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.

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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	?

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

			3.1S	
IPv6: syslog over IPv6	Implementing IPv6 for Network Management	IPv6 Embedded Management Components	Cisco IOS XE Release 2.1	?
IPv6 Virtual Fragmentation Reassembly	?	IPv6 Virtual Fragmentation Reassembly	Cisco IOS XE Release 3.4S	?
IPv6 VPN over MPLS	Implementing IPv6 VPN over MPLS	IPv6 VPN over MPLS	Cisco IOS XE Release 3.1S	?
IPv6 VPN over MPLS Inter-AS Options	Implementing IPv6 VPN over MPLS	?	Cisco IOS XE Release 3.1S	?
MPLS VPN 6VPE Support Over IP Tunnels	Implementing IPv6 VPN over MPLS	MPLS VPN 6VPE Support over IP Tunnels	Cisco IOS XE Release 3.1S	?
Remote Access MPLS VPNs	Configuring Managed IPv6 Layer 2 Tunnel Protocol Network Server	?	Cisco IOS XE Release 3.3S	?
Unicast Reverse Path Forwarding for IPv6	Implementing IPv6 Addressing and Basic Connectivity	Unicast Reverse Path Forwarding for IPv6	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	?	DHCPv6 Guard	Cisco IOS XE Release 3.8S	Cisco IOS XE Release 3.2SE
IPv6 Destination Guard	?	IPv6 Destination Guard	Cisco IOS XE Release 3.8S	?
IPv6 Neighbor Discovery Multicast Suppress	?	?	?	Cisco IOS XE Release 3.2SE IPv6 Neighbor Discovery Multicast Suppress

IPv6 RA Guard	?	IPv6 RA Guard	Cisco IOS XE Release 3.8S	Cisco IOS XE Release 3.2SE
IPv6 Router Advertisement Throttler	?	?	?	Cisco IOS XE Release 3.2SE IPv6 Router Advertisement Throttler
IPv6 Snooping	?	IPv6 Snooping	Cisco IOS XE Release 3.8S	Cisco IOS XE Release 3.2SE
IPv6 Source Guard and Prefix Guard	?	IPv6 Source Guard and Prefix Guard	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	Implementing IPv6 Addressing and Basic Connectivity	IPv6 Switching: Cisco Express Forwarding and Distributed Cisco Express Forwarding Support	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	?	BFD Support for EIGRP IPv6	Cisco IOS XE Release 3.6S	?
EIGRP IPv6 NSF/GR	?	EIGRP IPv6 NSF/GR	Cisco IOS XE Release 3.6S	?
				?

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

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

OSPFv3 NSR	?	OSPFv3 NSR	Cisco IOS XE Release 3.7S	?
OSPFv3 RFC 3101 Support	?	OSPFv3 RFC 3101 Support	Cisco IOS XE Release 3.7S	?
Static Route Support for BFD over IPv6	Implementing Bidirectional Forwarding Detection for IPv6	Static Route Support for BFD over IPv6	Cisco IOS XE Release 2.1	?
TTL Security Support for OSPF on IPv6	?	TTL Security Support for OSPF on IPv6	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	Configuring First Hop Redundancy Protocols in IPv6	HSRP for IPv6	Cisco IOS XE Release 3.1S	?
HSRP: Global IPv6 Address	?	?	?	Cisco IOS XE Release 3.2SE HSRP: Global IPv6 Address
IP SLAs for IPv6	Implementing IPv6 for Network Management	IP SLAs for IPv6	Cisco IOS XE Release 2.1	?
IPv6 ACL Extensions for Hop by Hop Filtering	?	IPv6 ACL Extensions for Hop by Hop Filtering	Cisco IOS XE Release 3.6S	?
IPv6 ACL: Template ACL	Implementing Traffic Filters and Firewalls for IPv6 Security	IPv6 ACL - Template ACL	Cisco IOS XE Release 2.1	?

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

	Management		Release 2.1	
ISSU: HSRPv6 on VRF Interfaces	Configuring First Hop Redundancy Protocols in IPv6	HSRP for IPv6	Cisco IOS XE Release 3.1S	?
NSF/SSO: HSRPv6 on VRF Interfaces	Configuring First Hop Redundancy Protocols in IPv6	HSRP for IPv6	Cisco IOS XE Release 3.1S	?
Zone-Based Policy Firewall IPv6 Support	?	Zone-Based Policy Firewall IPv6 Support	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	Implementing ADSL for IPv6	AAA Improvements for Broadband IPv6	Cisco IOS XE Release 2.5	?
Broadband IPv6 Counter Support at LNS	Implementing ADSL for IPv6	Broadband IPv6 Counter Support at LNS	Cisco IOS XE Release 2.6	?
DHCP Enhancements to Support IPv6 Broadband Deployments	Implementing ADSL for IPv6	DHCP for IPv6 Broadband	Cisco IOS XE Release 2.5	?
DHCPv6 Prefix Delegation RADIUS VSA	Implementing ADSL for IPv6	?	Cisco IOS XE Release 2.5	?
IPv6 Access Services: AAA Support for Cisco VSA IPv6 Attributes	Implementing ADSL for IPv6	AAA Support for IPv6	Cisco IOS XE Release 2.5	?
IPv6 Access Services: AAA Support for RFC 3162 IPv6 RADIUS Attributes	Implementing ADSL for IPv6	AAA Support for IPv6	Cisco IOS XE Release 2.5	?
IPv6 Access Services: PPPoA	Implementing ADSL for IPv6	?	Cisco IOS XE	?

			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	?

DHCPv6 Server: MPLS VPN Support	Implementing DHCP for IPv6	DHCPv6 Relay and Server - MPLS VPN Support	Cisco IOS XE Release 3.3S	?
IPv6 Access Services: DHCPv6 Prefix Delegation	Implementing DHCP for IPv6	IPv6 Access Services: DHCPv6 Relay Agent	Cisco IOS XE Release 2.1	?
IPv6 Access Services: DHCPv6 Relay Agent	Implementing DHCP for IPv6	IPv6 Access Services: DHCPv6 Relay Agent	Cisco IOS XE Release 2.1	?
IPv6 Access Services: DHCPv6 Relay Agent Notification for Prefix Delegation	Implementing DHCP for IPv6	IPv6 Access Services: DHCPv6 Relay Agent	Cisco IOS XE Release 2.1	?
IPv6 Access Services: Stateless DHCPv6	Implementing DHCP for IPv6	IPv6 Access Services: Stateless DHCPv6	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	Implementing IPv6 Multicast	Distributed MFIB for IPv6 Multicast	Cisco IOS XE Release 2.4	?
IPv6 Bidirectional PIM	Implementing IPv6 Multicast	IPv6 Bidirectional PIM	Cisco IOS XE Release 2.1	?
IPv6 BSR: Configure RP Mapping	Implementing IPv6 Multicast	Configuring IP Multicast in IPv6 Networks	Cisco IOS XE Release 2.4	?
IPv6 Multicast	Implementing IPv6 Multicast	Configuring IP Multicast in IPv6 Networks	Cisco IOS XE Release 2.1	?
IPv6 Multicast Address Family Support for Multiprotocol BGP	Implementing Multiprotocol BGP for IPv6	IPv6 Multicast Address Family Support for Multiprotocol BGP	Cisco IOS XE Release 2.1	?

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

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	?

IPv6 Tunneling: IPv6 over IPv4 GRE Tunnels	Implementing Tunneling for IPv6	IPv6 over IPv4 GRE Tunnels	Cisco IOS XE Release 2.1	?
IPv6 Tunneling: ISATAP Tunnel Support	Implementing Tunneling for IPv6	?	Cisco IOS XE Release 2.1	?
IPv6 Tunneling: Manually Configured IPv6 over IPv4 Tunnels	Implementing Tunneling for IPv6	Manually Configured IPv6 over IPv4 Tunnels	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	Implementing QoS for IPv6	IPv6 Quality of Service	Cisco IOS XE Release 2.1	?
IPv6 Full Selective Packet Discard Support	Implementing QoS for IPv6	IPv6: Selective Packet Discard	Cisco IOS XE Release 3.6S	?
IPv6 QoS: MQC Packet Classification	Implementing QoS for IPv6	IPv6 QoS: MQC Packet Classification	Cisco IOS XE Release 2.1	?
IPv6 QoS: MQC Traffic Shaping	Implementing QoS for IPv6	IPv6 QoS: MQC Traffic Shaping	Cisco IOS XE Release 2.1	?
IPv6 QoS: MQC Traffic Policing	Implementing QoS for IPv6	IPv6 QoS: MQC Traffic Policing	Cisco IOS XE Release 2.1	?
IPv6 QoS: MQC Packet Marking/Remarking	Implementing QoS for IPv6	IPv6 QoS: MQC Packet Marking/Remarking	Cisco IOS XE Release 2.1	?
IPv6 QoS: Queueing	Implementing QoS for IPv6	IPv6 QoS: Queueing	Cisco IOS XE Release 2.1	?
IPv6 QoS: MQC WRED-Based Drop	Implementing QoS for IPv6	IPv6 QoS: MQC WRED-Based Drop	Cisco IOS XE Release	?

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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	Implementing IPv6 Addressing and Basic Connectivity		Cisco IOS XE Release 2.1	

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