



Platform Support for Unicast Routing Features

This chapter defines platform support for features that are not supported across the entire suite of Cisco Nexus platforms.

- [Platform Support for Unicast Routing Features, on page 1](#)

Platform Support for Unicast Routing Features

Advanced BGP

Return to [Configuring Advanced BGP](#).

Feature	Supported Platform or Line Card(s)	First Supported Release	Platform Exceptions
SVI Interfaces for BGP Interface Peering	Added support for Cisco Nexus 9000 Series switches.	9.3(6)	
BFD for BGP dynamic peers (IPv4/IPv6)	All platforms	9.3(3)	
BGP attribute filtering and enhanced error handling	All platforms	9.3(3)	
BGP graceful restart	All platforms	9.3(3)	
BGP Interface Peering via IPv6 Local-Link for IPv4 and IPv6 Address Families	All platforms	9.3(3)	
BGP route leaking	Cisco Nexus 9200, 9300-EX, and 9300-FX platform switches Cisco Nexus 9500 platform switches with -EX/FX, and -R line cards	9.3(1)	

Feature	Supported Platform or Line Card(s)	First Supported Release	Platform Exceptions
Weighted ECMP	Cisco Nexus 9200 platform switches Cisco Nexus 9300-EX platform switches	-	
Weighted ECMP	Cisco Nexus 9332PQ switch Cisco Nexus 9396PX switch Cisco Nexus 9332TX switch	9.2(1)	
ECMP, 64-way	Cisco Nexus C92348GC-X switch	9.3(1)	
ECMP, 64-way	Cisco Nexus 9800 platform switches	10.3(1)F	

Basic BGP

Return to [Configuring Basic BGP](#).

Feature	Supported Platform or Line Card(s)	First Supported Release	Platform Exceptions
BGP PIC Core	Cisco Nexus 9300-GX platform switches	Cisco NX-OS 9.3(5)	
BGP PIC edge	Cisco Nexus 9300-GX platform switches	Cisco NX-OS 9.3(3)	
BGP PIC edge	Cisco Nexus 9200, 9300-EX, and 9300-FX/FX2/FXP platform switches Cisco Nexus 9500 platform switches with the -EX/FX, and -R line cards	Cisco NX-OS 9.2(2)	

EIGRP

Return to [Configuring EIGRP](#).

Feature	Supported Platform or Line Card(s)	First Supported Release	Platform Exceptions
EIGRP Routing	Cisco Nexus 92348GC-X switch	9.3(1)	

Feature	Supported Platform or Line Card(s)	First Supported Release	Platform Exceptions
EIGRP Routing	Cisco Nexus 9000 Series switches	-	

IPv4 Routing

Return to [Configuring IPv4](#).

Feature	Supported Platform or Line Card(s)	First Supported Release	Platform Exceptions
ALPM Routing Mode	Cisco Nexus 9300 platform switches	-	
LPM Dual-Hosting Routing Mode	Cisco Nexus 9200 platform switches Cisco Nexus 9300-EX platform switches	Cisco NX-OS Release 7.0(3)I5(1)	
LPM Heavy Routing Mode	Cisco Nexus 9800 platform switches	Cisco NX-OS Release 10.3(2)F	
	Cisco Nexus 9200 platform switches Cisco Nexus 9300-EX platform switches Cisco Nexus 9508 switches with a 9732C-EX line card	Cisco NX-OS Release 7.0(3)I4(4)	
LPM Internet Peering Routing Mode	Cisco Nexus 9500-R platform switches	Cisco NX-OS Release 9.3(1)	
LPM Internet Peering Routing Mode	Cisco Nexus 9300-EX platform switches Cisco Nexus 9500 platform switches with 9700-EX line cards	Cisco NX-OS Release 7.0(3)I6(1)	
LPM Internet Peering Routing Mode	Nexus 9300-EX and 9300-FX2 switches Nexus 9300-FX/FX3 and 9300-GX switches Nexus 9300-FX/FX3 and 9300-GX switches Nexus 9700-EX/FX line cards	Cisco NX-OS Release 10.2(x)	

Feature	Supported Platform or Line Card(s)	First Supported Release	Platform Exceptions
Host Routes Internet Peering Mode	Nexus 9300-EX and 9300-FX2 switches Nexus 9300-FX/FX3 and 9300-GX switches Nexus 9700-EX/FX and N9K-X9716D-GX line cards	Cisco NX-OS Release 10.2(x)	

IPv6 Routing

Return to [Configuring IPv6](#).

Feature	Supported Platform or Line Card(s)	First Supported Release	Platform Exceptions
ALPM Routing Mode	Cisco Nexus 9300 platform switches	-	
LPM Dual-Hosting Routing Mode	Cisco Nexus 9200 platform switches Cisco Nexus 9300-EX platform switches	Cisco NX-OS Release 7.0(3)I5(1)	
LPM Heavy Routing Mode	Cisco Nexus 9800 platform switches	Cisco NX-OS Release 10.3(2)F	
	Cisco Nexus 9200 platform switches Cisco Nexus 9300-EX platform switches Cisco Nexus 9508 switch with an 9732C-EX line card	Cisco NX-OS Release 7.0(3)I4(4)	
LPM Internet Peering Routing Mode	Cisco Nexus 9500-R platform switches	Cisco NX-OS Release 9.3(1)	
LPM Internet Peering Routing Mode	Cisco Nexus 9300-EX platform switches Cisco Nexus 9500 platform switches with 9700-EX line cards	Cisco NX-OS Release 7.0(3)I6(1)	
Max Host Routing Mode	Cisco Nexus 9500 platform switches		

Feature	Supported Platform or Line Card(s)	First Supported Release	Platform Exceptions
Nonhierarchical Routing Mode	Cisco Nexus 9500 platform switches		
LPM Internet Peering Routing Mode	Nexus 9300-EX switches Nexus 9300-FX2 switches Nexus 9300-FX/FX3 and 9300-GX switches Nexus 9700-EX line cards Nexus 9700-FX line cards Nexus 9500 switches with the FM-E2 fabric line cards Nexus 9500 switches with the FM-G fabric line cards	Cisco NX-OS Release 10.2(x)	
Host Routes Internet Peering Mode	Nexus 9300-EX switches Nexus 9300-EX and 9300-FX2 switches Nexus 9300-FX/FX3 and Nexus 9300-GX switches Nexus 9700-EX line cards Nexus 9700-FX line cards	Cisco NX-OS Release 10.2(x)	

IS-IS

Return to [Configuring IS-IS](#).

Feature	Supported Platform or Line Card(s)	First Supported Release	Platform Exceptions
IS-IS over Segment Routing	Cisco Nexus 9000 Series switches	-	

Policy-Based Routing

Return to [Configuring Policy-Based Routing](#)

Feature	Supported Platform or Line Card(s)	First Supported Release	Platform Exceptions
Policy-Based Routing	Cisco Nexus 9300-GX platform switches	Cisco NX-OS 9.3(5)	

RIP

Return to [Configuring RIP](#).

Feature	Supported Platform or Line Card(s)	First Supported Release	Platform Exceptions
RIPv2	Cisco Nexus 92348GC-X switch	Cisco NX-OS 9.3(1)	
RIPv2	Cisco Nexus 9000 Series switches	-	

RIPng

Return to [Configuring RIPng](#).

Feature	Supported Platform or Line Card(s)	First Supported Release	Platform Exceptions
RIPng	Cisco Nexus 9300 and 9500 Series switches	Cisco NX-OS 10.2(3)F	-

Route Policy Manager

Return to [Configuring Route Policy Manager](#).

Feature	Supported Platform or Line Card(s)	First Supported Release	Platform Exceptions
mask option for IP prefix lists	Cisco Nexus 9200, 9300-EX, and 9300-FX platform switches and 9700-EX and 9700-FX line cards	Cisco NX-OS 9.3(3)	

Unicast Routing

Return to [Overview](#).

Feature	Supported Platform or Line Card(s)	First Supported Release	Platform Exceptions
Layer 3 Routing on FEX ports	Cisco Nexus 9300 platform switches	Cisco NX-OS Release 7.0(3)I4(2)	
Layer 3 Routing on FEX port channels	Cisco Nexus 9300 platform switches	Cisco NX-OS Release 7.0(3)I5(2)	
Layer 3 Routing on FEX ports and port channels	Cisco Nexus 9300-EX platform switches	Cisco NX-OS Release 7.0(3)I7(1)	