



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.

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Platform Support for Unicast Routing Features

Advanced BGP

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Feature	Supported Platform or Line Card(s)	First Supported Release	Platform Exceptions
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)	

Basic BGP

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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

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

IPv4 RoutingReturn 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)	
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)	
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 RoutingReturn 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)	
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		
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)	

Feature	Supported Platform or Line Card(s)	First Supported Release	Platform Exceptions
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

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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

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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

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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	-	

Route Policy Manager

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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

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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)	