

This table lists the IPv6 features supported in the Cisco NX-OS 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 NX-OS software release train also support that feature.

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IPv6 Forwarding Features

Feature	Cisco MDS 9000				Cisco Nexus 7000 Series Switches					
	Where Documented	Release 3.x	Release 4.x	Release 5.0	Where Documented	Release 4.0	Release 4.1	Release 4.2	Release 5.0	Release 5.1
IPv6 Forwarding Features										
IPv6?ICMPv6	Configuring IPv6	X			Configuring IPv6		X			
IPv6?ICMPv6 Redirect					Configuring IPv6		X			
IPv6?IPv6 Neighbor Discovery	Configuring IPv6	X			Configuring IPv6		X			
IPv6?6PE/6VPE					Configuring MPLS Layer 3 VPNs					
IPv6?Label Allocation					Configuring MPLS Layer 3 VPN Label Allocation					
IPv6 ND-Duplicate Address Detection	Configuring IPv6	X			Configuring IPv6		X			
IPv6?BFD					Configuring Bidirectional Forwarding Detection				X	
IPv6?BFD for IPv6 Static					Configuring Bidirectional Forwarding Detection on					

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					<u>IPv6 Static Routes</u>					
IPv6?Layer 3 Interfaces					<u>Configuring Layer 3 Interfaces</u>	X				
IPv6?uRPF					<u>Configuring Unicast RPF</u>		X			

IPv6 Fast Convergence Features

Feature	Cisco MDS 9000				Cisco Nexus 7000 Series Switches					
	Where Documented	Release 3.x	Release 4.x	Release 5.0	Where Documented	Release 4.0	Release 4.1	Release 4.2	Release 5.0	Release 5.1
IPv6 Fast Convergence Features										
BGPv6					<u>Configuring Basic BGP</u> <u>Configuring Advanced BGP</u>			X		
IPv6?HSRPv6					<u>Configuring HSRP</u>				X	
VRRPv3					<u>Configuring VRRPv3</u>					

IPv6 Routing Features

Feature	Cisco MDS 9000				Cisco Nexus 7000 Series Switches					
	Where Documented	Release 3.x	Release 4.x	Release 5.0	Where Documented	Release 4.0	Release 4.1	Release 4.2	Release 5.0	Release 5.1
IPv6 Routing Features										
IP Routing?OSPF					<u>Configuring OSPFv3</u>	X				
IPv6?EIGRPv6 Enhanced Interior Gateway Routing Protocol (EIGRP)					<u>Configuring EIGRP</u>		X			
IP Routing?IBGP					<u>Configuring Advanced BGP</u>				X	
IP Routing?BGP Route Reflector					<u>Configuring Advanced BGP</u>				X	
IP Routing?IPv4					<u>Configuring IPv4 Prefix</u>					

Prefix over IPv6 in BGP					over IPv6 in BGP					
IP Routing?Route Filters					Configuring Route Policy Manager		X			

IPv6 Security, Qos, Accounting Features

Feature	Cisco MDS 9000				Cisco Nexus 7000 Series Switches					
	Where Documented	Release 3.x	Release 4.x	Release 5.0	Where Documented	Release 4.0	Release 4.1	Release 4.2	Release 5.0	Re
IPv6 Security, Qos, Accounting Features										
uRPF					Configuring uRPF		X			
LDAP over IPv6					Configuring LDAP				X	
IPv6 access control lists (ACLs)	Configuring IPv4 and IPv6 Access Control Lists	X			Configuring IP ACLs		X			
IPv6 VLAN access control lists (VACLs)					Configuring VLAN ACLs		X			
IPv6 CoPP					Configuring Control Plane Policing		X			
IPv6 QoS					Configuring Classification		X			
IPv6 Access Services?RADIUS	Configuring RADIUS and TACACS+	X			Configuring RADIUS		X			
TACACS+ over IPv6	Configuring RADIUS and TACACS+	X			Configuring TACACS+		X			

IPv6 Multicast Features

Feature	Cisco MDS 9000				Cisco Nexus 7000 Series Switches					
	Where Documented	Release 3.x	Release 4.x	Release 5.0	Where Documented	Release 4.0	Release 4.1	Release 4.2	Release 5.0	
IPv6 Multicast Features										
IPv6 Multicast?Bidirectional Protocol Independent Multicast (Bidir PIM)					Configuring PIM and PIM6		X			
IPv6 Multicast?Multicast Listener Discovery					Configuring MLD	X				

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(MLD) Protocol v1/v2									
IPv6 Multicast?PIMv6-ASM					Configuring PIM and PIM6	X			
IPv6 Multicast?PIMv6-Sparse Mode					Configuring PIM and PIM6	X			
IPv6 Multicast?PIMv6-SSM					Configuring PIM and PIM6		X		
IP Multicast?BSR					Configuring PIM and PIM6			X	
IPv6 Multicast?MLD Access Group					Configuring MLD	X			

IPv6 Manageability Features

	Cisco MDS 9000				Cisco Nexus 4000 Series Switches		Cisco Nex	
Feature	Where Documented	Release 3.x	Release 4.x	Release 5.0	Where Documented	Release 4.1(2)E1(1)	Where Documented	Release 4.0
IPv6 Manageability Features								
Ping	Cisco MDS9000 Family CLI Guide	X			Using the Command-Line Interface	X	Cisco Nexus 7000 Series NX-OS Fundamentals Commands	X
Traceroute	Cisco MDS9000 Family CLI Guide	X					Cisco Nexus 7000 Series NX-OS Fundamentals Commands	X
Telnet					Configuring SSH and Telnet	X	Configuring SSH and Telnet	
SSH (SCP)					Configuring SSH and Telnet	X	Configuring SSH and Telnet	
SCP Server							Configuring SSH Server	
Syslog	Configuring System Message Logging	X					Configuring System Message Logging	
SNMP v1/v2/v3	Configuring SNMP	X					Configuring SNMP	
API(XML)							Cisco DCNM Web Services API Guide	

IPv6 Features

Feature	Cisco MDS 9000				Cisco Nexus 7000 Series Switches					
	Where Documented	Release 3.x	Release 4.x	Release 5.0	Where Documented	Release 4.0	Release 4.1	Release 4.2	Release 5.0	Release 5.1
IPv6 Features										
IPv6?Addressing	<u>Configuring IPv6</u>	X			<u>Configuring IPv6</u>	X				
IPv6?CDP					<u>Configuring IPv6</u>			X		
IPv6?CMP					<u>Connecting, Configuring, and Upgrading the CMP</u>				X	
IPv6?DNS					<u>Configuring IPv6</u>			X		
IPv6?DHCP Relay					<u>DHCP Relay</u>					
IPv6?IPv6 Path MTU Discovery	<u>Configuring IPv6</u>	X			<u>Configuring IPv6</u>		X			
IPv6?IPv6 PBR					<u>Configuring Policy-Based Routing</u>			X		
IPv6?NetFlow					<u>Configuring NetFlow</u>		X			
IPv6?Object Tracking					<u>Configuring Object Tracking</u>				X	
IPv6?Packet Verification					<u>Configuring IPv6</u>	X				
IPv6?Prefix Lists					<u>Configuring Route Policy Manager</u>				X	
IPv6?Port Channels					<u>Configuring LACP</u>	X				

IPv6 Services and Management Features

Feature	Cisco MDS 9000				Cisco Nexus 7000 Series Switches					
	Where Documented	Release 3.x	Release 4.x	Release 5.0	Where Documented	Release 4.0	Release 4.1	Release 4.2	Release 5.0	Release 5.1
IPv6 Services and Management Features										
Call Home	<u>Configuring Call Home</u>	X			<u>Configuring Smart Call Home</u>			X		
NTP	<u>Configuring NTP</u>	X			<u>Configuring NTP</u>				X	

IPv6 Unicast Route Memory Resource					<u>Managing VDCs</u>		X				
IPv6 Multicast Route Memory Resource					<u>Managing VDCs</u>		X				

Additional Information

- [Cisco IPv6 Knowledge Base Portal](#)
- [Cisco IPv6 Main Page](#)
- [Cisco Nexus 7000 Series Switches Configuration Guides](#)
- [Cisco Nexus 7000 Series NX-OS Unicast Routing Configuration Guide, Release 5.x](#)
- [MDS Documentation Locator](#)