New and Changed Information

This section provides release-specific information for each new and changed feature in the *Cisco Nexus 7000 Series NX-OS MPLS Configuration Guide*.

Table 1 summarizes the new and changed features for the Cisco Nexus 7000 Series NX-OS MPLS Configuration Guide and tells you where they are documented.Yur software release might not support all the features in this document. For the latest caveats and feature information, see the Bug Search Tool at https://tools.cisco.com/bugsearch/ and the release notes for your software release.

Table i-1 New and Changed Information for MPLS

Feature	Description	Changed in Release	Where Documented
MPLS TE event logging	Added support for logging the LSP and FRR events	7.3(0)D1(1)	Chapter 11, "Logging Label Switched Path (LSP) Events" Chapter 11, "Logging Fast Reroute (FRR) Events"
MPLS TE Cost Limit	Added support for configuring cost limit for TE tunnels.	7.3(0)D1(1)	Chapter 11, "Configuring Cost Limit"
InterAS Option B	This feature was enhanced with the InterAS option B and InterAS option B (with RFC 3107) provisions. An IBGP VPNv4/v6 session between DC edge routers and an EBGP VPNv4/v6 session between DC edge routers and WAN routers can be established without a per VRF iBGP session between DC edge routers..	7.2(0)D1(1)	Chapter 26, "InterAS Option B"
Configuring Automatic Bandwidth Adjustment for MPLS TE Tunnels	Added information about automatic bandwidth adjustment for MPLS TE tunnels.	6.2(6)	Chapter 12, "Configuring Automatic Bandwidth Adjustment for MPLS TE Tunnels"
Any Transport over MPLS	Added Any Transport over MPLS (AToM), which accommodates different types of Layer 2 packets, including Ethernet and VLAN, to enable the service provider to transport different types of traffic over the backbone and accommodate all types of customers.	6.2(2)	Chapter 27, "Configuring Any Transport over MPLS"

Table i-1 New and Changed Information for MPLS (continued)

Feature	Description	Changed in Release	Where Documented
Any Transport over MPLS Pseudowire provisioning	Added pseudowire provisioning for AToM. This feature enables you to configure static pseudowires in cases where you cannot use directed control protocols, such as the Label Distribution Protocol or Resource Reservation Protocol over traffic-engineered tunnels (RSVP-TE).	6.2(2)	Chapter 28, "Configuring Any Transport over MPLS Pseudowire Provisioning"
Ethernet over Multiprotocol Label Switching	Added Ethernet over Multiprotocol Label Switching (EoMPLS), which is a Virtual Private Wire Service (VPWS) that is used to carry Layer 2 Ethernet frames over an MPLS network. EoMPLS enables service providers to offer emulated Ethernet services over existing MPLS networks.	6.2(2)	Chapter 29, "Configuring Ethernet over MPLS"
EoMPLS Graceful Restart	Added support for a switch that is configured with the Label Distribution Protocol (LDP) Graceful Restart (GR) to assist its neighboring switches recover gracefully from an interruption in service.	6.2(2)	Chapter 30, "Configuring EoMPLS Layer 2 VPN Graceful Restart"
Layer 2 and Layer 3 load balancing co-existence	Added Layer 3 VPN and Layer 2 VPN forwarding that is performed independently on the switch using two different types of adjacencies. The forwarding is not be impacted by having a different method of load balancing for the Layer 2 VPN.	6.2(2)	Chapter 24, "Configuring MPLS Layer 3 VPN Load Balancing"
MPLS LSP Ping/Traceroute for LDP/TE and LSP Ping for VCCV	Added support for Virtual Circuit Connectivity Verification (VCCV) in Layer 2 VPN Operations, Administration, and Maintenance (OAM).	6.2(2)	Chapter 35, "Verifying Connectivity with MPLS LSP Ping and Traceroute"
MPLS over GRE	Added a mechanism for tunneling Multiprotocol Label Switching (MPLS) packets over a non-MPLS network.	6.2(2)	Chapter 25, "Configuring MPLS over GRE"
OSPF Sham-Link Support for MPLS VPN	Added a sham-link to connect VPN client sites that run Open Shortest Path First (OSPF) and share back door OSPF links in a Multiprotocol Label Switching (MPLS) VPN configuration.	6.2(2)	Chapter 22, "Configuring MPLS Layer 3 VPNs"
Virtual Private LAN Service	Added a point-to-multipoint service between multiple customer sites using a mesh of point-to-point pseudowires over the provider core to emulate a LAN between the sites.	6.2(2)	Chapter 31, "Configuring Virtual Private LAN Service"
VPLS VPN Pseudowire Redundancy	Added support for detecting a failure in the network and rerouting the Layer 2 service to another endpoint that can continue to provide the service.	6.2(2)	Chapter 32, "Configuring Layer 2 VPN Pseudowire Redundancy"

Table i-1 New and Changed Information for MPLS (continued)

Feature	Description	Changed in Release	Where Documented
VPLS Dual-Homing with a vPC	Added support for integrating Virtual Private LAN (VPLS) with the virtual port channel (vPC) functionality in active-standby mode.	6.2(2)	Chapter 33, "Configuring Layer 2 VPN VPLS Dual-Homing with a vPC"
MPLS	Added support for M2 Series modules.	6.1(1)	Chapter 1, "Overview"
MPLS static label binding	Changed the maximum value for the MPLS static label range to 471804.	6.1(1)	Chapter 9, "Configuring MPLS Static Label Binding"
MVPNs	Added support for multicast GRE tunnel interfaces for PE-CE routing with MVPN.	6.1(1)	Chapter 34, "Configuring MVPNs"
MPLS	F2 Series modules do not support MPLS.	6.0(1)	Chapter 1, "Overview"
MPLS Layer 3 VPNs	Added matching and setting support for import maps on standard and extended communities for Cisco NX-OS Release 5.2(7) and later 5.2 releases.	5.2(7)	Chapter 22, "Configuring MPLS Layer 3 VPNs"
MPLS Layer 3 VPNs	Removed the MPLS license requirement for the EIGRP site of origin feature.	5.2(5)	Chapter 22, "Configuring MPLS Layer 3 VPNs"
MVPNs	Added support for multicast GRE tunnel interfaces for PE-CE routing with MVPN.	5.2(4)	Chapter 34, "Configuring MVPNs"
MPLS	MPLS was introduced as a feature of Cisco NX-OS software for Nexus 7000 Series switches.	5.2(1)	