

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 | | | | | |

Cisco_NX-OS_IPv6_Feature_Mapping

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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> | | | | | |

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|--------------------------|--|--|--|--|----------------------------------|--|---|--|--|--|
| 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 | | | | |

Cisco_NX-OS_IPv6_Feature_Mapping

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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

| Feature | Cisco MDS 9000 | | | | Cisco Nexus 4000 Series Switches | | Cisco Nex | |
|------------------------------------|--|-------------|-------------|-------------|--|---------------------|---|-------------|
| | 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 | |

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| 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](#)