

Cisco_IOS_XE_IPv6_Feature_Mapping

This table lists the platform-independent IPv6 features supported in the Cisco IOS XE software release trains. It also identifies the earliest release for each software release train in which the feature became available. Unless noted otherwise, subsequent releases of that Cisco IOS XE software release train also support that feature.

Contents

- [1 IPv6 Features](#)
- [2 IPv6 First-Hop Security Features](#)
- [3 IPv6 Switching Services Features](#)
- [4 IPv6 Routing Features](#)
- [5 IPv6 Services and Management Features](#)
- [6 IPv6 Broadband Access Features](#)
- [7 DHCP Features for IPv6](#)
- [8 IPv6 Multicast Features](#)
- [9 IPv6 Tunnel Services Features](#)
- [10 IPv6 Quality of Service Features](#)
- [11 IPv6 High Availability Features](#)
- [12 IPv6 Data Link Layer Features](#)
- [13 Additional Information](#)

IPv6 Features

Feature	IPv6 Implementation Guide	IPv6/IPv4 Dual-Stack Documentation	Cisco IOS XE Release	Cisco IOS XE SE Release
BGP IPv6 PIC Edge for IP/MPLS	Implementing IPv6 VPN over MPLS	?	Cisco IOS XE Release 3.3S	?
CNS Agents for IPv6	Implementing IPv6 for Network Management	IPv6 Embedded Management Components	Cisco IOS XE Release 2.1	?
FTP IPv6 Support	?	?	?	Cisco IOS XE Release 3.2SE
IPv6 for Config Logger	Implementing IPv6 for Network Management	IPv6 Embedded Management Components	Cisco IOS XE Release 2.1	?
IPv6: ICMPv6	Implementing IPv6 Addressing and	ICMP for IPv6	Cisco IOS XE	?

Cisco_IOS_XE_IPv6_Feature_Mapping

	<u>Basic Connectivity</u>		Release 2.1	
IPv6 ICMP Rate Limiting	<u>Implementing IPv6 Addressing and Basic Connectivity</u>	<u>IPv6 ICMP Rate Limiting</u>	Cisco IOS XE Release 2.1	?
IPv6: ICMPv6 Redirect	<u>Implementing IPv6 Addressing and Basic Connectivity</u>	<u>ICMP for IPv6 Redirect</u>	Cisco IOS XE Release 2.1	?
IPv6: IPv6 NETCONF Support	<u>Implementing IPv6 for Network Management</u>	<u>IPv6 Embedded Management Components</u>	Cisco IOS XE Release 2.1	?
IPv6: IPv6 Support for TCL	<u>Implementing IPv6 for Network Management</u>	<u>IPv6 Embedded Management Components</u>	Cisco IOS XE Release 2.1	?
IPv6 MTU Path Discovery	<u>Implementing IPv6 Addressing and Basic Connectivity</u>	<u>IPv6 MTU Path Discovery</u>	Cisco IOS XE Release 2.1	?
IPv6 Neighbor Discovery	<u>Implementing IPv6 Addressing and Basic Connectivity</u>	<u>IPv6 Neighbor Discovery</u>	Cisco IOS XE Release 2.1	?
IPv6: Neighbor Discovery Duplicate Address Detection	<u>Implementing IPv6 Addressing and Basic Connectivity</u>	<u>IPv6 Neighbor Discovery</u>	Cisco IOS XE Release 2.1	?
IPv6: Per-Interface Neighbor Discovery Cache Limit	<u>Implementing IPv6 Addressing and Basic Connectivity</u>	<u>IPv6 Neighbor Discovery Cache</u>	Cisco IOS XE Release 2.6	?
IPv6 SOAP	<u>Implementing IPv6 for Network Management</u>	<u>IPv6 Embedded Management Components</u>	Cisco IOS XE Release 2.1	?
IPv6 Stateless Autoconfiguration	<u>Implementing IPv6 Addressing and Basic Connectivity</u>	<u>IPv6 Stateless Autoconfiguration</u>	Cisco IOS XE Release 2.1	?
IPv6 Static Cache Entry for Neighbor Discovery	<u>Implementing IPv6 Addressing and Basic Connectivity</u>	<u>IPv6 Neighbor Discovery Cache</u>	Cisco IOS XE Release 2.1	?
IPv6 Switching: Provider Edge Router over MPLS	<u>Implementing IPv6 over MPLS</u>	<u>IPv6 Switching: Provider Edge Router over MPLS</u>	Cisco IOS XE Release	?

Cisco_IOS_XE_IPv6_Feature_Mapping

			3.1S	
IPv6: syslog over IPv6	<u>Implementing IPv6 for Network Management</u>	<u>IPv6 Embedded Management Components</u>	Cisco IOS XE Release 2.1	?
IPv6 Virtual Fragmentation Reassembly	?	<u>IPv6 Virtual Fragmentation Reassembly</u>	Cisco IOS XE Release 3.4S	?
IPv6 VPN over MPLS	<u>Implementing IPv6 VPN over MPLS</u>	<u>IPv6 VPN over MPLS</u>	Cisco IOS XE Release 3.1S	?
IPv6 VPN over MPLS Inter-AS Options	<u>Implementing IPv6 VPN over MPLS</u>	?	Cisco IOS XE Release 3.1S	?
MPLS VPN 6VPE Support Over IP Tunnels	<u>Implementing IPv6 VPN over MPLS</u>	<u>MPLS VPN 6VPE Support over IP Tunnels</u>	Cisco IOS XE Release 3.1S	?
Remote Access MPLS VPNs	<u>Configuring Managed IPv6 Layer 2 Tunnel Protocol Network Server</u>	?	Cisco IOS XE Release 3.3S	?
Unicast Reverse Path Forwarding for IPv6	<u>Implementing IPv6 Addressing and Basic Connectivity</u>	<u>Unicast Reverse Path Forwarding for IPv6</u>	Cisco IOS XE Release 2.1	?

IPv6 First-Hop Security Features

Feature	IPv6 Implementation Guide	IPv6/IPv4 Dual-Stack Document	Cisco IOS XE Release	Cisco IOS XE SE Release
DHCPv6 Guard	?	<u>DHCPv6 Guard</u>	Cisco IOS XE Release 3.8S	Cisco IOS XE Release 3.2SE
IPv6 Destination Guard	?	<u>IPv6 Destination Guard</u>	Cisco IOS XE Release 3.8S	?
IPv6 Neighbor Discovery Multicast Suppress	?	?	?	Cisco IOS XE Release 3.2SE <u>IPv6 Neighbor Discovery Multicast Suppress</u>

Cisco_IOS_XE_IPv6_Feature_Mapping

IPv6 RA Guard	?	<u>IPv6 RA Guard</u>	Cisco IOS XE Release 3.8S	Cisco IOS XE Release 3.2SE
IPv6 Router Advertisement Throttler	?	?	?	Cisco IOS XE Release 3.2SE <u>IPv6 Router Advertisement Throttler</u>
IPv6 Snooping	?	<u>IPv6 Snooping</u>	Cisco IOS XE Release 3.8S	Cisco IOS XE Release 3.2SE
IPv6 Source Guard and Prefix Guard	?	<u>IPv6 Source Guard and Prefix Guard</u>	Cisco IOS XE Release 3.8S	?

IPv6 Switching Services Features

Feature	IPv6 Implementation Guide	IPv6/IPv4 Dual-Stack Document	Cisco IOS XE Release	Cisco IOS XE SE Release
IPv6 Switching: CEF/dCEF Support	<u>Implementing IPv6 Addressing and Basic Connectivity</u>	<u>IPv6 Switching: Cisco Express Forwarding and Distributed Cisco Express Forwarding Support</u>	Cisco IOS XE Release 2.1	?

IPv6 Routing Features

Feature	IPv6 Implementation Guide	IPv6/IPv4 Dual-Stack Document	Cisco IOS XE Release	Cisco IOS XE SE Release
BFD Support for EIGRP IPv6	?	<u>BFD Support for EIGRP IPv6</u>	Cisco IOS XE Release 3.6S	?
EIGRP IPv6 NSF/GR	?	<u>EIGRP IPv6 NSF/GR</u>	Cisco IOS XE Release 3.6S	?
				?

Cisco_IOS_XE_IPv6_Feature_Mapping

IPv6 NSF and Graceful Restart for MP-BGP IPv6 Address Family	<u>Implementing Multiprotocol BGP for IPv6</u>	<u>IPv6 NSF and Graceful Restart for MP-BGP IPv6 Address Family</u>	Cisco IOS XE Release 3.1S	
IPv6 Policy-Based Routing	<u>Implementing Policy-Based Routing for IPv6</u>	<u>IPv6 Policy-Based Routing</u>	Cisco IOS XE Release 3.2S	?
IPv6 Routing: EIGRP Support	<u>Implementing EIGRP for IPv6</u>	<u>IPv6 Routing: EIGRP Support</u>	Cisco IOS XE Release 2.1	?
IPv6 Routing: IS-IS Local RIB	<u>Implementing IS-IS for IPv6</u>	<u>IPv6 Routing: IS-IS Support for IPv6</u>	Cisco IOS XE Release 2.6	?
IPv6 Routing: IS-IS Multitopology Support for IPv6	<u>Implementing IS-IS for IPv6</u>	<u>IPv6 Routing: IS-IS Multitopology Support for IPv6</u>	Cisco IOS XE Release 2.4	?
IPv6 Routing: IS-IS Support for IPv6	<u>Implementing IS-IS for IPv6</u>	<u>IPv6 Routing: IS-IS Support for IPv6</u>	Cisco IOS XE Release 2.6	?
IPv6 Routing: Multiprotocol BGP Extensions for IPv6	<u>Implementing Multiprotocol BGP for IPv6</u>	<u>IPv6 Routing: Multiprotocol BGP Extensions for IPv6</u>	Cisco IOS XE Release 2.1	?
IPv6 Routing: Multiprotocol BGP Link-Local Address Peering	<u>Implementing Multiprotocol BGP for IPv6</u>	<u>IPv6 Routing: Multiprotocol BGP Link-Local Address Peering</u>	Cisco IOS XE Release 2.1	?
IPv6 Routing: OSPF for IPv6 Authentication Support with IPsec	<u>Implementing OSPF for IPv6</u>	<u>IPv6 Routing: OSPF for IPv6 Authentication Support with IPsec</u>	Cisco IOS XE Release 3.5S	?
IPv6 Routing: OSPF for IPv6 (OSPFv3)	<u>Implementing OSPF for IPv6</u>	<u>IPv6 Routing: OSPFv3</u>	Cisco IOS XE Release 2.1	?
IPv6 Routing: RIP for IPv6 (RIPng)	<u>Implementing RIP for IPv6</u>	<u>IPv6 Routing: RIP for IPv6</u>	Cisco IOS XE Release 2.1	?
IPv6 Routing: Route Redistribution	<u>Implementing IS-IS for IPv6, Implementing RIP for IPv6</u>	<u>IPv6 Routing: Route Redistribution, IPv6 Routing: Route</u>	Cisco IOS XE Release 2.1	?

Cisco_IOS_XE_IPv6_Feature_Mapping

		<u>Redistribution</u>		
IPv6 Routing: Static Routing	<u>Implementing Static Routes for IPv6</u>	<u>IPv6 Routing: Static Routing</u>	Cisco IOS XE Release 2.1	?
IS-IS IPv6 Administrative Tag	?	<u>IS-IS IPv6 Administrative Tag</u>	Cisco IOS XE Release 3.6S	?
IS-IS IPv6 Advertise Passive Only	?	<u>IS-IS IPv6 Advertise Passive Only</u>	Cisco IOS XE Release 3.6S	?
ISIS IPv6 Client for BFD	?	<u>ISIS IPv6 Client for BFD</u>	Cisco IOS XE Release 3.7S	?
OSPFv3 Address Families	<u>Implementing OSPF for IPv6</u>	<u>OSPFv3 Address Families</u>	Cisco IOS XE Release 2.1	?
OSPFv3 External Path Preference Option	<u>Implementing OSPF for IPv6</u>	<u>OSPFv3 External Path Preference Option</u>	Cisco IOS XE Release 3.4S	?
OSPFv3 Fast Convergence: LSA and SPF Throttling	<u>Implementing OSPF for IPv6</u>	<u>OSPFv3 Fast Convergence: LSA and SPF Throttling</u>	Cisco IOS XE Release 2.1	Cisco IOS XE Release 3.2SE
OSPFv3 for BFD	<u>Implementing OSPF for IPv6, Implementing Bidirectional Forwarding Detection for IPv6</u>	<u>OSPFv3 for BFD</u>	Cisco IOS XE Release 2.1	?
OSPFv3 Graceful Restart	<u>Implementing OSPF for IPv6</u>	<u>OSPFv3 Graceful Restart</u>	Cisco IOS XE Release 2.1	?
OSPFv3 Max-Metric Router LSA	<u>Implementing OSPF for IPv6</u>	<u>OSPFv3 Max-Metric Router LSA</u>	Cisco IOS XE Release 3.4S	?
OSPFv3 MIB	?	<u>OSPFv3 MIB</u>	Cisco IOS XE Release 3.7S	?

Cisco_IOS_XE_IPv6_Feature_Mapping

OSPFv3 NSR	?	<u>OSPFv3 NSR</u>	Cisco IOS XE Release 3.7S	?
OSPFv3 <u>RFC 3101</u> Support	?	<u>OSPFv3 RFC 3101 Support</u>	Cisco IOS XE Release 3.7S	?
Static Route Support for BFD over IPv6	<u>Implementing Bidirectional Forwarding Detection for IPv6</u>	<u>Static Route Support for BFD over IPv6</u>	Cisco IOS XE Release 2.1	?
TTL Security Support for OSPF on IPv6	?	<u>TTL Security Support for OSPF on IPv6</u>	Cisco IOS XE Release 3.7S	?

IPv6 Services and Management Features

Feature	IPv6 Implementation Guide	IPv6/IPv4 Dual-Stack Document	Cisco IOS XE Release	Cisco IOS XE SE Release
HSRP for IPv6	<u>Configuring First Hop Redundancy Protocols in IPv6</u>	<u>HSRP for IPv6</u>	Cisco IOS XE Release 3.1S	?
HSRP: Global IPv6 Address	?	?	?	Cisco IOS XE Release 3.2SE <u>HSRP: Global IPv6 Address</u>
IP SLAs for IPv6	<u>Implementing IPv6 for Network Management</u>	<u>IP SLAs for IPv6</u>	Cisco IOS XE Release 2.1	?
IPv6 ACL Extensions for Hop by Hop Filtering	?	<u>IPv6 ACL Extensions for Hop by Hop Filtering</u>	Cisco IOS XE Release 3.6S	?
IPv6 ACL: Template ACL	<u>Implementing Traffic Filters and Firewalls for IPv6 Security</u>	<u>IPv6 ACL - Template ACL</u>	Cisco IOS XE Release 2.1	?

Cisco_IOS_XE_IPv6_Feature_Mapping

IPv6 IPsec Static Virtual Interface	<u>Implementing IPsec in IPv6 Security</u>	<u>IPv6 Virtual Tunnel Interface</u>	Cisco IOS XE Release 2.4	?
IPv6 PACL Support	<u>Implementing IPv6 for Network Management</u>	<u>IP SLAs for IPv6</u>	Cisco IOS XE Release 2.1	Cisco IOS XE Release 3.2SE <u>IPv6 PACL Support</u>
IPv6 Remote Access for IPsec VPN	-	<u>Configuring the FlexVPN Client</u>	Cisco IOS XE Release 3.8S	?
IPv6 Services: AAAA DNS Lookups Over an IPv4 Transport	<u>Implementing IPv6 Addressing and Basic Connectivity</u>	<u>IPv6 Services: AAAA DNS Lookups Over an IPv4 Transport</u>	Cisco IOS XE Release 2.1	?
IPv6 Services: Cisco Discovery Protocol: IPv6 Address Family Support for Neighbor Information	<u>Implementing IPv6 Addressing and Basic Connectivity</u>	<u>IPv6 Addressing and Basic Connectivity</u>	Cisco IOS XE Release 2.1	?
IPv6 Services: DNS Lookups Over an IPv6 Transport	<u>Implementing IPv6 Addressing and Basic Connectivity</u>	<u>IPv6 Services: AAAA DNS Lookups Over an IPv4 Transport</u>	Cisco IOS XE Release 2.1	?
IPv6 Services: Extended Access Control Lists	<u>Implementing Traffic Filters and Firewalls for IPv6 Security</u>	<u>IPv6 Access Control Lists</u>	Cisco IOS XE Release 2.1	?
IPv6 Services: <u>RFC 4293</u> IP-MIB (IPv6 only) and <u>RFC 4292</u> IP-FORWARD-MIB (IPv6 only)	<u>Implementing IPv6 for Network Management</u>	<u>IPv6 MIBs</u>	Cisco IOS XE Release 2.1	?
IPv6 Services: Secure Shell (SSH) Support Over IPv6	<u>Implementing IPv6 for Network Management</u>	<u>SSH Support Over IPv6</u>	Cisco IOS XE Release 2.1	?
IPv6 Services: Standard Access Control Lists	<u>Implementing Traffic Filters and Firewalls for IPv6 Security</u>	<u>IPv6 Access Control Lists</u>	Cisco IOS XE Release 2.1	?
IPv6 Services: SNMP over IPv6	<u>Implementing IPv6 for Network</u>	<u>SNMP Over IPv6</u>	Cisco IOS XE	?

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	<u>Management</u>		Release 2.1	
ISSU: HSRPv6 on VRF Interfaces	<u>Configuring First Hop Redundancy Protocols in IPv6</u>	<u>HSRP for IPv6</u>	Cisco IOS XE Release 3.1S	?
NSF/SSO: HSRPv6 on VRF Interfaces	<u>Configuring First Hop Redundancy Protocols in IPv6</u>	<u>HSRP for IPv6</u>	Cisco IOS XE Release 3.1S	?
Zone-Based Policy Firewall IPv6 Support	?	<u>Zone-Based Policy Firewall IPv6 Support</u>	Cisco IOS XE Release 3.6S	?

IPv6 Broadband Access Features

Feature	IPv6 Implementation Guide	IPv6/IPv4 Dual-Stack Document	Cisco IOS XE Release	Cisco IOS XE SE Release
AAA Improvements for Broadband IPv6	<u>Implementing ADSL for IPv6</u>	<u>AAA Improvements for Broadband IPv6</u>	Cisco IOS XE Release 2.5	?
Broadband IPv6 Counter Support at LNS	<u>Implementing ADSL for IPv6</u>	<u>Broadband IPv6 Counter Support at LNS</u>	Cisco IOS XE Release 2.6	?
DHCP Enhancements to Support IPv6 Broadband Deployments	<u>Implementing ADSL for IPv6</u>	<u>DHCP for IPv6 Broadband</u>	Cisco IOS XE Release 2.5	?
DHCPv6 Prefix Delegation RADIUS VSA	<u>Implementing ADSL for IPv6</u>	?	Cisco IOS XE Release 2.5	?
IPv6 Access Services: AAA Support for Cisco VSA IPv6 Attributes	<u>Implementing ADSL for IPv6</u>	<u>AAA Support for IPv6</u>	Cisco IOS XE Release 2.5	?
IPv6 Access Services: AAA Support for <u>RFC 3162</u> IPv6 RADIUS Attributes	<u>Implementing ADSL for IPv6</u>	<u>AAA Support for IPv6</u>	Cisco IOS XE Release 2.5	?
IPv6 Access Services: PPPoA	<u>Implementing ADSL for IPv6</u>	?	Cisco IOS XE	?

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			Release 3.3S	
IPv6 Access Services: PPPoE	Implementing ADSL for IPv6	?	Cisco IOS XE Release 2.5	?
IPv6 Access Services: RBE	Implementing IPv6 Addressing and Basic Connectivity	?	Cisco IOS XE Release 3.2S	?
PPP Enhancement for Broadband IPv6	Implementing ADSL for IPv6	?	Cisco IOS XE Release 2.5	?
PPP: IPv6 Accounting Delay Enhancements	Implementing ADSL for IPv6	?	Cisco IOS XE Release 3.2S	?
RADIUS over IPv6	Implementing ADSL for IPv6	AAA Support for IPv6	Cisco IOS XE Release 3.2S	?
SSO: PPPoE IPv6	Implementing ADSL for IPv6	?	Cisco IOS XE Release 2.5	?
TACACS+ over IPv6	Implementing ADSL for IPv6	TACACS+ over IPv6	Cisco IOS XE Release 3.2S	?

DHCP Features for IPv6

Feature	IPv6 Implementation Guide	IPv6/IPv4 Dual-Stack Document	Cisco IOS XE Release	Cisco IOS XE SE Release
DHCPv6 Ethernet Remote ID Option	Implementing DHCP for IPv6	IPv6 Access Services: DHCPv6 Relay Agent	Cisco IOS XE Release 2.1	?
DHCPv6 Relay: MPLS VPN Support	Implementing DHCP for IPv6	DHCPv6 Relay and Server - MPLS VPN Support	Cisco IOS XE Release 3.3S	?
DHCPv6 Relay: Reload Persistent Interface ID Option	Implementing DHCP for IPv6	IPv6 Access Services: DHCPv6 Relay Agent	Cisco IOS XE Release 2.1	?

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DHCPv6 Server: MPLS VPN Support	<u>Implementing DHCP for IPv6</u>	<u>DHCPv6 Relay and Server - MPLS VPN Support</u>	Cisco IOS XE Release 3.3S	?
IPv6 Access Services: DHCPv6 Prefix Delegation	<u>Implementing DHCP for IPv6</u>	<u>IPv6 Access Services: DHCPv6 Relay Agent</u>	Cisco IOS XE Release 2.1	?
IPv6 Access Services: DHCPv6 Relay Agent	<u>Implementing DHCP for IPv6</u>	<u>IPv6 Access Services: DHCPv6 Relay Agent</u>	Cisco IOS XE Release 2.1	?
IPv6 Access Services: DHCPv6 Relay Agent Notification for Prefix Delegation	<u>Implementing DHCP for IPv6</u>	<u>IPv6 Access Services: DHCPv6 Relay Agent</u>	Cisco IOS XE Release 2.1	?
IPv6 Access Services: Stateless DHCPv6	<u>Implementing DHCP for IPv6</u>	<u>IPv6 Access Services: Stateless DHCPv6</u>	Cisco IOS XE Release 2.5	?

IPv6 Multicast Features

Feature	IPv6 Implementation Guide	IPv6/IPv4 Dual-Stack Document	Cisco IOS XE Release	Cisco IOS XE SE Release
Distributed MFIB for IPv6 Multicast	<u>Implementing IPv6 Multicast</u>	<u>Distributed MFIB for IPv6 Multicast</u>	Cisco IOS XE Release 2.4	?
IPv6 Bidirectional PIM	<u>Implementing IPv6 Multicast</u>	<u>IPv6 Bidirectional PIM</u>	Cisco IOS XE Release 2.1	?
IPv6 BSR: Configure RP Mapping	<u>Implementing IPv6 Multicast</u>	<u>Configuring IP Multicast in IPv6 Networks</u>	Cisco IOS XE Release 2.4	?
IPv6 Multicast	<u>Implementing IPv6 Multicast</u>	<u>Configuring IP Multicast in IPv6 Networks</u>	Cisco IOS XE Release 2.1	?
IPv6 Multicast Address Family Support for Multiprotocol BGP	<u>Implementing Multiprotocol BGP for IPv6</u>	<u>IPv6 Multicast Address Family Support for Multiprotocol BGP</u>	Cisco IOS XE Release 2.1	?

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IPv6: Multicast Address Group Range Support	<u>Implementing IPv6 Multicast</u>	<u>Configuring IP Multicast in IPv6 Networks</u>	Cisco IOS XE Release 2.6	?
IPv6 Multicast: Bandwidth-Based Call Admission Control	<u>Implementing IPv6 Multicast</u>	<u>IPv6 Multicast: Bandwidth-Based Call Admission Control</u>	Cisco IOS XE Release 2.6	?
IPv6 Multicast: Bootstrap Router	<u>Implementing IPv6 Multicast</u>	<u>Configuring IP Multicast in IPv6 Networks</u>	Cisco IOS XE Release 2.4	?
IPv6 Multicast: IPv6 BSR Bidirectional Support	<u>Implementing IPv6 Multicast</u>	<u>Configuring IP Multicast in IPv6 Networks</u>	Cisco IOS XE Release 2.4	?
IPv6 Multicast: IPv6 BSR Scoped-Zone Support	<u>Implementing IPv6 Multicast</u>	<u>Configuring IP Multicast in IPv6 Networks</u>	Cisco IOS XE Release 2.4	?
IPv6 Multicast: Explicit Tracking of Receivers	<u>Implementing IPv6 Multicast</u>	<u>IPv6 Multicast: Explicit Tracking of Receivers</u>	Cisco IOS XE Release 2.1	?
IPv6 Multicast: MLD Access Group	<u>Implementing IPv6 Multicast</u>	<u>IPv6 Multicast Listener Discovery Protocol</u>	Cisco IOS XE Release 2.1	?
IPv6 Multicast: Multicast Listener Discovery Protocol, Versions 1 and 2	<u>Implementing IPv6 Multicast</u>	<u>IPv6 Multicast Listener Discovery Protocol</u>	Cisco IOS XE Release 2.1	?
IPv6 Multicast: PIM Accept Register	<u>Implementing IPv6 Multicast</u>	<u>IPv6 Multicast: PIM Sparse Mode</u>	Cisco IOS XE Release 2.1	?
IPv6 Multicast: PIM Source-Specific Multicast	<u>Implementing IPv6 Multicast</u>	<u>IPv6 Multicast: PIM Source-Specific Multicast</u>	Cisco IOS XE Release 2.1	?
IPv6 Multicast: PIM Sparse Mode	<u>Implementing IPv6 Multicast</u>	<u>IPv6 Multicast: PIM Sparse Mode</u>	Cisco IOS XE Release 2.4	?
IPv6 Multicast: Routable Address Hello Option	<u>Implementing IPv6 Multicast</u>	<u>IPv6 Multicast: Routable Address Hello Option</u>	Cisco IOS XE Release 2.4	?
				?

Cisco_IOS_XE_IPv6_Feature_Mapping

IPv6 Multicast: Static Multicast Routing for IPv6	Implementing IPv6 Multicast	IPv6 Multicast: Static Multicast Routing for IPv6	Cisco IOS XE Release 2.4	
IPv6 Multicast VRF Lite	Implementing IPv6 Multicast	Configuring IP Multicast in IPv6 Networks	Cisco IOS XE Release 2.6	?
IPv6 PIM Passive	Implementing IPv6 Multicast	IPv6 PIM Passive Mode	Cisco IOS XE Release 2.6	?
IPv6 Source-Specific Multicast Mapping	Implementing IPv6 Multicast	IPv6 Source Specific Multicast Mapping	Cisco IOS XE Release 2.1	?
MLD Group Limits	Implementing IPv6 Multicast	MLD Group Limits	Cisco IOS XE Release 2.6	?
MLDP-Based MVPN	-	MLD-Based MVPN	Cisco IOS XE Release 3.8S	?
PIMv6: Anycast RP Solution	Implementing IPv6 Multicast	Configuring IP Multicast in IPv6 Networks	Cisco IOS XE Release 3.4S	?
Threshold Notification for mCAC Limit	Implementing IPv6 Multicast	IPv6 Multicast: Bandwidth-Based Call Admission Control	Cisco IOS XE Release 2.6	?

IPv6 Tunnel Services Features

Feature	IPv6 Implementation Guide	IPv6/IPv4 Dual-Stack Document	Cisco IOS XE Release	Cisco IOS XE SE Release
IP over IPv6 Tunnels	Implementing Tunneling for IPv6	IP over IPv6 Tunnels	Cisco IOS XE Release 2.1	?
IPv6 Tunneling: 6RD IPv6 Rapid Deployment	Implementing Tunneling for IPv6	IPv6 Rapid Deployment	Cisco IOS XE Release 3.1S	?
IPv6 Tunneling: Automatic 6to4 Tunnels	Implementing Tunneling for IPv6	IPv6 Automatic 6to4 Tunnels	Cisco IOS XE Release 2.1	?

Cisco_IOS_XE_IPv6_Feature_Mapping

IPv6 Tunneling: IPv6 over IPv4 GRE Tunnels	<u>Implementing Tunneling for IPv6</u>	<u>IPv6 over IPv4 GRE Tunnels</u>	Cisco IOS XE Release 2.1	?
IPv6 Tunneling: ISATAP Tunnel Support	<u>Implementing Tunneling for IPv6</u>	?	Cisco IOS XE Release 2.1	?
IPv6 Tunneling: Manually Configured IPv6 over IPv4 Tunnels	<u>Implementing Tunneling for IPv6</u>	<u>Manually Configured IPv6 over IPv4 Tunnels</u>	Cisco IOS XE Release 2.1	?

IPv6 Quality of Service Features

Feature	IPv6 Implementation Document	IPv6/IPv4 Dual-Stack Document	Cisco IOS XE Release	Cisco IOS XE SE Release
IPv6 Quality of Service	<u>Implementing QoS for IPv6</u>	<u>IPv6 Quality of Service</u>	Cisco IOS XE Release 2.1	?
IPv6 Full Selective Packet Discard Support	<u>Implementing QoS for IPv6</u>	<u>IPv6: Selective Packet Discard</u>	Cisco IOS XE Release 3.6S	?
IPv6 QoS: MQC Packet Classification	<u>Implementing QoS for IPv6</u>	<u>IPv6 QoS: MQC Packet Classification</u>	Cisco IOS XE Release 2.1	?
IPv6 QoS: MQC Traffic Shaping	<u>Implementing QoS for IPv6</u>	<u>IPv6 QoS: MQC Traffic Shaping</u>	Cisco IOS XE Release 2.1	?
IPv6 QoS: MQC Traffic Policing	<u>Implementing QoS for IPv6</u>	<u>IPv6 QoS: MQC Traffic Policing</u>	Cisco IOS XE Release 2.1	?
IPv6 QoS: MQC Packet Marking/Remarking	<u>Implementing QoS for IPv6</u>	<u>IPv6 QoS: MQC Packet Marking/Remarking</u>	Cisco IOS XE Release 2.1	?
IPv6 QoS: Queueing	<u>Implementing QoS for IPv6</u>	<u>IPv6 QoS: Queueing</u>	Cisco IOS XE Release 2.1	?
IPv6 QoS: MQC WRED-Based Drop	<u>Implementing QoS for IPv6</u>	<u>IPv6 QoS: MQC WRED-Based Drop</u>	Cisco IOS XE Release	?

IPv6 High Availability Features

Feature	IPv6 Implementation Document	IPv6/IPv4 Dual-Stack Document	Cisco IOS XE Release	Cisco IOS XE SE Release
IPv6: Base Protocols High Availability	Implementing IPv6 Addressing and Basic Connectivity	?	Cisco IOS XE Release 2.1	?
IPv6 NSF and Graceful Restart for MP-BGP IPv6 Address Family	?	IPv6 NSF and Graceful Restart for MP-BGP IPv6 Address Family	Cisco IOS XE Release 2.1	?
IPv6 Routing: RIPng Nonstop Forwarding	Implementing RIP for IPv6	IPv6: RIPng Non-Stop Forwarding	Cisco IOS XE Release 2.1	?
OSPFv3 Graceful Restart	Implementing OSPF for IPv6	?	Cisco IOS XE Release 2.1	?

IPv6 Data Link Layer Features

Feature	IPv6 Implementation Document	IPv6/IPv4 Dual-Stack Document	Cisco IOS XE Release	Cisco IOS XE SE Release
IPv6 Data Link: Fast Ethernet	Implementing IPv6 Addressing and Basic Connectivity	?	Cisco IOS XE Release 2.1	?
IPv6 Data Link: Frame Relay PVC	Implementing IPv6 Addressing and Basic Connectivity	?	Cisco IOS XE Release 2.1	?
IPv6 Data Link: High-Level Data Link Control	Implementing IPv6 Addressing and Basic Connectivity	?	Cisco IOS XE Release 2.1	?
IPv6 Data Link: PPP Service Over Packet over SONET, ISDN, and Serial Interfaces	Implementing IPv6 Addressing and Basic Connectivity	?	Cisco IOS XE Release 2.1	?
		?		?

IPv6 Data Link: VLANs Using IEEE 802.1Q Encapsulation	<u>Implementing IPv6 Addressing and Basic Connectivity</u>		Cisco IOS XE Release 2.1	
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Additional Information

- [Cisco IOS XE 3S Configuration Guides](#)
- [Cisco IPv6 Knowledge Base Portal](#)
- [Cisco IPv6 Main Page](#)
- [IPv6 Configuration Guide, Cisco IOS XE Release 3S](#)