New and Changed Information

This chapter describes new and changed features.

- New and Changed, on page 1

New and Changed

Your software release might not support all the features in this document. For the latest caveats and feature information, see the Bug Search Tool at https://tools.cisco.com/bugsearch/ and the release notes for your software release.

Table 1: New and Changed Features

Feature	Description	Changed in Release	Where Do
ip igmp snooping max-gq-miss command	Configures the maximum number of general query misses permitted for IGMP snooping.	6.2(2)	Configuri
MRIB/M6RIB Dynamic Shared Memory Support	The Cisco NX-OS IPv4 Multicast Routing Information Base and IPv6 Multicast Routing Information Base (MRIB/M6RIB) dynamic shared memory support feature supports dynamic shared memory in a virtual device context (VDC). Instead of a static allocation of the entire configured memory for the multicast routes, the shared memory for MRIB/M6RIB dynamically adds up or is removed based on the increase or decrease, respectively, in the number of routes. The MRIB/M6RIB dynamic shared memory feature also supports device switchover (from active to standy state and vice-versa) when the shared memory increases or decreases.	6.2(2)	MRIB an
Multicast performance enhancement	Enables enhanced multicast performance on Cisco Nexus 7000 Series Ethernet modules with an XL Option allocated to virtual device contexts (VDCs).	6.2(2)	Enabling Enhancer

Feature	Description	Changed in Release	Where Docu
ip igmp groups and **ip igmp route** commands	Commands updated with summary parameter. • **ip igmp groups** • **ip igmp route**	6.1(1)	Configuring
Configuring F2 modules	Cisco NX-OS does not support PIM Bidir mode on F2 modules.	6.0(1)	Configuring
Configuring F2 modules	F2 modules do not support any form of IPv4 or IPv6 tunnels.	6.0(1)	Configuring
Configuring lookup mode to MAC and assigning a static MAC address	You can configure IGMP snooping to use the forwarding lookup mode as MAC-based, as well as assign a static MAC address.	5.2(1)	Configuring
Configuring PIMv4 on GRE tunnel interfaces	You can configure multicast on GRE tunnel interfaces including outgoing interfaces (OIFs).	5.2(1)	Configuring
Configuring multicast interoperation with F Series modules	You can configure multicast interoperation with F series and M series modules.	5.1(1)	Configuring N7K-F132-1
Multicast routing initial holddown period	You can specify the initial holddown period for both IPv4 and IPv6 networks.	4.2(1)	Configuring
Use a route-map policy for commands	You can specify group prefixes in a route-map policy rather than specifying them on the command line for these commands: • **ip igmp join-group** • **ip igmp static-oif** • **ip pim rp-address** • **ip pim ssm range** • **ipv6 [icmp] mld join-group** • **ipv6 [icmp] mld static-oif** • **ipv6 pim rp-address** • **ipv6 pim ssm range**	4.2(1)	Configuring Configuring Configuring Configuring
Virtual Port Channel (vPC)	Cisco NX-OS software for the Nexus 7000 Series devices does not support PIM SSM or Bidr on vPCs. Cisco NX-OS software fully supports PIM ASM on vPCs.	4.1(4)	Virtual Port

Feature	Description	Changed in Release	Where Do
Virtual Port Channel (vPC)	A virtual port channel (vPC) allows a single device to use a port channel across two upstream switches.	4.1(3)	Virtual Po Verifying Configuri Guideline Snooping Displayin
Immediate leave	Option that minimizes the leave latency of IGMPv2 or MLDv1 group memberships on a given IGMP or MLD interface because the device does not send group-specific queries.	4.1(3)	Configuri Configuri