

Cisco_IOS_IPv6_Feature_Mapping

This table lists the platform-independent IPv6 features supported in Cisco IOS release trains and provides links to platform-independent IPv6/IPv4 dual-stack Configuration Guide documents and IPv6 Implementation Guides.

Note that the IPv6 Implementation Guide, All Releases, column provides links to IPv6 process module documentation. The feature release columns provide the earliest releases for each software train in which the feature became available, as well as links to the IPv6/IPv4 dual-stack feature documentation where applicable. Unless noted otherwise, subsequent releases of that Cisco software release train also support that feature.

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IPv6 Features

Feature	IPv6 Implementation Guide	12.xT/ 15.xT Release	12.xM/15.xM Release	12.2SE Release	12.2SG, 15.xSG, and 3.xSG Release	12.2SR/ 15S Release
Internet Protocol version 6 (IPv6)	Implementing IPv6 Addressing and Basic Connectivity	12.2(2) IPv6 Addressing and Basic Connectivity	12.3 IPv6 Addressing and Basic Connectivity	12.2(25)SEA	12.2(44)SG 3.2SG 15.0(2)SG	12.2(9)S IPv6 Addressing and Basic Connectivity
BGP IPv6 PIC Edge for IP/MPLS	Implementing IPv6 VPN over MPLS	15.2(3)T BGP IPv6 PIC Edge and Core for IP/MPLS	?	?	?	15.2(4)S BGP IPv6 PIC Edge and Core for IP/MPLS
BGP IPv6 Client for Single-Hop BFD	?	?	?	?	?	15.1(2)S Configuring BGP Neighbor Session Options
Enhanced IPv6 Neighbor Discovery Cache	Implementing IPv6 Addressing and Basic	?	?	?	?	?

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Management	<u>Connectivity</u>					
ICMPv6 for IPv6	<u>Implementing IPv6 Addressing and Basic Connectivity</u>	12.2(2) <u>ICMP for IPv6</u>	12.3 <u>ICMP for IPv6</u>	12.2(25)SEA	12.2(25)SG 3.2SG 15.0(2)SG	12.2(33)SRA <u>ICMP for IPv6</u>
IPv6 ACL Extensions for Mobile IPv6	<u>Implementing Mobile IPv6</u>	12.4(2) <u>IPv6 ACL Extensions for Mobile IPv6</u>	15.0 <u>IPv6 ACL Extensions for Mobile IPv6</u>	?	?	12.2(33)SRB <u>IPv6 ACL Extensions for Mobile IPv6</u>
IPv6 Anycast Address	<u>Implementing IPv6 Addressing and Basic Connectivity</u>	12.3(4) <u>IPv6 Anycast Address</u>	12.4 <u>IPv6 Anycast Address</u>	(25)SEA	12.2(25)SG 3.2SG 15.0(2)SG	12.2(33)SRA <u>IPv6 Anycast Address</u>
IPv6: CNS Agents for IPv6	<u>Implementing IPv6 for Network Management</u>	12.4(20) <u>IPv6 CNS Agents</u>	15.0 <u>IPv6 CNS Agents</u>	?	12.2(52)SG 3.2SG 15.0(2)SG	12.2(33)SRC <u>IPv6 CNS Agents</u>
IPv6 Default Router Preference	<u>Implementing IPv6 Addressing and Basic Connectivity</u>	12.4(2) <u>IPv6 Default Router Preference</u>	15.0 <u>IPv6 Default Router Preference</u>	12.2(46)SE	12.2(46)SG 3.2SG 15.0(2)SG	12.2(33)SRA <u>IPv6 Default Router Preference</u>
IPv6: Full Selective Packet Discard Support	<u>Implementing Selective Packet Discard in IPv6</u>	15.1(3) <u>IPv6 Selective Packet Discard</u>	15.2 <u>IPv6 Selective Packet Discard</u>	?	?	?
IPv6: HTTP(S) IPv6 Support (Infrastructure)	<u>Implementing IPv6 for Network Management</u>	12.4(20) <u>IPv6 HTTP(S)</u>	15.0 <u>IPv6 HTTP(S)</u>	12.2(44)SE	12.2(44)SG 3.2SG 15.0(2)SG	12.2(33)SRC <u>IPv6 HTTP(S)</u>
IPv6 ICMP Rate Limiting	<u>Implementing IPv6 Addressing and Basic Connectivity</u>	12.2(8) <u>IPv6 ICMP Rate Limiting</u>	12.3 <u>IPv6 ICMP Rate Limiting</u>	?	?	15.3(1)S <u>IPv6 ICMP Rate Limiting</u>
IPv6: ICMPv6 Redirect	<u>Implementing IPv6 Addressing and Basic Connectivity</u>	12.2(4) <u>ICMP for IPv6 Redirect</u>	12.3 <u>ICMP for IPv6 Redirect</u>	12.2(25)SEA	12.2(25)SG 3.2SG	12.2(33)SRA <u>ICMP for IPv6 Redirect</u>

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					15.0(2)SG	
IPv6: IP SLAs for IPv6	<u>Implementing IPv6 for Network Management</u>	12.4(20) <u>IP SLAs for IPv6</u>	15.0 <u>IP SLAs for IPv6</u>	?	12.2(50)SG 3.2SG 15.0(2)SG	12.2(33)SRC <u>IP SLAs for IPv6</u>
IPv6: IPv6 for Config Logger	<u>Implementing IPv6 for Network Management</u>	12.4(20) <u>IPv6 Embedded Management Components</u>	15.0 <u>IPv6 Embedded Management Components</u>	?	12.2(50)SG 3.2SG 15.0(2)SG	12.2(33)SRC <u>IPv6 Embedded Management Components</u>
IPv6: IPv6 NETCONF Support	<u>Implementing IPv6 for Network Management</u>	12.4(20) <u>IPv6 Embedded Management Components</u>	15.0 <u>IPv6 Embedded Management Components</u>	?	12.2(50)SG 3.2SG 15.0(2)SG	12.2(33)SRC <u>IPv6 Embedded Management Components</u>
IPv6: IPv6 Support in SOAP	<u>Implementing IPv6 for Network Management</u>	12.4(20) <u>IPv6 Embedded Management Components</u>	15.0 <u>IPv6 Embedded Management Components</u>	?	12.2(50)SG 3.2SG 15.0(2)SG	12.2(33)SRC <u>IPv6 Embedded Management Components</u>
IPv6: IPv6 Support for TCL	<u>Implementing IPv6 for Network Management</u>	12.4(20) <u>IPv6 Embedded Management Components</u>	15.0 <u>IPv6 Embedded Management Components</u>	?	12.2(50)SG 3.2SG 15.0(2)SG	12.2(33)SRC <u>IPv6 Embedded Management Components</u>
IPv6: Mobile IPv6 Home Agent	<u>Implementing Mobile IPv6</u>	12.3(14) <u>Mobile IPv6 Home Agent</u>	12.4 <u>Mobile IPv6 Home Agent</u>	?	?	?
IPv6 MTU Path Discovery	<u>Implementing IPv6 Addressing and Basic Connectivity</u>	12.2(2) <u>IPv6 MTU Path Discovery</u>	12.3 <u>IPv6 MTU Path Discovery</u>	12.2(25)SEA	12.2(25)SG 3.2SG 15.0(2)SG	12.2(33)SRA <u>IPv6 MTU Path Discovery</u>
IPv6 Neighbor Discovery	<u>Implementing IPv6 Addressing and Basic Connectivity</u>	12.2(2) <u>IPv6 Neighbor Discovery</u>	12.3 <u>IPv6 Neighbor Discovery</u>	12.2(25)SEA	12.2(25)SG 3.2SG 15.0(2)SG	12.2(33)SRA <u>IPv6 Neighbor Discovery</u>
IPv6: Neighbor Discovery Duplicate Address Detection	<u>Implementing IPv6 Addressing and Basic Connectivity</u>	12.2(4) <u>IPv6 Neighbor Discovery</u>	12.3 <u>IPv6 Neighbor Discovery</u>	12.2(25)SEA	12.2(25)SG 3.2SG 15.0(2)SG	12.2(33)SRA <u>IPv6 Neighbor Discovery</u>

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IPv6 PACL Support	<u>Implementing First Hop Security in IPv6</u>	?	?	(46)	12.2(54)SG 3.2SG 15.0(2)SG	?
IPv6: Per-Interface Neighbor Discovery Cache Limit	<u>Implementing IPv6 Addressing and Basic Connectivity</u>	15.1(3) <u>IPv6 Neighbor Discovery Cache</u>	15.2 <u>IPv6 Neighbor Discovery Cache</u>	?	?	?
IPv6 Selective Packet Discard	<u>Implementing Selective Packet Discard in IPv6</u>	?	?	?	?	12.2(33)SRC
IPv6 Stateless Autoconfiguration	<u>Implementing IPv6 Addressing and Basic Connectivity</u>	12.2(2) <u>IPv6 Stateless Autoconfiguration</u>	12.3 <u>IPv6 Stateless Autoconfiguration</u>	12.2(25)SEA	12.2(25)SG 3.2SG 15.0(2)SG	12.2(33)SRA <u>IPv6 Stateless Autoconfiguration</u>
IPv6 Static Cache Entry for Neighbor Discovery	<u>Implementing IPv6 Addressing and Basic Connectivity</u>	12.2(8) <u>IPv6 Neighbor Discovery Cache</u>	12.3 <u>IPv6 Neighbor Discovery Cache</u>	12.2(25)SEA	12.2(25)SG 3.2SG 15.0(2)SG	12.2(33)SRA <u>IPv6 Neighbor Discovery Cache</u>
IPv6 Support on BVI Interfaces	<u>Implementing IPv6 Addressing and Basic Connectivity</u>	15.1(2)T <u>IPv6 Support on BVI Interfaces</u>	15.2 <u>IPv6 Support on BVI Interfaces</u>	?	?	?
IPv6: syslog over IPv6	<u>Implementing IPv6 for Network Management</u>	12.4(4) <u>IPv6 Embedded Management Components</u>	15.0 <u>IPv6 Embedded Management Components</u>	(44)	12.2(44)SG 3.2SG 15.0(2)SG	12.2(33)SRB
IPv6 Unicast Address	<u>Implementing IPv6 Addressing and Basic Connectivity</u>	12.2(2) <u>IPv6 Unicast Routing</u>	12.3 <u>IPv6 Unicast Routing</u>	12.2(25)SEA	?	12.2(33)SRA <u>IPv6 Unicast Address</u>
IPv6 VPN over MPLS (6VPE)	<u>Implementing IPv6 VPN over MPLS</u>	12.3(4) <u>IPv6 VPN over MPLS</u>	12.4 12.3(4) <u>IPv6 VPN over MPLS</u>	?	?	12.2(25)S <u>IPv6 VPN over MPLS</u>
Mobile IPv6: Basic NEMO	<u>Implementing Mobile IPv6</u>	12.4(20) <u>IPv6 NEMO</u>	15.0 <u>IPv6 NEMO</u>	?	?	?
Mobile IPv6 HA Phase 2	<u>Implementing Mobile IPv6</u>	12.4(11) <u>Implementing</u>	15.0 <u>Implementing Mobile IPv6</u>	?	?	?

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		Mobile IPv6				
MPLS VPN 6VPE Support Over IP Tunnels	<u>Implementing IPv6 VPN over MPLS</u>	?	?	?	?	12.2(33)SRB1 <u>MPLS VPN 6VPE Support Over IP Tunnels</u>
Netflow v9 for IPv6	<u>NetFlow v9 for IPv6</u>	?	?	?	?	12.2(33)SRB <u>Netflow v9 for IPv6</u>
Proxy Mobile IPv6 Support for MAG Functionality	?	?	15.2(4)M <u>Proxy Mobile IPv6 Support for MAG Functionality</u>	?	?	?
TACACS over IPv6	<u>Implementing ADSL and Deploying Dial Access for IPv6</u>	15.2(1) <u>TACACS over IPv6</u>	?	12.2(58)SE	?	15.1(1)S <u>TACACS over IPv6</u>
TFTP IPv6 Support	<u>Implementing IPv6 for Network Management</u>	15.2(1)T <u>IPv6 Support for TFTP</u>	?	?	?	15.1(3)S
Unicast Reverse Path Forwarding for IPv6	<u>Implementing IPv6 Addressing and Basic Connectivity</u>	?	?	?	?	15.3(1)S <u>Unicast Reverse Path Forwarding for IPv6</u>

IPv6 First-Hop Security Features

Feature	IPv6 Implementation Guide	12.xT/ 15.xT Release	12.xM/ 15.xM Release	12.2SE Release	12.2SG, 15.xSG, and 3.xSG Release	12.2SR/ 15S Release	12.2SX/ 12.2SY/ 15.0SY Release
DHCPv6 Guard (IPv6)	?	?	?	?	?	15.2(4)S <u>DHCPv6 Guard</u>	?
IPv6 Address Glean	?	?	?	15.0(2)SE <u>IPv6 Snooping</u>	?	15.3(1)S <u>IPv6 Snooping</u>	?
IPv6 Destination Guard	?	?	?	?	?	15.2(4)S <u>IPv6 Destination Guard</u>	?
IPv6 Device Tracking	<u>Implementing First Hop Security in IPv6</u>	?	?	15.0(2)SE <u>IPv6 Snooping</u>	?	15.3(1)S <u>IPv6 Snooping</u>	12.2(50)SY 15.0(1)SY 15.1(1)SY <u>IPv6 Device</u>

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							Tracking
IPv6 First-Hop Security Binding Table	<u>Implementing First Hop Security in IPv6</u>	?	?	?	?	15.2(4)S IPv6 First-Hop Security Binding Table	?
IPv6 ND Multicast Suppress	?	?	?	?	?	15.3(1)S IPv6 Snooping	?
IPv6 Neighbor Discovery Inspection	<u>Implementing First Hop Security in IPv6</u>	?	?	15.0(2)SE IPv6 Snooping	?	15.3(1)S IPv6 Snooping	12.2(50)SY 15.0(1)SY 15.1(1)SY IPv6 Snooping
IPv6 RA Guard	<u>Implementing First Hop Security in IPv6</u>	?	15.2(4)M IPv6 RA Guard	15.0(2)SE IPv6 Snooping	12.2(54)SG 3.2SG 15.0(2)SG	15.2(4)S IPv6 RA Guard	12.2(33)SXI4 12.2(50)SY 15.0(1)SY 15.1(1)SY IPv6 RA Guard
IPv6 Snooping	?	?	?	15.0(2)SE IPv6 Snooping	?	15.3(1)S IPv6 Snooping	?
IPv6 Source Guard and Prefix Guard	?	?	?	15.0(2)SE IPv6 Snooping	?	15.3(1)S IPv6 Source Guard and Prefix Guard	?
IPv6 Strict Host Mode Support	?	?	?	15.0(2)SE IPv6 Strict Host Mode Support	?	?	?

IPv6 Switching Services Features

Feature	IPv6 Implementation Guide	12.xT/ 15.xT Release	12.xM/15.xM Release	12.2SE Release	12.2SG, 15.xSG, and 3.xSG Release	12.2SR/ 15S Release	12.2SX/ 12.2SY/ 15.0SY Release
CEFv6 Switched Configured IPv6 over IPv6 GRE Tunnels	<u>Implementing Tunneling for IPv6</u>	15.1(3)	?	?	?	?	?
CEFv6 Switching for 6to4 Tunnels	<u>Implementing Tunneling for IPv6</u>	12.2(12)T IPv6 CEF-Switched Tunnels	12.3 IPv6 CEF-Switched Tunnels	?	12.2(25)SG Implementing Tunneling for IPv6	15.0(1)S IPv6 CEF-Switched Tunnels	12.2(18)SX 12.2(50)SY 15.0(1)SY 15.1(1)SY IPv6

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							<u>CEF-Switched Tunnels</u>
IPv6 Switching: CEF/dCEF Support	<u>Implementing IPv6 Addressing and Basic Connectivity</u>	12.2(13) <u>IPv6 Switching: Cisco Express Forwarding and Distributed Cisco Express Forwarding Support</u>	12.3 <u>IPv6 Switching: Cisco Express Forwarding and Distributed Cisco Express Forwarding Support</u>	(25)SEA	12.2(25)SG 3.2SG 15.0(2)SG	12.2(33)SRA <u>IPv6 Switching: Cisco Express Forwarding and Distributed Cisco Express Forwarding Support</u>	12.2(17a)S 12.2(50)SY 15.0(1)SY 15.1(1)SY <u>IPv6 Switching: Cisco Express Forwarding and Distributed Cisco Express Forwarding Support</u>
IPv6 Switching: CEFv6 Switched Automatic IPv4-Compatible Tunnels	<u>Implementing Tunneling for IPv6</u>	12.2(2) <u>IPv6 CEF-Switched Tunnels</u>	12.3 <u>IPv6 CEF-Switched Tunnels</u>	?	?	12.2(33)SRA <u>IPv6 CEF-Switched Tunnels</u>	12.2(17a)S 12.2(50)SY 15.0(1)SY 15.1(1)SY <u>IPv6 CEF-Switched Tunnels</u>
IPv6 Switching: CEFv6 Switched Configured IPv6 over IPv4 Tunnels	<u>Implementing Tunneling for IPv6</u>	12.2(13)T <u>IPv6 CEF-Switched Tunnels</u>	12.3 <u>IPv6 CEF-Switched Tunnels</u>	?	15.1(1)SG <u>Implementing Tunneling for IPv6</u>	12.2(14)S <u>IPv6 CEF-Switched Tunnels</u>	12.2(17a)S 12.2(50)SY 15.0(1)SY 15.1(1)SY <u>IPv6 CEF-Switched Tunnels</u>
IPv6 Switching: CEFv6 Switched ISATAP Tunnels	<u>Implementing Tunneling for IPv6</u>	12.3(2) <u>IPv6 CEF-Switched Tunnels</u>	12.4 <u>IPv6 CEF-Switched Tunnels</u>	?	12.2(25)SG 3.2SG 15.0(2)SG <u>Implementing IPv6 Tunneling</u>	12.2(33)SRA <u>IPv6 CEF-Switched Tunnels</u>	12.2(17a)S 12.2(50)SY 15.0(1)SY 15.1(1)SY <u>IPv6 CEF-Switched Tunnels</u>

IPv6 Routing Features

Feature	IPv6 Configuration Guide	12.xT/ 15.xT Release	12.xM/15.xM Release	12.2SE Release	12.2SG, 15.xSG, and 3.xSG Release	12.2SR/ 15S Release	12.2S 12.2S 15.0S Release
BFD IPv6 Encapsulation Support	<u>Implementing Bidirectional Forwarding Detection for IPv6</u>	15.1(2) <u>BFD IPv6 Encapsulation Support</u>	?	?	?	12.2(33)SRE <u>BFD IPv6 Encapsulation Support</u>	15.0(1)S 15.1(1)S <u>BFD IPv6 Encapsulation Support</u>
BFD Support for EIGRP IPv6	<u>BFD Support for EIGRP IPv6</u>	?	15.2(4)M <u>BFD Support for EIGRP IPv6</u>	?	?	15.2(2)S <u>BFD Support for EIGRP IPv6</u>	?
EIGRP IPv6 VRF Lite	<u>Implementing EIGRP for</u>	?	15.1(4) <u>IPv6 Routing:</u>	?	?	15.1(1)S <u>IPv6 Routing:</u>	15.0(1)S 15.1(1)S

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	<u>IPv6</u>		<u>EIGRP Support</u>			<u>EIGRP Support</u>	
EIGRP MIB	?	?	?	?	?	15.2(4)S <u>EIGRP MIB</u>	?
IPv6: NSF and Graceful Restart for MP-BGP IPv6 Address Family	<u>Implementing Multiprotocol BGP for IPv6</u>	?	?	?	?	12.2(33)SRE <u>IPv6: NSF and Graceful Restart for MP-BGP IPv6 Address Family</u>	15.0(1)S 15.1(1)S <u>IPv6: NSF and Graceful Restart for MP-BGP IPv6 Address Family</u>
IPv6 Policy-Based Routing	<u>Implementing Policy-Based Routing for IPv6</u>	12.3(7) <u>IPv6 Policy-Based Routing</u>	12.4 <u>IPv6 Policy-Based Routing</u>	?	?	15.1(1)S <u>IPv6 Policy-Based Routing</u>	12.2(33)S 12.2(2)S 15.0(1)S 15.1(1)S <u>IPv6 Policy-Based Routing</u>
IPv6 Routing: EIGRP Support	<u>Implementing EIGRP for IPv6</u>	12.4(6) <u>IPv6 Routing: EIGRP Support</u>	?	(40) <u>Implementing EIGRP for IPv6</u>	12.2(40)SG 3.2SG 15.0(2)SG <u>Implementing EIGRP for IPv6</u>	12.2(33)SRB <u>IPv6 Routing: EIGRP Support</u>	12.2(33)S 12.2(50)S 15.0(1)S 15.1(1)S <u>IPv6 Routing: EIGRP Support</u>
IPv6 Routing: IS-IS Multitopology Support for IPv6	<u>Implementing IS-IS for IPv6</u>	12.2(15) <u>IPv6 Routing: IS-IS Multitopology Support for IPv6</u>	12.3 <u>IPv6 Routing: IS-IS Multitopology Support for IPv6</u>	?	12.2(25)SG 3.2SG 15.0(2)SG <u>IPv6 Routing: IS-IS Multitopology Support for IPv6</u>	12.2(33)SRA <u>IPv6 Routing: IS-IS Multitopology Support for IPv6</u>	12.2(18)S 12.2(50)S 15.0(1)S 15.1(1)S <u>IPv6 Routing: IS-IS Multitopology Support for IPv6</u>
IPv6 Routing: IS-IS Local RIB	<u>Implementing IS-IS for IPv6</u>	12.3(4)T <u>IPv6 Routing: IS-IS Support for IPv6</u>	12.4 <u>IPv6 Routing: IS-IS Support for IPv6</u>	?	?	12.2(33)SRA <u>IPv6 Routing: IS-IS Support for IPv6</u>	12.2(33)S 12.2(50)S 15.0(1)S 15.1(1)S <u>IPv6 Routing: IS-IS Support for IPv6</u>
IPv6 Routing: IS-IS Support for IPv6	<u>Implementing IS-IS for IPv6</u>	12.2(8)T <u>IPv6 Routing: IS-IS Support for IPv6</u>	12.3 <u>IPv6 Routing: IS-IS Support for IPv6</u>	?	12.2(25)SG 3.2SG 15.0(2)SG <u>IPv6 Routing: IS-IS Support for IPv6</u>	12.2(33)SRA <u>IPv6 Routing: IS-IS Support for IPv6</u>	12.2(17a)S 12.2(50)S 15.0(1)S 15.1(1)S <u>IPv6 Routing: IS-IS Support for IPv6</u>
IPv6 Routing: Multiprotocol BGP	<u>Implementing Multiprotocol BGP for IPv6</u>	12.2(2) <u>IPv6 Routing: Multiprotocol</u>	12.3 <u>IPv6 Routing: Multiprotocol</u>	?	12.2(25)SG 3.2SG 15.0(2)SG	12.2(33)SRA <u>IPv6 Routing: Multiprotocol</u>	12.2(17a)S 12.2(50)S 15.0(1)S

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Extensions for IPv6		<u>BGP Extensions for IPv6</u>	<u>BGP Extensions for IPv6</u>		<u>Implementing Multiprotocol BGP for IPv6</u>	<u>BGP Extensions for IPv6</u>	15.1(1)S IPv6 Routing: Multiprotocol BGP Extension for IPv6
IPv6 Routing: Multiprotocol BGP Link-Local Address Peering	<u>Implementing Multiprotocol BGP for IPv6</u>	12.2(4) <u>IPv6 Routing: Multiprotocol BGP Link-Local Address Peering</u>	12.3 <u>IPv6 Routing: Multiprotocol BGP Link-Local Address Peering</u>	?	12.2(25)SG 3.2SG 15.0(2)SG <u>Implementing Multiprotocol BGP for IPv6</u>	12.2(33)SRA <u>IPv6 Routing: Multiprotocol BGP Link-Local Address Peering</u>	12.2(17a)S 12.2(50)S 15.0(1)S 15.1(1)S IPv6 Routing: Multiprotocol BGP Link-Local Address Peering
IPv6 Routing: OSPF for IPv6 (OSPFv3)	<u>Implementing OSPFv3</u>	12.2(15) <u>IPv6 Routing: OSPFv3</u>	12.3 <u>IPv6 Routing: OSPFv3</u>	(25)SEA	12.2(25)SG 3.2SG 15.0(2)SG <u>IPv6 Routing: OSPFv3</u>	12.2(33)SRA <u>IPv6 Routing: OSPFv3</u>	12.2(17a)S 12.2(50)S 15.0(1)S 15.1(1)S IPv6 Routing: OSPFv3
IPv6 Routing: OSPF for IPv6 Authentication Support with IPsec	<u>Implementing OSPFv3</u>	12.3(4) <u>IPv6 Routing: OSPF for IPv6 Authentication Support with IPsec</u>	12.4 <u>IPv6 Routing: OSPF for IPv6 Authentication Support with IPsec</u>	15.0(2)SE	?	15.3(1)S <u>IPv6 Routing: OSPF for IPv6 Authentication Support with IPsec</u>	15.0(1)S 15.1(1)S
IPv6 Routing: RIP for IPv6 (RIPng)	<u>Implementing RIP for IPv6</u>	12.2(2) <u>IPv6 Routing: RIP for IPv6</u>	12.3 <u>IPv6 Routing: RIP for IPv6</u>	25)SEA	12.2(25)SG <u>Implementing RIP for IPv6</u>	12.2(33)SRA <u>IPv6 Routing: RIP for IPv6</u>	12.2(17a)S 12.2(50)S 15.0(1)S 15.1(1)S IPv6 Routing: RIP for IPv6
IPv6 Routing: RIPng Nonstop Forwarding	<u>Implementing RIP for IPv6</u>	?	?	?	?	12.2(33)SRE	15.0(1)S 15.1(1)S IPv6 Routing: RIP for IPv6
IPv6 Routing: Route Redistribution	<u>Implementing IS-IS for IPv6. Implementing RIP for IPv6</u>	12.2(2) <u>IPv6 Routing: Route Redistribution. IPv6 Routing: Route Redistribution</u>	12.3 <u>IPv6 Routing: Route Redistribution. IPv6 Routing: Route Redistribution</u>	(25)SEA <u>Implementing RIP for IPv6</u>	12.2(25)SG 3.2SG 15.0(2)SG <u>IPv6 Routing: Route Redistribution</u>	12.2(33)SRA <u>IPv6 Routing: Route Redistribution. IPv6 Routing: Route Redistribution</u>	12.2(18)S 12.2(50)S 15.0(1)S 15.1(1)S IPv6 Routing: Route Redistribution
IS-IS IPv6 Administrative Tag	?	?	15.2(4)M <u>IS-IS IPv6 Administrative Tag</u>	?	?	15.2(4)S <u>IS-IS IPv6 Administrative Tag</u>	?

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IS-IS IPv6 Advertise Passive Only	?	?	15.2(4)M <u>IS-IS IPv6 Advertise Passive Only</u>	?	?	?	?
IS-IS IPv6 Client for BFD	?	?	?	?	?	15.2(4)S <u>IS-IS IPv6 Client for BFD</u>	15.1(1)S <u>IS-IS IPv6 Client for BFD</u>
OSPFv3 Fast Convergence: LSA and SPF Throttling	<u>Implementing OSPFv3</u>	?	15.0(1) <u>OSPFv3 Fast Convergence: LSA and SPF Throttling</u>	?	?	12.2(33)SRC <u>OSPFv3 Fast Convergence: LSA and SPF Throttling</u>	15.0(1)S <u>OSPFv3 Fast Convergence: LSA and SPF Throttling</u>
OSPFv3 IPsec ESP Encryption and Authentication	<u>Implementing OSPFv3</u>	12.4(9) <u>OSPFv3 IPsec ESP Encryption and Authentication</u>	15.0 <u>OSPFv3 IPsec ESP Encryption and Authentication</u>	?	15.1(1)SG 3.2SG <u>Implementing OSPFv3</u>	?	15.0(1)S <u>OSPFv3 IPsec ESP Encryption and Authentication</u>
IPv6 Routing: Static Routing	<u>Implementing Static Routes for IPv6</u>	12.2(2) <u>IPv6 Routing: Static Routing</u>	12.3 <u>IPv6 Routing: Static Routing</u>	(25)SEA <u>Implementing Static Routes for IPv6</u>	12.2(25)SG 3.2SG 15.0(2)SG <u>Implementing Static Routes for IPv6</u>	12.2(33)SRA <u>IPv6 Routing: Static Routing</u>	12.2(17a) <u>IPv6 Routing: Static Routing</u>
OSPFv3 Address Families	<u>Implementing OSPFv3</u>	15.2(1) <u>OSPFv3 Address Families</u>	?	?	?	15.1(3)S <u>OSPFv3 Address Families</u>	15.1(1)S <u>OSPFv3 Address Families</u>
OSPFv3 Dynamic Interface Cost Support	<u>Implementing OSPFv3</u>	12.4(15) <u>Implementing OSPFv3</u>	15.0	?	?	?	?
OSPFv3 External Path Preference Option	<u>Implementing OSPFv3</u>	15.2(3) <u>Implementing OSPFv3</u>	?	?	?	15.1(3)S <u>OSPFv3 External Path Preference Option</u>	?
OSPFv3 for BFD	<u>Implementing OSPFv3</u> , <u>Implementing Bidirectional Forwarding Detection for IPv6</u>	15.1(2) <u>OSPFv3 for BFD</u>	?	?	15.1(1)SG <u>Implementing OSPFv3</u>	12.2(33)SRE <u>OSPFv3 for BFD</u>	15.0(1)S <u>OSPFv3 for BFD</u>
OSPFv3 Graceful Restart	<u>Implementing OSPFv3</u>	?	15.0(1)M <u>OSPFv3 Graceful Restart</u>	(58)	15.1(1)SG 3.3SG <u>Implementing OSPFv3</u>	12.2(33)SRE <u>OSPFv3 Graceful Restart</u>	15.0(1)S <u>OSPFv3 Graceful Restart</u>
OSPFv3 MANET	<u>OSPFv3 Extensions for</u>	15.2(1) <u>OSPFv3</u>	?	?	?	?	?

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Extensions	<u>Mobile Ad Hoc Networks</u>	<u>Extensions for Mobile Ad Hoc Networks</u>					
OSPFv3 Max-Metric Router LSA	<u>Implementing OSPFv3</u>	15.2(3) <u>OSPFv3 Max-Metric Router LSA</u>	?	?	?	15.1(3)S <u>OSPFv3 Max-Metric Router LSA</u>	?
OSPFv3 MIB	?	?	15.2(4)M <u>OSPFv3 MIB</u>	(58)	?	15.2(4)S <u>OSPFv3 MIB</u>	?
OSPFv3 NSR	?	?	?	?	?	15.2(4)S <u>OSPFv3 NSR</u>	?
OSPFv3 <u>RFC 3101</u> Support	?	?	?	15.2(4)S <u>Configuring OSPF</u>	?	?	?
Static Route Support for BFD over IPv6	<u>Implementing Bidirectional Forwarding Detection for IPv6</u>	15.1(2) <u>Static Route Support for BFD over IPv6</u>	?	?	?	?	15.0(1)S 15.1(1)S
VRF Lite Support for IPv6	<u>Implementing Multiprotocol BGP for IPv6</u>	?	?	?(58)	?	?	?
TTL Security Support for OSPFv3 on IPv6	?	?	?	?	?	15.2(4)S <u>TTL Security Support for OSPFv3 on IPv6</u>	?

IPv6 Services and Management Features

Feature	IPv6 Implementation Guide	12.xT/ 15.xT Release	12.xM/15.xM Release	12.2SE Release	12.2SG, 15.xSG, and 3.xSG Release	12.2S Release
ACL: Hardware and Software Counters Granularity for IPv4 and IPv6 ACL Statistics	<u>Implementing Traffic Filters and Firewalls for IPv6 Security</u>	?	?	?	?	?
FHRP - GLBP Support for IPv6	<u>Configuring First Hop Redundancy Protocols in IPv6</u>	12.4(6) <u>FHRP - GLBP Support for IPv6</u>	15.0 <u>FHRP - GLBP Support for IPv6</u>	?	?	?

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HSRP for IPv6	Configuring First Hop Redundancy Protocols in IPv6	12.4(4) HSRP for IPv6	15.0 HSRP for IPv6	(46) Configuring First Hop Redundancy Protocols in IPv6	12.2(52)SG 3.2SG 15.0(2)SG Configuring First Hop Redundancy Protocols in IPv6	12.2(33) HSRP for IPv6
HSRP: Global IPv6 Address	Configuring First Hop Redundancy Protocols in IPv6	?	?	?	15.1(1)SG 3.3SG Configuring First Hop Redundancy Protocols in IPv6	15.3(1) Configuring First Hop Redundancy Protocols in IPv6
IKEv2 Headend Support for Remote Access Clients	Configuring Internet Key Exchange Version 2 and FlexVPN	15.2(1)	?	?	?	?
IOS Zone-Based Firewall	Implementing Traffic Filters and Firewalls for IPv6 Security	15.1(2) Zone-Based Policy Firewall IPv6 Support	?	?	?	?
IPsec IPv6 Phase 2 Support	Implementing IPsec in IPv6 Security	12.4(4) IPsec IPv6 Phase 2 Support	15.0 IPsec IPv6 Phase 2 Support	?	?	?
IPv6 ACL Extensions for Hop by Hop Filtering	IPv6 ACL Extensions for Hop by Hop Filtering	15.2(3) IPv6 ACL Extensions for Hop by Hop Filtering	?	?	?	15.2(2) ACL Extensions for Hop by Hop Filtering
IPv6 ACL Extensions for IPsec Authentication Headers	Implementing Traffic Filters and Firewalls for IPv6 Security	12.4(20) IPv6 ACL Extensions for IPsec Authentication Headers	15.0 IPv6 ACL Extensions for IPsec Authentication Headers	?	?	?
IPv6 IOS Firewall	Implementing Traffic Filters and Firewalls for IPv6 Security	12.3(7) IPv6 IOS Firewall	12.4 IPv6 IOS Firewall	?	?	?
IPv6 IOS Firewall FTP Application Support	Implementing Traffic Filters and Firewalls for IPv6 Security	12.3(11) IPv6 IOS Firewall	?	?	?	15.3(1) IOS Firewall
IPv6 over DMVPN	Implementing Dynamic Multipoint VPN	12.4(20) IPv6 over DMVPN	15.0 IPv6 over DMVPN	?	?	?

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	<u>for IPv6</u>					
IPv6 Secure Neighbor Discovery (SeND)	<u>Implementing First Hop Security in IPv6</u>	12.4(24)	15.0	?	?	?
IPv6 Services: AAAA DNS Lookups over an IPv4 Transport	<u>Implementing IPv6 Addressing and Basic Connectivity</u>	12.2(2) <u>IPv6 Services: AAAA DNS Lookups over an IPv4 Transport</u>	12.3 <u>IPv6 Services: AAAA DNS Lookups over an IPv4 Transport</u>	(25)SEA	12.2(25)SG 3.2SG 15.0(2)SG	12.2(33) <u>IPv6 Service AAAA Lookups over an IPv4 Transport</u>
IPv6 Services: Cisco Discovery Protocol: IPv6 Address Family Support for Neighbor Information	<u>Implementing IPv6 Addressing and Basic Connectivity</u>	12.2(8) <u>IPv6 Addressing and Basic Connectivity</u>	12.3 <u>IPv6 Addressing and Basic Connectivity</u>	(25)SEE	12.2(25)SG 3.2SG 15.0(2)SG	12.2(33) <u>IPv6 Addressing and Basic Connectivity</u>
IPv6 Services: CISCO-IP-FORWARDING-MIB Support	<u>Implementing IPv6 for Network Management</u>	12.2(15)	12.3	(25)SEE	12.2(25)SG 3.2SG 15.0(2)SG	12.2(33)
IPv6 Services: CISCO-IP-MIB Support	<u>Implementing IPv6 for Network Management</u>	12.2(15)	12.3	(25)SEE	12.2(25)SG 3.2SG 15.0(2)SG	12.2(33)
IPv6 Services: DNS Lookups over an IPv6 Transport	<u>Implementing IPv6 Addressing and Basic Connectivity</u>	12.2(8) <u>IPv6 Services: AAAA DNS Lookups over an IPv4 Transport</u>	12.3 <u>IPv6 Services: AAAA DNS Lookups over an IPv4 Transport</u>	(25)SED	12.2(25)SG 3.2SG 15.0(2)SG	12.2(33) <u>IPv6 Service AAAA Lookups over an IPv4 Transport</u>
IPv6 Services: Extended Access Control Lists ^[2]	<u>Implementing Traffic Filters and Firewalls for IPv6 Security</u>	12.2(13) <u>IPv6 Access Control Lists</u>	12.3 <u>IPv6 Access Control Lists</u>	(25)SED	12.2(25)SG 3.2SG 15.0(2)SG	12.2(33) <u>IPv6 Access Control Lists</u>
IPv6 Services: Generic Prefix	<u>Implementing IPv6 Addressing and Basic</u>	12.3(4) <u>IPv6 Generic Prefix</u>	12.4 <u>IPv6 Generic Prefix</u>	?	?	?

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	<u>Connectivity</u>					
IPv6 Services: IPv6 IPsec VPN	<u>Implementing IPsec in IPv6 Security</u>	12.4(4)	15.0	?	?	?
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>	15.1(3)	?	(58)	12.2(54)SG 3.2SG 15.0(2)SG	12.2(33)
IPv6 Services: Secure Shell (SSH) Support over IPv6	<u>Implementing IPv6 for Network Management</u>	12.2(8) <u>SSH Support Over IPv6</u>	12.3 <u>SSH Support Over IPv6</u>	(25)SEE	12.2(25)SG 3.2SG 15.0(2)SG	12.2(33)
IPv6 Services: SNMP over IPv6 ^[5]	<u>Implementing IPv6 for Network Management</u>	12.3(14) <u>SNMP Over IPv6</u>	12.4 <u>SNMP Over IPv6</u>	(44)	12.2(44)SG 3.2SG 15.0(2)SG	12.2(33)
IPv6 Services: Standard Access Control Lists	<u>Implementing Traffic Filters and Firewalls for IPv6 Security</u>	12.2(2) <u>IPv6 Access Control Lists</u>	12.3 <u>IPv6 Access Control Lists</u>	(25)SED	12.2(25)SG 3.2SG 15.0(2)SG	12.2(33) <u>IPv6 Access Control</u>
IPv6 Transport for DMVPN	<u>Implementing Dynamic Multipoint VPN for IPv6</u>	15.2(1) <u>IPv6 over DMVPN</u>	?	?	?	15.3(1) <u>over DMVPN</u>
ISSU - HSRP	<u>Configuring First Hop Redundancy Protocols in IPv6</u>	?	?	?	12.2(52)SG 3.2SG 15.0(2)SG	?
NTPv4	<u>Implementing NTPv4 in IPv6</u>	12.4(20) <u>NTPv4 in IPv6</u>	15.0(1)M <u>NTPv4 in IPv6</u>	12.2(58)SE	?	15.1(2) <u>NTPv4 in IPv6</u>
SNMPv3 - 3DES and AES Encryption Support	<u>Implementing IPv6 for Network Management</u>	12.4(2)	15.0	(52)	12.2(50)SG 3.2SG 15.0(2)SG	12.2(33)
SSO - HSRP	<u>Configuring First Hop Redundancy Protocols in IPv6</u>	?	?	?	12.2(52)SG 3.2SG 15.0(2)SG	12.2(33)
Telnet Access over IPv6	<u>Implementing IPv6 for Network Management</u>	12.2(2)T <u>Telnet Access over IPv6</u>	12.3 <u>Telnet Access over IPv6</u>	12.2(25)SEA	12.2(25)SG 3.2SG 15.0(2)SG	12.2(33)

IPv6 Broadband Access Features

Feature	IPv6 Configuration Guide	12.xT/ 15.xT Release	12.xM/ 15.xM Release	12.2SE Release	12.2SG, 15.xSG, and 3.xSG Release	12.2SR/ 15S Release	12.2SX/ 12.2SY/ 15.0SY Release
Broadband IPv6 Counter Support at LNS	Implementing ADSL and Deploying Dial Access for IPv6	12.2(13)	12.3	?	?	12.2(33)SRC	?
IPv6 Access Services: AAA Support for Cisco VSA IPv6 Attributes	Implementing ADSL and Deploying Dial Access for IPv6	12.2(13) AAA Support for IPv6	12.3 AAA Support for IPv6	?	?	12.2(33)SRC ^[6] AAA Support for IPv6	?
IPv6 Access Services: AAA Support for RFC 3162 IPv6 RADIUS Attributes	Implementing ADSL and Deploying Dial Access for IPv6	12.3(4) AAA Support for IPv6	12.4 AAA Support for IPv6	(58)	?	12.2(33)SRC ^[6] AAA Support for IPv6	?
IPv6 Access Services: PPPoA	Implementing ADSL and Deploying Dial Access for IPv6	12.2(13)	12.3	?	?	12.2(33)SRC ^[6]	?
IPv6 Access Services: PPPoE	Implementing ADSL and Deploying Dial Access for IPv6	12.2(13)	12.3	?	?	12.2(33)SRC ^[6]	?
IPv6 Access Services: Prefix Pools	Implementing ADSL and Deploying Dial Access for IPv6	12.2(13) AAA Support for IPv6	12.3 AAA Support for IPv6	?	?	?	?
IPv6 Access Services: RBE	Implementing IPv6 Addressing and Basic Connectivity	12.3(4)	12.4	?	?	12.2(33)SRC ^[6]	?
RADIUS over IPv6	Implementing ADSL and Deploying Dial Access for IPv6	15.2(1) AAA Support for IPv6	?	(58)	?	15.1(1)S AAA Support for IPv6	?

DHCP Features for IPv6

Feature	IPv6 Implementation Guide	12.xT/ 15.xT Release	12.xM/15.xM Release	12.2SE Release	12.2SG, 15.xSG, and 3.xSG Release	12.2SR/ 15S Release	
DHCP: DHCPv6 Individual Address Assignment	<u>Implementing DHCP for IPv6</u>	12.4(24) <u>DHCPv6 Repackaging</u>	?	(46) <u>Implementing DHCP for IPv6</u>	?	?	?
DHCP: DHCPv6 Relay SSO/ISSU	<u>Implementing DHCP for IPv6</u>	?	?	?	?	12.2(33)SRE <u>IPv6 Access Services: DHCPv6 Relay Agent</u>	?
DHCPv6 Bulk Lease Query	<u>Implementing DHCP for IPv6</u>	?	?	(58) <u>Implementing DHCP for IPv6</u>	?	15.1(1)S <u>DHCPv6 Bulk Lease Query</u>	?
DHCPv6 Ethernet Remote ID Option	<u>Implementing DHCP for IPv6</u>	?	?	(46) <u>Implementing DHCP for IPv6</u>	12.2(52)SG 3.2SG 15.0(2)SG	12.2(33)SRC <u>IPv6 Access Services: DHCPv6 Relay Agent</u>	12 12 15 15 IP Se DF Re
DHCPv6 Guard	?	?	?	?	?	15.2(4)S <u>DHCPv6 Guard</u>	?
DHCPv6 Relay: Reload Persistent Interface ID Option	<u>Implementing DHCP for IPv6</u>	?	?	(46) <u>Implementing DHCP for IPv6</u>	12.2(52)SG 3.2SG 15.0(2)SG	12.2(33)SRC <u>IPv6 Access Services: DHCPv6 Relay Agent</u>	12 12 15 15 IP Se DF Re
DHCPv6 Repackaging	<u>Implementing DHCP for IPv6</u>	?	?	(50) <u>Implementing DHCP for IPv6</u>	?	12.2(33)SRE <u>DHCPv6 Repackaging</u>	?
DHCPv6 Relay - Source Configuration	<u>Implementing DHCP for IPv6</u>	?	?	(58) <u>Implementing DHCP for IPv6</u>	?	12.2(33)SRE <u>DHCPv6 Relay Source Configuration</u>	?
IPv6 Access Services: DHCPv6 Client Information Refresh Option	<u>Implementing DHCP for IPv6</u>	12.4(15) <u>DHCPv6 Server Timer Options</u>	15.0 <u>DHCPv6 Server Timer Options</u>	?	?	?	?
		12.3(4)	12.4	?	?	12.2(33)SRA	

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IPv6 Access Services: DHCPv6 Prefix Delegation	<u>Implementing DHCP for IPv6</u> <u>Implementing ADSL and Deploying Dial Access for IPv6</u>						12 12 15 15
IPv6 Access Services: DHCPv6 Prefix Delegation via AAA	<u>Implementing ADSL and Deploying Dial Access for IPv6</u>	12.3(14) <u>DHCPv6 Prefix Delegation Using AAA</u>	12.4 <u>DHCPv6 Prefix Delegation Using AAA</u>	?	?	?	?
IPv6 Access Services: DHCPv6 Relay Agent	<u>Implementing DHCP for IPv6</u>	12.3(11) <u>IPv6 Access Services: DHCPv6 Relay Agent</u>	12.4 <u>IPv6 Access Services: DHCPv6 Relay Agent</u>	(46) <u>Implementing DHCP for IPv6</u>	12.2(50)SG 3.2SG 15.0(2)SG	12.2(33)SRC <u>IPv6 Access Services: DHCPv6 Relay Agent</u>	12 12 15 15 IP Se DH Re
IPv6 Access Services: DHCPv6 Relay Agent Notification for Prefix Delegation ^[7]	<u>Implementing DHCP for IPv6</u>	?	?	(46) <u>Implementing DHCP for IPv6</u>	12.2(52)SG 3.2SG 15.0(2)SG	12.2(33)SRC <u>IPv6 Access Services: DHCPv6 Relay Agent</u>	12 12 15 15 IP Se DH Re
IPv6 Access Services: Stateless DHCPv6	<u>Implementing DHCP for IPv6</u>	12.3(4) <u>IPv6 Access Services: Stateless DHCPv6</u>	12.4 <u>IPv6 Access Services: Stateless DHCPv6</u>	?	?	12.2(33)SRA <u>IPv6 Access Services: Stateless DHCPv6</u>	12 12 15 15 IP Se Sta DH
DHCPv6 Server Stateless Autoconfiguration	<u>Implementing DHCP for IPv6</u>	12.4(15) <u>DHCPv6 Server Stateless Autoconfiguration</u>	?	(46) <u>Implementing DHCP for IPv6</u>	12.2(52)SG 3.2SG 15.0(2)SG	12.2(33)SRC <u>DHCPv6 Server Stateless Autoconfiguration</u>	?
DHCPv6 Server - MPLS VPN Support	<u>Implementing DHCP for IPv6</u>	?	?	?	?	15.1(2)S <u>DHCPv6 Relay and Server - MPLS VPN Support</u>	?
DHCPv6 Relay - MPLS VPN Support	<u>Implementing DHCP for IPv6</u>	?	?	?	?	15.1(2)S <u>DHCPv6 Relay and Server - MPLS VPN Support</u>	?
DHCPv6 Server-Relay-Client	<u>Implementing DHCP for IPv6</u>	?	?	(58) <u>Implementing</u>	?	?	?

Support in a VRF Lite Environment				<u>DHCP for IPv6</u>			
DHCPv6 Server SNTP, NIS, NIS+, Refresh Timer Options	<u>Implementing DHCP for IPv6</u>	12.4(15)T <u>DHCPv6 Server Timer Options</u>	?	(46) <u>Implementing DHCP for IPv6</u>	?	?	?

IPv6 Multicast Features

Feature	IPv6 Configuration Guide	12.xT/ 15.xT Release	12.xM/15.xM Release	12.2SE Release	12.2SG, 15.xSG, and 3.xSG Release	12.2SR/ 15S Release	12.2S 15S
Distributed MFIB for IPv6 Multicast	<u>Implementing IPv6 Multicast</u>	12.3(4) <u>Distributed MFIB for IPv6 Multicast</u>	12.4 <u>Distributed MFIB for IPv6 Multicast</u>	?	?	12.2(25)S <u>Distributed MFIB for IPv6 Multicast</u>	12.2(3)S 12.2(5)S 15.0(1)S 15.1(1)S <u>Distributed MFIB for IPv6 Multicast</u>
IPv6 BSR: Configure RP Mapping	<u>Implementing IPv6 Multicast</u>	12.4(2) <u>Configuring Basic IP Multicast in IPv6 Networks</u>	?	?	12.2(40)SG 3.2SG 15.0(2)SG <u>Implementing IPv6 Multicast</u>	12.2(33)SRE <u>Configuring Basic IP Multicast in IPv6 Networks</u>	12.2(5)S 15.0(1)S 15.1(1)S <u>Configuring Basic IP Multicast in IPv6 Networks</u>
IPv6 BSR Scoped-Zone Support	<u>Implementing IPv6 Multicast</u>	12.3(14) <u>Configuring Basic IP Multicast in IPv6 Networks</u>	12.4 <u>Configuring Basic IP Multicast in IPv6 Networks</u>	?	12.2(40)SG 3.2SG 15.0(2)SG <u>Implementing IPv6 Multicast</u>	?	12.2(5)S 15.0(1)S 15.1(1)S <u>Configuring Basic IP Multicast in IPv6 Networks</u>
IPv6 Multicast	<u>Implementing IPv6 Multicast</u>	12.3(4) <u>Configuring Basic IP Multicast in IPv6 Networks</u>	12.4 <u>Configuring Basic IP Multicast in IPv6 Networks</u>	15.0(2)SE	12.2(40)SG 3.2SG 15.0(2)SG <u>Implementing IPv6 Multicast</u>	12.2(18)S <u>Configuring Basic IP Multicast in IPv6 Networks</u>	12.2(3)S 12.2(5)S 15.0(1)S 15.1(1)S <u>Configuring Basic IP Multicast in IPv6 Networks</u>
IPv6 Multicast Address Family Support for Multiprotocol BGP	<u>Implementing Multiprotocol BGP for IPv6</u>	12.3(4) <u>IPv6 Multicast Address Family Support for Multiprotocol BGP</u>	12.4 <u>IPv6 Multicast Address Family Support for Multiprotocol BGP</u>	?	?	12.2(33)SRA <u>IPv6 Multicast Address Family Support for Multiprotocol BGP</u>	12.2(3)S 12.2(5)S 15.0(1)S 15.1(1)S <u>IPv6 Multicast Address Family Support for Multiprotocol BGP</u>

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							BGP
IPv6 Multicast: Address Group Range Support	<u>Implementing IPv6 Multicast</u>	?	15.0(1)M <u>Configuring Basic IP Multicast in IPv6 Networks</u>	?	12.2(40)SG 3.2SG 15.0(2)SG <u>Implementing IPv6 Multicast</u>	12.2(33)SRE <u>Configuring Basic IP Multicast in IPv6 Networks</u>	12.2(3) 12.2(5) 15.0(1) 15.1(1) Confi Basic Multic IPv6 M
IPv6 Multicast: Bandwidth-Based Call Admission Control	<u>Implementing IPv6 Multicast</u>	?	?	?	12.2(40)SG 3.2SG 15.0(2)SG <u>Implementing IPv6 Multicast</u>	12.2(33)SRE <u>IPv6 Multicast: Bandwidth-Based Call Admission Control</u>	?
IPv6 Multicast: Bootstrap Router	<u>Implementing IPv6 Multicast</u>	12.3(11) <u>Configuring Basic IP Multicast in IPv6 Networks</u>	12.4 <u>Configuring Basic IP Multicast in IPv6 Networks</u>	?	12.2(40)SG 3.2SG 15.0(2)SG <u>Implementing IPv6 Multicast</u>	12.2(33)SRA <u>Configuring Basic IP Multicast in IPv6 Networks</u>	12.2(1) 12.2(5) 15.0(1) 15.1(1) Confi Basic Multic IPv6 M
IPv6 Multicast: Explicit Tracking of Receivers	<u>Implementing IPv6 Multicast</u>	12.3(7) <u>IPv6 Multicast: Explicit Tracking of Receivers</u>	12.4 <u>IPv6 Multicast: Explicit Tracking of Receivers</u>	?	12.2(40)SG 3.2SG 15.0(2)SG <u>Implementing IPv6 Multicast</u>	12.2(33)SRA <u>IPv6 Multicast: Explicit Tracking of Receivers</u>	12.2(3) 12.2(5) 15.0(1) 15.1(1) IPv6 M Explic Track Receiv
IPv6 Multicast: IPv6 Bidirectional PIM	<u>Implementing IPv6 Multicast</u>	12.3(7) <u>IPv6 Bidirectional PIM</u>	12.4 <u>IPv6 Bidirectional PIM</u>	?	12.2(40)SG 3.2SG 15.0(2)SG <u>Implementing IPv6 Multicast</u>	12.2(33)SRA <u>IPv6 Bidirectional PIM</u>	?
IPv6 Multicast: IPv6 BSR Bidirectional Support	<u>Implementing IPv6 Multicast</u>	12.3(14) <u>Configuring Basic IP Multicast in IPv6 Networks</u>	12.4 <u>Configuring Basic IP Multicast in IPv6 Networks</u>	?	12.2(40)SG 3.2SG 15.0(2)SG <u>Implementing IPv6 Multicast</u>	12.2(33)SRE <u>Configuring Basic IP Multicast in IPv6 Networks</u>	?
IPv6 Multicast: MLD Access Group	<u>Implementing IPv6 Multicast</u>	12.3(4) <u>IPv6 Multicast Listener Discovery Protocol</u>	12.4 <u>IPv6 Multicast Listener Discovery Protocol</u>	?	12.2(40)SG 3.2SG 15.0(2)SG	12.2(33)SRA <u>IPv6 Multicast Listener Discovery Protocol</u>	12.2(3) 12.2(5) 15.0(1) 15.1(1) Multic Listen

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							Disco Proto
IPv6 Multicast: Multicast Listener Discovery Protocol, Versions 1 and 2	<u>Implementing IPv6 Multicast</u>	12.3(2) <u>IPv6 Multicast Listener Discovery Protocol</u>	12.4 <u>IPv6 Multicast Listener Discovery Protocol</u>	?	12.2(40)SG 3.2SG 15.0(2)SG	12.2(33)SRA <u>IPv6 Multicast Listener Discovery Protocol</u>	12.2(1) 12.2(5) 15.0(1) 15.1(1) Multi Listen Disco Proto
IPv6 Multicast: PIM Accept Register	<u>Implementing IPv6 Multicast</u>	12.3(4) <u>IPv6 Multicast: PIM Sparse Mode</u>	12.4 <u>IPv6 Multicast: PIM Sparse Mode</u>	?	12.2(40)SG 3.2SG 15.0(2)SG <u>Implementing IPv6 Multicast</u>	12.2(33)SRA <u>IPv6 Multicast: PIM Sparse Mode</u>	12.2(3) 12.2(5) 15.0(1) 15.1(1) IPv6 M PIM S Mode
IPv6 Multicast: PIM Embedded RP Support	<u>Implementing IPv6 Multicast</u>	12.3(4) <u>IPv6 Multicast: PIM Sparse Mode</u>	12.4 <u>IPv6 Multicast: PIM Sparse Mode</u>	?	12.2(40)SG 3.2SG 15.0(2)SG <u>Implementing IPv6 Multicast</u>	12.2(33)SRA <u>IPv6 Multicast: PIM Sparse Mode</u>	12.2(3) 12.2(5) 15.0(1) 15.1(1) IPv6 M PIM S Mode
IPv6 Multicast: PIM Source-Specific Multicast	<u>Implementing IPv6 Multicast</u>	12.3(2) <u>IPv6 Multicast: PIM Source-Specific Multicast</u>	12.4 <u>IPv6 Multicast: PIM Source-Specific Multicast</u>	?	12.2(40)SG 3.2SG 15.0(2)SG <u>Implementing IPv6 Multicast</u>	12.2(33)SRA <u>IPv6 Multicast: PIM Source-Specific Multicast</u>	12.2(1) 12.2(5) 15.0(1) 15.1(1) Multi Source Multi
IPv6 Multicast: PIM Sparse Mode	<u>Implementing IPv6 Multicast</u>	12.3(2) <u>IPv6 Multicast: PIM Sparse Mode</u>	12.4 <u>IPv6 Multicast: PIM Sparse Mode</u>	?	12.2(40)SG 3.2SG 15.0(2)SG <u>Implementing IPv6 Multicast</u>	12.2(33)SRA <u>IPv6 Multicast: PIM Sparse Mode</u>	12.2(1) 12.2(5) 15.0(1) 15.1(1) IPv6 M PIM S Mode
IPv6 Multicast: Routable Address Hello Option	<u>Implementing IPv6 Multicast</u>	12.3(4) <u>IPv6 Multicast: Routable Address Hello Option</u>	12.4 <u>IPv6 Multicast: Routable Address Hello Option</u>	?	12.2(40)SG 3.2SG 15.0(2)SG <u>Implementing IPv6 Multicast</u>	12.2(33)SRA <u>IPv6 Multicast: Routable Address Hello Option</u>	12.2(3) 12.2(5) 15.0(1) 15.1(1) Multi Routa Addre Option
				?			

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IPv6 Multicast: RPF Flooding of Bootstrap Packets	<u>Implementing IPv6 Multicast</u>	12.3(4) <u>Configuring Basic IP Multicast in IPv6 Networks</u>	12.4 <u>Configuring Basic IP Multicast in IPv6 Networks</u>		12.2(40)SG 3.2SG 15.0(2)SG <u>Implementing IPv6 Multicast</u>	12.2(33)SRA <u>Configuring Basic IP Multicast in IPv6 Networks</u>	12.2(3) 12.2(5) 15.0(1) 15.1(1) Confi Basic Multic IPv6 N
IPv6 Multicast: Scope Boundaries	<u>Implementing IPv6 Multicast</u>	12.3(2) <u>Configuring Basic IP Multicast in IPv6 Networks</u>	12.4 <u>Configuring Basic IP Multicast in IPv6 Networks</u>	?	12.2(40)SG 3.2SG 15.0(2)SG <u>Implementing IPv6 Multicast</u>	12.2(33)SRA <u>Configuring Basic IP Multicast in IPv6 Networks</u>	12.2(1) 12.2(5) 15.0(1) 15.1(1) Confi Basic Multic IPv6 N
IPv6 Multicast: Static Multicast Routing for IPv6	<u>Implementing IPv6 Multicast</u>	12.3(4) <u>IPv6 Multicast: Static Multicast Routing for IPv6</u>	12.4 <u>IPv6 Multicast: Static Multicast Routing for IPv6</u>	?	12.2(40)SG 3.2SG 15.0(2)SG <u>Implementing IPv6 Multicast</u>	12.2(33)SRA <u>IPv6 Multicast: Static Multicast Routing for IPv6</u>	12.2(3) 12.2(5) 15.0(1) 15.1(1) Multic Multic Routin IPv6
IPv6 Multicast VRF Lite	<u>Implementing IPv6 Multicast</u>	?	15.1(4)M <u>Configuring Basic IP Multicast in IPv6 Networks</u>	?	?	?	?
IPv6 Source Specific Multicast Mapping	<u>Implementing IPv6 Multicast</u>	12.4(2) <u>IPv6 Source Specific Multicast Mapping</u>	?	?	12.2(40)SG 3.2SG 15.0(2)SG <u>Implementing IPv6 Multicast</u>	12.2(33)SRA <u>IPv6 Source Specific Multicast Mapping</u>	12.2(1) 12.2(5) 15.0(1) 15.1(1) Source Multic Mapp
ISSU: IPv6 Multicast	<u>Implementing IPv6 Multicast</u>	?	?	?	?	?	15.0(1) 15.1(1)
MFIB Display Enhancements	<u>Implementing IPv6 Multicast</u>	12.3(7) <u>MFIB Display Enhancements</u>	12.4 <u>MFIB Display Enhancements</u>	?	12.2(40)SG 3.2SG 15.0(2)SG <u>Implementing IPv6 Multicast</u>	?	?
MLD Group Limits	<u>Implementing IPv6 Multicast</u>	12.4(2) <u>MLD Group Limits</u>	?	?	12.2(40)SG 3.2SG 15.0(2)SG	12.2(33)SRE <u>MLD Group Limits</u>	12.2(5) 15.0(1) 15.1(1)

					<u>Implementing IPv6 Multicast</u>		<u>MLD Limits</u>
MLD Proxy	<u>Implementing IPv6 Multicast</u>	15.1(2) <u>MLD Proxy</u>	?	?	?	?	?
Multicast User Authentication and Profile Support	<u>Implementing IPv6 Multicast</u>	12.4(4) <u>Multicast User Authentication and Profile Support</u>	?	?	12.2(40)SG 3.2SG 15.0(2)SG <u>Implementing IPv6 Multicast</u>	?	?
NSF/SSO: IPv6 Multicast	<u>Implementing IPv6 Multicast</u>	?	?	?	?	12.2(33)SRE	15.0(1) 15.1(1)
PIMv6: Anycast RP Solution	<u>PIMv6: Anycast RP Solution</u>	15.2(3) <u>Configuring Basic IP Multicast in IPv6 Networks</u>	?	?	?	15.1(3)S <u>Configuring Basic IP Multicast in IPv6 Networks</u>	15.1(1) <u>Configuring Basic IP Multicast in IPv6 Networks</u>

NAT Protocol Translation (NAT-PT) Features

Feature	IPv6 Implementation Guide	12.xT/ 15.xT Release	12.xM/ 15.xM Release	12.2SE Release	12.2SG, 15.xSG, and 3.xSG Release	12.2SR/ 15S Release	12.2SX/ 12.2SY/ 15.0SY Release
NAT Protocol Translation (NAT-PT)	<u>Implementing NAT Protocol Translation</u>	12.2(13) <u>NAT-PT for IPv6</u>	12.3 <u>NAT-PT for IPv6</u>	?	?	?	?
NAT-PT: Support for DNS ALG	<u>Implementing NAT Protocol Translation</u>	12.2(13) <u>NAT-PT for IPv6</u>	12.3 <u>NAT-PT for IPv6</u>	?	?	?	?
NAT-PT: Support for FTP ALG	<u>Implementing NAT Protocol Translation</u>	12.3(2) <u>NAT-PT for IPv6</u>	12.4 <u>NAT-PT for IPv6</u>	?	?	?	?
NAT-PT: Support for Fragmentation	<u>Implementing NAT Protocol Translation</u>	12.3(2) <u>NAT-PT for IPv6</u>	12.4 <u>NAT-PT for IPv6</u>	?	?	?	?
NAT-PT: Support for Overload (PAT)	<u>Implementing NAT Protocol Translation</u>	12.3(2) <u>NAT-PT for IPv6</u>	12.4 <u>NAT-PT for IPv6</u>	?	?	?	?

IPv6 Tunnel Services Features

Feature	IPv6 Configuration Guide	12.xT/ 15.xT Release	12.xM/ 15.xM Release	12.2SE Release	12.2SG, 15.xSG, and 3.xSG Release	12.2SR/ 15S Release	12.2SX/ 12.2SY/ 15.0SY Release
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					Release		
CLNS Support for GRE IPv6 and IPv4 Tunnels	<u>Implementing Tunneling for IPv6</u>	12.3(7) <u>IPv6 GRE Tunnels in CLNS Networks</u>	12.4 <u>IPv6 GRE Tunnels in CLNS Networks</u>	?	?	12.2(33)SRA <u>IPv6 GRE Tunnels in CLNS Networks</u>	12.2(33)SXH 12.2(50)SY 15.0(1)SY 15.1(1)SY <u>IPv6 GRE Tunnels in CLNS Networks</u>
IP Over IPv6 Tunnels	<u>Implementing Tunneling for IPv6</u>	12.3(7) <u>IP over IPv6 Tunnels</u>	12.4 <u>IP over IPv6 Tunnels</u>	?	?	12.2(30)S <u>IP over IPv6 Tunnels</u>	?
IPv6 Rapid Deployment	<u>Implementing Tunneling for IPv6</u>	15.1(3) <u>IPv6 Rapid Deployment</u>	?	?	?	?	?
IPv6 Tunneling: Automatic 6to4 Tunnels	<u>Implementing Tunneling for IPv6</u>	12.2(2) <u>IPv6 Tunneling: Automatic 6to4 Tunnels</u>	12.3 <u>IPv6 Tunneling: Automatic 6to4 Tunnels</u>	?	12.2(25)SG 3.2SG 15.0(2)SG <u>Implementing Tunneling for IPv6</u>	12.2(33)SRA <u>IPv6 Automatic 6to4 Tunnels</u>	12.2(18)SXE 12.2(50)SY 15.0(1)SY 15.1(1)SY <u>IPv6 Automatic 6to4 Tunnels</u>
IPv6 Tunneling: Automatic IPv4-Compatible Tunnels	<u>Implementing Tunneling for IPv6</u>	12.2(2) <u>IPv6 Automatic 6to4 Tunnels</u>	12.3 <u>IPv6 Automatic 6to4 Tunnels</u>	?	12.2(25)SG 3.2SG 15.0(2)SG <u>Implementing Tunneling for IPv6</u>	12.2(33)SRA <u>IPv6 Automatic IPv4-Compatible Tunnels</u>	12.2(18)SXE 12.2(50)SY 15.0(1)SY 15.1(1)SY <u>IPv6 Automatic IPv4-Compatible Tunnels</u>
IPv6 Tunneling: IPv6 over IPv4 GRE Tunnels	<u>Implementing Tunneling for IPv6</u>	12.2(4) <u>IPv6 over IPv4 GRE Tunnels</u>	12.3 <u>IPv6 over IPv4 GRE Tunnels</u>	?	?	12.2(33)SRA <u>IPv6 over IPv4 GRE Tunnels</u>	12.2(17a)SX1 12.2(50)SY 15.0(1)SY 15.1(1)SY <u>IPv6 over IPv4 GRE Tunnels</u>
IPv6 Tunneling: ISATAP Tunnel Support	<u>Implementing Tunneling for IPv6</u>	12.2(15) <u>ISATAP Tunnel Support for IPv6</u>	12.3 <u>ISATAP Tunnel Support for IPv6</u>	?	12.2(25)SG 3.2SG 15.0(2)SG <u>Implementing Tunneling for IPv6</u>	12.2(33)SRA <u>ISATAP Tunnel Support for IPv6</u>	12.2(17a)SX1 12.2(50)SY 15.0(1)SY 15.1(1)SY <u>ISATAP Tunnel Support for IPv6</u>
IPv6 Tunneling: Manually Configured IPv6 over IPv4 Tunnels	<u>Implementing Tunneling for IPv6</u>	12.2(2) <u>Manually Configured IPv6 over IPv4 Tunnels</u>	12.3 <u>Manually Configured IPv6 over IPv4 Tunnels</u>	?	12.2(25)SG 3.2SG 15.0(2)SG <u>Implementing Tunneling for IPv6</u>	12.2(33)SRA	12.2(17a)SX1 12.2(50)SY 15.0(1)SY 15.1(1)SY <u>Manually Configured IPv6 over IPv4</u>

							<u>Tunnels</u>
mGRE Tunnel Support Over IPv6	<u>Implementing Tunneling for IPv6</u>	15.2(1) <u>mGRE Tunnel Support Over IPv6</u>	?	?	?	?	?

IPv6 Quality of Service Features

Feature	IPv6 Implementation Guide	12.xT/ 15.xT Release	12.xM/15.xM Release	12.2SE Release	12.2SG, 15.xSG, and 3.xSG Release	12.2SR 15S Release
IPv6 Quality of Service	<u>Implementing QoS for IPv6</u>	12.2(13) <u>IPv6 Quality of Service</u>	12.3 <u>IPv6 Quality of Service</u>	?	12.2(50)SG 3.2SG 15.0(2)SG <u>Implementing QoS for IPv6</u>	12.2(33)SRA <u>Quality of Service</u>
IPv6: QoS Trust	<u>Configuring QoS</u>	?	?	(52)	12.2(50)SG 3.2SG 15.0(2)SG	?
IPv6 QoS: MQC Packet Classification	<u>Implementing QoS for IPv6</u>	12.2(13) <u>IPv6 QoS: MQC Packet Classification</u>	12.3 <u>IPv6 QoS: MQC Packet Classification</u>	?	12.2(50)SG 3.2SG 15.0(2)SG <u>Implementing QoS for IPv6</u>	12.2(33)SRA <u>QoS: MQC P</u> <u>Classification</u>
IPv6 QoS: MQC Packet Marking/Remarking	<u>Implementing QoS for IPv6</u>	12.2(13) <u>IPv6 QoS: MQC Packet Marking/Remarking</u>	12.3 <u>IPv6 QoS: MQC Packet Marking/Remarking</u>	?	12.2(50)SG 3.2SG 15.0(2)SG <u>Implementing QoS for IPv6</u>	12.2(33)SRA <u>QoS: MQC P</u> <u>Marking/Rem</u>
IPv6 QoS: MQC Traffic Policing	<u>Implementing QoS for IPv6</u>	12.2(13) <u>IPv6 QoS: MQC Traffic Policing</u>	12.3 <u>IPv6 QoS: MQC Traffic Policing</u>	?	12.2(50)SG 3.2SG 15.0(2)SG <u>Implementing QoS for IPv6</u>	12.2(33)SRA <u>QoS: MQC T</u> <u>Policing</u>
IPv6 QoS: MQC Traffic Shaping	<u>Implementing QoS for IPv6</u>	12.2(13) <u>IPv6 QoS: MQC Traffic Shaping</u>	12.3 <u>IPv6 QoS: MQC Traffic Shaping</u>	?	12.2(50)SG 3.2.0SG 15.0(2)SG <u>Implementing QoS for IPv6</u>	12.2(33)SRA <u>QoS: MQC T</u> <u>Shaping</u>
IPv6 QoS: MQC WRED-Based Drop	<u>Implementing QoS for IPv6</u>	12.2(13) <u>IPv6 QoS: MQC WRED-Based Drop</u>	12.3 <u>IPv6 QoS: MQC WRED-Based Drop</u>	?	12.2(50)SG 3.2SG 15.0(2)SG <u>Implementing QoS for IPv6</u>	12.2(33)SRA <u>QoS: MQC</u> <u>WRED-Based</u>
IPv6 QoS: Queueing	<u>Implementing QoS for IPv6</u>	12.2(13) <u>IPv6 QoS: Queueing</u>	12.3 <u>IPv6 QoS: Queueing</u>	?	12.2(50)SG 3.2SG 15.0(2)SG	12.2(33)SRA

IPv6 Support for NBAR	?	15.2(2)	?	?	?	?
NBAR IPv6 Transition Mechanism Detection	?	15.1(3)	?	?	?	?

IPv6 Voice Features

Feature	IPv6 Configuration Guide	12.xT/ 15.xT Release	12.xM/ 15.xM Release	12.2SE Release	12.2SG, 15.xSG, and 3.xSG Release	12.2SR/ 15S Release	12.2SX/ 12.2SY/ 15.0SY Release
Cisco UBE Support for IPv6	Implementing Voice over IPv6	12.4(24) VoIP for IPv6	?	?	?	?	?
CUBE RTCP Voice Pass-Through for IPv6	?	15.2(1) CUBE RTCP Voice Pass-Through for IPv6	?	?	?	?	?
DSCP-Based QoS Support	Implementing Voice over IPv6	12.4(22) VoIP for IPv6	?	?	?	?	?
IPv6 Dual Stack	Implementing Voice over IPv6	12.4(22) VoIP for IPv6	?	?	?	?	?
RTP/RTCP Over IPv6	Implementing Voice over IPv6	12.4(22) VoIP for IPv6	?	?	?	?	?
T.38 Fax Support on CUBE for IPv6	?	15.2(1) T.38 Fax Support on CUBE for IPv6	?	?	?	?	?
TDM-SIP GW for IPv6	Implementing Voice over IPv6	12.4(24) VoIP for IPv6	?	?	?	?	?
Voice Gateway/MTP	Implementing Voice over IPv6	12.4(24) VoIP for IPv6	?	?	?	?	?

IPv6 Data Link-Layer Features

Feature	IPv6 Implementation Guide	12.xT/ 15.xT Release	12.xM/ 15.xM Release	12.2SE Release	12.2SG, 15.xSG, and 3.xSG Release	12.2SR/ 15S Release	12.2SX/ 12.2SY/ 15.0SY Release
IPv6 Data Link: VLANs Using Cisco	Implementing IPv6 Addressing and Basic	12.2(2) IPv6 Addressing and Basic	12.3 IPv6 Addressing and Basic	(25)SEA	12.2(25)SG 3.2SG 15.0(2)SG	12.2(33)SRA IPv6 Addressing	12.2(18)SXE 12.2(50)SY 15.0(1)SY

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Inter-Switch Link (ISL)	<u>Connectivity</u>	<u>Connectivity</u>	<u>Connectivity</u>			<u>and Basic Connectivity</u>	15.1(1)SY <u>IPv6 Addressing and Basic Connectivity</u>
IPv6 Data Link: VLANs Using IEEE 802.1Q Encapsulation	<u>Implementing IPv6 Addressing and Basic Connectivity</u>	12.2(2) <u>IPv6 Addressing and Basic Connectivity</u>	12.3 <u>IPv6 Addressing and Basic Connectivity</u>	(25)SEA	12.2(25)SG 3.2SG 15.0(2)SG	12.2(33)SRA <u>IPv6 Addressing and Basic Connectivity</u>	12.2(18)SXE 12.2(50)SY 15.0(1)SY 15.1(1)SY <u>IPv6 Addressing and Basic Connectivity</u>

Additional Information

- [IPv6 Configuration Guide, Cisco IOS Release 15.1M&T](#)
- [Cisco IPv6 Knowledge Base Portal](#)
- [Cisco IPv6 Main Page](#)