



# MPLS Layer 3 VPN Features Roadmap

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This roadmap lists the features documented in the MPLS Layer 3 VPN configuration guide and maps them to the modules in which they appear.

## Finding Feature Information

Your software release may not support all the features documented in this module. For the latest feature information and caveats, see the release notes for your platform and software release.

Use Cisco Feature Navigator to find information about platform support and Cisco IOS, Catalyst OS, and Cisco IOS XE software image support. To access Cisco Feature Navigator, go to <http://www.cisco.com/go/cfn>. An account on Cisco.com is not required.

**Table 1** Supported MPLS VPN Features

| Feature Name   | Feature Description   | Where Documented   |
|--|---|--|
| BGP Multipath Load Sharing for Both eBGP and iBGP in an MPLS VPN | This feature allows multihomed autonomous systems and PE routers to be configured to distribute traffic across both eBGP and iBGP paths.              | <a href="#">Load Sharing MPLS VPN Traffic</a>                                  |
| Dialer Map VRF-Aware for an MPLS VPN                             | This feature enables dialer software to distinguish between two destinations with the same IP address.  | <a href="#">Dialing to Destinations with the Same IP Address for MPLS VPNs</a> |
| eBGP Multipath   | This feature installs multiple paths in the IP routing table when the eBGP paths are learned from a neighboring AS, instead of picking one best path. | <a href="#">Load Sharing MPLS VPN Traffic</a>                                  |
| iBGP Multipath Load Sharing                                      | This feature enables the BGP speaking router to select multiple iBGP paths as the best paths to a destination.  | <a href="#">Load Sharing MPLS VPN Traffic</a>                                  |



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**Table 1** Supported MPLS VPN Features (continued)

| Feature Name   | Feature Description  | Where Documented   |
|--|--|--|
| Inter-Autonomous Systems for MPLS VPNs                             | This feature enables an MPLS VPN to span service providers and autonomous systems. This feature explains how to configure the Inter-AS using the ASBRs to exchange VPNv4 addresses.  | <a href="#">MPLS VPN Inter-AS with ASBRs Exchanging IPv4 Routes and MPLS Labels</a>  |
| MPLS Virtual Private Networks                                      | This feature allows a set of sites to be interconnected by means of an MPLS provider core network. At each customer site, one or more CE routers attach to one or more PE routers.   | <a href="#">Configuring MPLS Layer 3 VPNs</a>  |
| MPLS VPN—Carrier Supporting Carrier                                | This feature enables you to create an MPLS VPN CSC network that uses LDP to transport MPLS labels and an IGP to transport routes.  | <a href="#">MPLS VPN Carrier Supporting Carrier Using LDP and an IGP</a>   |
| MPLS VPN Carrier Supporting Carrier—IPv4 BGP Label Distribution    | This feature enables you to create an MPLS VPN CSC network that uses BGP to transport routes and MPLS labels.  | <a href="#">MPLS VPN Carrier Supporting Carrier with BGP</a>   |
| MPLS VPN Half-Duplex VRF   | This feature allows you to configure an MPLS hub-and-spoke VPN that is more scalable than previously.  | <a href="#">Configuring Scalable Hub-and-Spoke MPLS VPNs</a>   |
| MPLS VPN ID  | This feature enables you to identify MPLS VPNs by a VPN identification number, as described in RFC 2685.   | <a href="#">Assigning an ID Number to a VPN</a>  |
| MPLS VPN: Inter-AS—IPv4 BGP Label Distribution                     | This feature explains how to configure an MPLS VPN Inter-AS network so that the ASBRs exchange IPv4 routes with MPLS labels of the PE routers. Route reflectors exchange VPNv4 routes by using multihop, multiprotocol eBGP.   | <a href="#">MPLS VPN Inter-AS with ASBRs Exchanging IPv4 Routes and MPLS Labels</a>  |
| MPLS VPN—Loadbalancing Support for Inter-AS and CSC VPNs           | This feature allows MPLS VPN Inter-AS and MPLS VPN CSC networks to load share traffic between adjacent LSRs that are connected by multiple links. The LSRs can be a pair of ASBRs or a CSC-PE and a CSC-CE. Using directly connected loopback peering allows load sharing at the IGP level, so more than one BGP session is not needed between the LSRs. No other label distribution mechanism is needed between the adjacent LSRs than BGP. | <a href="#">Load Sharing MPLS VPN Traffic</a>  |
| MPLS VPN—MIB Support   | This feature allows you to monitor and manage MPLS VPNs using MIBs.  | <a href="#">Monitoring MPLS VPNs with MIBs</a>   |
| MPLS VPN — OSPF and Sham-Link Support                              | This feature allows you to configure a sham-link that directs traffic between VPN client sites over the MPLS VPN backbone.   | <a href="#">Ensuring That MPLS VPN Clients Using OSPF Communicate over the MPLS VPN Backbone Instead of Through Backdoor Links</a> |
| MPLS VPN Support for EIGRP Between Provider Edge and Customer Edge | This feature allows you to connect customers running EIGRP to an MPLS VPN.   | <a href="#">Configuring MPLS Layer 3 VPNs</a>  |

**Table 1** Supported MPLS VPN Features (continued)

| Feature Name                                       | Feature Description   | Where Documented  |
|--|---|---|
| MPLS VPN: VRF Selection Based on Source IP Address | This feature enables you to direct MPLS VPN traffic based on the source IP address of the packet.   | <a href="#">Directing MPLS VPN Traffic Using a Source IP Address</a>  |
| MPLS VPN—VRF Selection Using Policy Based Routing  | This feature allows you to classify and forward VPN traffic based on match criteria, such as IP access lists, IP prefix lists, and packet length. | <a href="#">Directing MPLS VPN Traffic Using Policy-Based Routing</a> |
| VRF Aware MPLS Static Labels                       | This feature enable an MPLS VPN CSC network to use static labels at the edge of the VPN.  | <a href="#">MPLS LDP—VRF-Aware Static Labels</a>                      |

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