.0.3/32    0          Et1/0      192.168.2.3
18      17        127.0.0.4/32    0          Et1/0      192.168.2.3
19      Pop Label IPv4 VRF[V]     0          aggregate/vpn1
20      Pop Label IPv4 VRF[V]     0          aggregate/vpn2
23      Pop Label IPv4 VRF[V]     0          aggregate/vpn3
PE1#

```

## Configuration Examples for MPLS VPN Per VRF Label

### Example: No Label Mode Default Configuration

The following example shows the default label mode configuration (no label mode).

In this example output, the **bold** text indicates the label modes:

```

Device# show ip vrf detail
VRF vpn1; default RD 1:1; default VPNID <not set>
VRF Table ID = 1
  Interfaces:
    Ethernet0/0          Serial5/0          Loopback1
  Connected addresses are not in global routing table
  Export VPN route-target communities
    RT:1:1
  Import VPN route-target communities
    RT:1:1
  No import route-map
  No export route-map
  CSC is not configured.
VRF label allocation mode: per-prefix
per-vrf-aggr for connected and BGP aggregates (Label 19)
VRF vpn2; default RD 2:1; default VPNID <not set>
VRF Table ID = 2
  Interfaces:
    Ethernet2/0          Loopback2
  Connected addresses are not in global routing table
  Export VPN route-target communities
    RT:2:1
  Import VPN route-target communities
    RT:2:1
  No import route-map
  No export route-map

```

## Example: Mixed Mode with Global Per-Prefix

CSC is not configured.

**VRF label allocation mode: per-prefix**

**per-vrf-aggr for connected and BGP aggregates (Label 20)**

VRF vpn3; default RD 3:1; default VPNID <not set>

VRF Table ID = 3

Interfaces:

Ethernet3/0                      Loopback3

Connected addresses are not in global routing table

Export VPN route-target communities

RT:3:1

Import VPN route-target communities

RT:3:1

No import route-map

No export route-map

CSC is not configured.

**VRF label allocation mode: per-prefix**

**per-vrf-aggr for connected and BGP aggregates (Label 23)**

Device# **show ip bgp vpnv4 all labels**

Network	Next Hop	In label/Out label
Route Distinguisher: 1:1 (vpn1)		
127.0.0.1/32	192.168.1.1	27/nolabel
127.0.0.5/32	127.0.0.4	nolabel/19
192.168.1.0/24	192.168.1.1	IPv4 VRF Aggr:19/nolabel
	0.0.0.0	IPv4 VRF Aggr:19/aggregate(vpn1)
192.168.4.0/24	127.0.0.4	nolabel/20
172.16.0.0/16	0.0.0.0	IPv4 VRF Aggr:19/aggregate(vpn1)
172.16.128.0/32	192.168.1.1	28/nolabel
Route Distinguisher: 2:1 (vpn2)		
127.0.2.2/32	0.0.0.0	IPv4 VRF Aggr:20/aggregate(vpn2)
127.0.0.6/32	192.168.5.1	21/nolabel
192.168.5.0/24	0.0.0.0	IPv4 VRF Aggr:20/aggregate(vpn2)
172.17.128.0/32	192.168.5.1	22/nolabel
Route Distinguisher: 3:1 (vpn3)		
127.0.3.2/32	0.0.0.0	IPv4 VRF Aggr:23/aggregate(vpn3)
127.0.0.8/32	192.168.7.1	24/nolabel
192.168.7.0/24	0.0.0.0	IPv4 VRF Aggr:23/aggregate(vpn3)
172.16.128.0/32	192.168.7.1	25/nolabel

Device# **show mpls forwarding-table**

Local tag	Outgoing tag or VC	Prefix or Tunnel Id	Bytes switched	tag	Outgoing interface	Next Hop
16	Pop tag	192.168.3.0/24	0		Et1/0	192.168.2.3
17	Pop tag	127.0.0.3/32	0		Et1/0	192.168.2.3
18	17	127.0.0.4/32	0		Et1/0	192.168.2.3
19	Pop Label	IPv4 VRF[V]	<b>0</b>		<b>aggregate/vpn1</b>	
20	Pop Label	IPv4 VRF[V]	<b>0</b>		<b>aggregate/vpn2</b>	
21	Untagged	127.0.0.6/32[V]	0		Et2/0	192.168.5.1
22	Untagged	172.17.128.0/32[V]0	0		Et2/0	192.168.5.1
23	Pop Label	IPv4 VRF[V]	<b>0</b>		<b>aggregate/vpn3</b>	
24	Untagged	127.0.0.8/32[V]	0		Et3/0	192.168.7.1
25	Untagged	172.16.128.0/32[V]0	0		Et3/0	192.168.7.1
27	Untagged	127.0.0.1/32[V]	0		Et0/0	192.168.1.1
28	Untagged	172.16.128.0/32[V]0	0		Et0/0	192.168.1.1

## Example: Mixed Mode with Global Per-Prefix

For this example, the following commands set VPN 1 for per-vrf label mode, VPN 2 for per-prefix label mode, and all remaining VPNs for per-prefix (globally).

In this example output, the **bold** text indicates the label modes:

```
Device# mpls label mode vrf vpn1 protocol bgp-vpnv4 per-vrf
Device# mpls label mode vrf vpn2 protocol bgp-vpnv4 per-prefix
```

Use the following show commands to display the label mode settings:

```
Device# show ip vrf detail
VRF vpn1; default RD 1:1; default VPNID <not set>
VRF Table ID = 1
  Interfaces:
    Ethernet0/0          Serial5/0          Loopback1
  Connected addresses are not in global routing table
  Export VPN route-target communities
    RT:1:1
  Import VPN route-target communities
    RT:1:1
  No import route-map
  No export route-map
  CSC is not configured.
VRF label allocation mode: per-vrf (Label 26)
VRF vpn2; default RD 2:1; default VPNID <not set>
VRF Table ID = 2
  Interfaces:
    Ethernet2/0          Loopback2
  Connected addresses are not in global routing table
  Export VPN route-target communities
    RT:2:1
  Import VPN route-target communities
    RT:2:1
  No import route-map
  No export route-map
  CSC is not configured.
VRF label allocation mode: per-prefix
per-vrf-aggr for connected and BGP aggregates (Label 27)
VRF vpn3; default RD 3:1; default VPNID <not set>
VRF Table ID = 3
  Interfaces:
    Ethernet3/0          Loopback3
  Connected addresses are not in global routing table
  Export VPN route-target communities
    RT:3:1
  Import VPN route-target communities
    RT:3:1
  No import route-map
  No export route-map
  CSC is not configured.

VRF label allocation mode: per-prefix
per-vrf-aggr for connected and BGP aggregates (Label 28)
Device# show ip bgp vpnv4 all label
  Network          Next Hop          In label/Out label
Route Distinguisher: 1:1 (vpn1)
  127.0.0.1/32    192.168.1.1      IPv4 VRF Aggr:26/nolabel
  127.0.0.5/32    127.0.0.4        nolabel/19
  192.168.1.0/24  0.0.0.0          IPv4 VRF Aggr:26/aggregate(vpn1)
  192.168.1.1    192.168.1.1      IPv4 VRF Aggr:26/nolabel
  192.168.4.0/24  127.0.0.4        nolabel/20
  172.16.0.0/16  0.0.0.0          IPv4 VRF Aggr:26/aggregate(vpn1)
  172.16.128.0/32 192.168.1.1      IPv4 VRF Aggr:26/nolabel
Route Distinguisher: 2:1 (vpn2)
  127.0.2.2/32    0.0.0.0          IPv4 VRF Aggr:27/aggregate(vpn2)
  127.0.0.6/32    192.168.5.1      20/nolabel
  192.168.5.0/24  0.0.0.0          IPv4 VRF Aggr:27/aggregate(vpn2)
```

## Example: Mixed Mode with Global Per-VRF

```

172.17.128.0/32 192.168.5.1 21/nolabel
Route Distinguisher: 3:1 (vpn3)
127.0.3.2/32 0.0.0.0 IPv4 VRF Aggr:28/aggregate (vpn3)
127.0.0.8/32 192.168.7.1 22/nolabel
192.168.7.0/24 0.0.0.0 IPv4 VRF Aggr:28/aggregate (vpn3)
172.16.128.0/32 192.168.7.1 23/nolabel
Device# show mpls forwarding-table

Local  Outgoing  Prefix          Bytes tag  Outgoing  Next Hop
tag    tag or VC  or Tunnel Id    switched  interface
16     Pop tag    192.168.3.0/24  0          Et1/0     192.168.2.3
17     Pop tag    127.0.0.3/32   0          Et1/0     192.168.2.3
18     17        127.0.0.4/32   0          Et1/0     192.168.2.3
20     Untagged  127.0.0.6/32[V] 0          Et2/0     192.168.5.1
21     Untagged  172.17.128.0/32[V]0 0      Et2/0     192.168.5.1
22     Untagged  127.0.0.8/32[V] 0          Et3/0     192.168.7.1
23     Untagged  172.16.128.0/32[V]0 0      Et3/0     192.168.7.1
26     Pop Label  IPv4 VRF[V]    0          aggregate/vpn1
27     Pop Label  IPv4 VRF[V]    0          aggregate/vpn1
28     Pop Label  IPv4 VRF[V]    0          aggregate/vpn1

```

## Example: Mixed Mode with Global Per-VRF

For this example, the following commands set VPN 1 for per-vrf label mode, VPN 2 for per-prefix label mode, and all remaining VPNs for per-vrf (globally).

In this example output, the **bold** text indicates the label modes:

```

Device# mpls label mode vrf vpn1 protocol bgp-vpnv4 per-vrf
Device# mpls label mode vrf vpn2 protocol bgp-vpnv4 per-prefix
Device# mpls label mode all-vrfs protocol bgp-vpnv4 per-vrf
Device# show ip vrf detail
VRF vpn1; default RD 1:1; default VPNID <not set>
VRF Table ID = 1
  Interfaces:
    Ethernet0/0          Serial5/0          Loopback1
  Connected addresses are not in global routing table
  Export VPN route-target communities
    RT:1:1
  Import VPN route-target communities
    RT:1:1
  No import route-map
  No export route-map
CSC is not configured.
VRF label allocation mode: per-vrf (Label 26)
VRF vpn2; default RD 2:1; default VPNID <not set>
VRF Table ID = 2
  Interfaces:
    Ethernet2/0          Loopback2
  Connected addresses are not in global routing table
  Export VPN route-target communities
    RT:2:1
  Import VPN route-target communities
    RT:2:1
  No import route-map
  No export route-map
CSC is not configured.
VRF label allocation mode: per-prefix
per-vrf-aggr for connected and BGP aggregates (Label 27)
VRF vpn3; default RD 3:1; default VPNID <not set>
VRF Table ID = 3

```



```

Interfaces:
  Ethernet3/0          Loopback3
Connected addresses are not in global routing table
Export VPN route-target communities
  RT:3:1
Import VPN route-target communities
  RT:3:1
No import route-map
No export route-map
CSC is not configured.
VRF label allocation mode: per-vrf (Label 28)
Device# show ip bgp vpnv4 all label

      Network          Next Hop      In label/Out label
Route Distinguisher: 1:1 (vpn1)
  127.0.0.1/32      192.168.1.1   IPv4 VRF Aggr:26/nolabel
  127.0.0.5/32      127.0.0.4     nolabel/19
  192.168.1.0/24    0.0.0.0       IPv4 VRF Aggr:26/aggregate (vpn1)
                   192.168.1.1   IPv4 VRF Aggr:26/nolabel
  192.168.4.0/24    127.0.0.4     nolabel/20
  172.16.0.0/16     0.0.0.0       IPv4 VRF Aggr:26/aggregate (vpn1)
  172.16.128.0/32 192.168.1.1   IPv4 VRF Aggr:26/nolabel
Route Distinguisher: 2:1 (vpn2)
  127.0.2.2/32      0.0.0.0       IPv4 VRF Aggr:27/aggregate (vpn2)
  127.0.0.6/32      192.168.5.1   20/nolabel
  192.168.5.0/24    0.0.0.0       IPv4 VRF Aggr:27/aggregate (vpn2)
  172.17.128.0/32   192.168.5.1   21/nolabel
Route Distinguisher: 3:1 (vpn3)
  127.0.3.2/32      0.0.0.0       IPv4 VRF Aggr:28/aggregate (vpn3)
  127.0.0.8/32      192.168.7.1   IPv4 VRF Aggr:28/nolabel
  192.168.7.0/24    0.0.0.0       IPv4 VRF Aggr:28/aggregate (vpn3)
  172.16.128.0/32 192.168.7.1   IPv4 VRF Aggr:28/nolabel
Device# show mpls forwarding-table

```

Local tag	Outgoing tag or VC	Prefix or Tunnel Id	Bytes switched	tag	Outgoing interface	Next Hop
16	Pop tag	192.168.3.0/24	0		Et1/0	192.168.2.3
17	Pop tag	127.0.0.3/32	0		Et1/0	192.168.2.3
18	17	127.0.0.4/32	0		Et1/0	192.168.2.3
20	Untagged	127.0.0.6/32[V]	0		Et2/0	192.168.5.1
21	Untagged	172.17.128.0/32[V]	0		Et2/0	192.168.5.1
<b>26</b>	<b>Pop Label</b>	<b>IPv4 VRF [V]</b>	<b>0</b>		<b>aggregate/vpn1</b>	
<b>27</b>	<b>Pop Label</b>	<b>IPv4 VRF [V]</b>	<b>0</b>			
	<b>aggregate/vpn2</b>					
<b>28</b>	<b>Pop Label</b>	<b>IPv4 VRF [V]</b>	<b>0</b>		<b>aggregate/vpn3</b>	

## Additional References

### Related Documents

Related Topic	Document Title
Cisco IOS commands	<a href="#">Cisco Master Command List, All Releases</a>
MPLS and MPLS applications commands	<a href="#">Cisco IOS Multiprotocol Label Switching Command Reference</a>
MPLS VPNs	<i>MPLS Layer 3 VPNs Configuration Guide</i>

**Standards and RFCs**

Standard/RFC	Title
RFC 2547	<i>BGP/MPLS</i>

**Technical Assistance**

Description	Link
The Cisco Support and Documentation website provides online resources to download documentation, software, and tools. Use these resources to install and configure the software and to troubleshoot and resolve technical issues with Cisco products and technologies. Access to most tools on the Cisco Support and Documentation website requires a Cisco.com user ID and password.	<a href="http://www.cisco.com/cisco/web/support/index.html">http://www.cisco.com/cisco/web/support/index.html</a>

## Feature Information for MPLS VPN Per VRF Label

The following table provides release information about the feature or features described in this module. This table lists only the software release that introduced support for a given feature in a given software release train. Unless noted otherwise, subsequent releases of that software release train also support that feature.

Use Cisco Feature Navigator to find information about platform support and Cisco software image support. To access Cisco Feature Navigator, go to [www.cisco.com/go/cfn](http://www.cisco.com/go/cfn). An account on Cisco.com is not required.

**Table 2: Feature Information for MPLS VPN Per VRF Label**

Feature Name	Releases	Feature Information
MPLS VPN Per VRF Label	12.2(18)SXF2 12.2(33)SRA 12.2(33)SXH 12.4(6)T Cisco IOS XE Release 2.2	<p>The MPLS VPN Per VRF Label feature allows a user to configure a single VPN label for all local routes in the entire VPN routing and forwarding (VRF) domain. The feature incorporates a single (per VRF) VPN label for all local routes in the VRF table.</p> <p>In Cisco IOS Release 12.2(18)SXF2, this feature was introduced.</p> <p>In Cisco IOS Releases 12.2(33)SRA, 12.2(33)SRD, and 12.4(6)T, this feature was integrated.</p> <p>In Cisco IOS XE Release 2.2, support was added for the Cisco ASR 1000 Series Routers.</p> <p>The following commands were introduced or modified:</p> <p><b>debug ip bgp vpnv4 unicast, mpls label mode.</b></p>