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Preface

This preface describes the audience, organization, and conventions of the *Cisco Nexus 5000 Series NX-OS Multicast Routing Configuration Guide, Release 5.0(3)N1(1)*. It also provides information on how to obtain related documentation.

This chapter includes the following sections:

- [Audience, page 1](#)
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Audience

This publication is for experienced users who configure and maintain Cisco NX-OS switches.

Supported Switches

This section includes the following topics:

- [Cisco Nexus 5000 Platform Switches, page 1](#)
- [Cisco Nexus 5500 Platform Switches, page 2](#)

Cisco Nexus 5000 Platform Switches

[Table 1](#) lists the Cisco switches supported in the Cisco Nexus 5000 Platform:



Note

For more information on these switches, see the *Cisco Nexus 5500 Platform and Cisco Nexus 5000 Platform Hardware Installation Guide* available at the following URL:

http://www.cisco.com/en/US/products/ps9670/tsd_products_support_series_home.html

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Table 1 Supported Cisco Nexus 5000 Platform Switches

Switch	Description
Cisco Nexus 5010 Switch	The Cisco Nexus 5010 is a 1 rack unit (RU) switch. It delivers 500 Gbps of wire-speed switching capacity designed for traditional, virtualized, unified, and high-performance computing (HPC) environments.
Cisco Nexus 5020 Switch	The Cisco Nexus 5020 is a 2 rack unit (RU) switch. It delivers 1+ Tbps of wire-speed switching capacity designed for traditional, virtualized, unified, and HPC environments.



Note

The Cisco Nexus 5000 Platform switches only support Internet Group Management Protocol (IGMP) snooping. IGMP, Protocol Independent Multicast (PIM), and Multicast Source Discovery Protocol (MSDP) are not supported on these switches.

Cisco Nexus 5500 Platform Switches

Table 2 lists the Cisco switches supported in the Cisco Nexus 5500 Platform:



Note

For more information on these switches, see the *Cisco Nexus 5500 Platform and Cisco Nexus 5000 Platform Hardware Installation Guide* available at the following URL:
http://www.cisco.com/en/US/products/ps9670/tsd_products_support_series_home.html

Table 2 Supported Cisco Nexus 5500 Platform Switches

Switch	Description
Cisco Nexus 5548P Switch	The Cisco Nexus 5548P switch is the first switch in the Cisco Nexus 5500 Platform. It is a one-rack-unit (1 RU), 10-Gigabit Ethernet and Fibre Channel over Ethernet (FCoE) switch that offers up to 960 Gbps throughput and up to 48 ports.
Cisco Nexus 5596P Switch	The Cisco Nexus 5596P switch is a top-of-rack, 10-Gigabit Ethernet and FCoE switch offering up to 1920 Gigabit throughput and up to 96 ports.

Organization

This document is organized as follows:

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Chapter and Title	Description
Chapter 1, “Overview”	Describes the Cisco NX-OS multicast features.
Chapter 1, “Configuring IGMP”	Describes how to configure the Cisco NX-OS IGMP features.
Chapter 1, “Configuring PIM”	Describes how to configure the Cisco NX-OS PIM features.
Chapter 1, “Configuring IGMP Snooping”	Describes how to configure the Cisco NX-OS IGMP snooping feature.
Chapter 1, “Configuring MSDP”	Describes how to configure the Cisco NX-OS MSDP feature.
Appendix 1, “IETF RFCs for IP Multicast”	Contains the RFCs related to the Cisco NX-OS multicast features.

Document Conventions

Command descriptions use these conventions:

Convention	Description
boldface font	Commands and keywords are in boldface.
<i>italic font</i>	Arguments for which you supply values are in italics.
[]	Elements in square brackets are optional.
[x y z]	Optional alternative keywords are grouped in brackets and separated by vertical bars.
string	A nonquoted set of characters. Do not use quotation marks around the string or the string will include the quotation marks.

Screen examples use these conventions:

screen font	Terminal sessions and information that the switch displays are in screen font.
boldface screen font	Information you must enter is in boldface screen font.
<i>italic screen font</i>	Arguments for which you supply values are in italic screen font.
< >	Nonprinting characters, such as passwords, are in angle brackets.
[]	Default responses to system prompts are in square brackets.
!, #	An exclamation point (!) or a pound sign (#) at the beginning of a line of code indicates a comment line.

This document uses the following conventions:



Note

Means reader *take note*. Notes contain helpful suggestions or references to material not covered in the manual.

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Caution

Means *reader be careful*. In this situation, you might do something that could result in equipment damage or loss of data.



Tip

Means *the following information will help you solve a problem*.

Related Documentation

Documentation for Cisco Nexus 5000 Series switches and Cisco Nexus 2000 Series Fabric Extender is available at the following URL:

http://www.cisco.com/en/US/products/ps9670/tsd_products_support_series_home.html

The following are related Cisco Nexus 5000 Series and Cisco Nexus 2000 Series Fabric Extender documents:

Release Notes

Cisco Nexus 5000 Series and Cisco Nexus 2000 Series Release Notes

Cisco Nexus 5000 Series Switch Release Notes

Configuration Guides

Cisco Nexus 5000 Series Configuration Limits for Cisco NX-OS Release 5.0(3)N1(1)

Cisco Nexus 5000 Series Configuration Limits for Cisco NX-OS Release 5.0(2)N1(1)

Cisco Nexus 5000 Series Configuration Limits for Cisco NX-OS Release 4.2(1)N1(1) and Release 4.2(1)N2(1)

Cisco Nexus 5000 Series NX-OS Fibre Channel over Ethernet Configuration Guide

Cisco Nexus 5000 Series NX-OS Layer 2 Switching Configuration Guide

Cisco Nexus 5000 Series NX-OS Multicast Routing Configuration Guide

Cisco Nexus 5000 Series NX-OS Quality of Service Configuration Guide

Cisco Nexus 5000 Series NX-OS SAN Switching Configuration Guide

Cisco Nexus 5000 Series NX-OS Security Configuration Guide

Cisco Nexus 5000 Series NX-OS System Management Configuration Guide

Cisco Nexus 5000 Series NX-OS Unicast Routing Configuration Guide

Cisco Nexus 5000 Series Switch NX-OS Software Configuration Guide

Cisco Nexus 5000 Series Fabric Manager Configuration Guide, Release 3.4(1a)

Cisco Nexus 7000 Series NX-OS Fundamentals Configuration Guide, Release 4.2

Cisco Nexus 2000 Series Fabric Extender Software Configuration Guide

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Maintain and Operate Guides

Cisco Nexus 5000 Series NX-OS Operations Guide

Installation and Upgrade Guides

Cisco Nexus 5000 Series and Cisco Nexus 5500 Platform Hardware Installation Guide

Cisco Nexus 2000 Series Hardware Installation Guide

Cisco Nexus 5000 Series NX-OS Software Upgrade and Downgrade Guide, Release 4.2(1)N1(1)

Regulatory Compliance and Safety Information for the Cisco Nexus 5000 Series Switches and Cisco Nexus 2000 Series Fabric Extenders

Licensing Guide

Cisco NX-OS Licensing Guide

Command References

Cisco Nexus 5000 Series Command Reference

Technical References

Cisco Nexus 5000 Series and Cisco Nexus 2000 Series Fabric Extender MIBs Reference

Error and System Messages

Cisco NX-OS System Messages Reference

Troubleshooting Guide

Cisco Nexus 5000 Troubleshooting Guide

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, submitting a service request, and gathering additional information, see the monthly *What's New in Cisco Product Documentation*, which also lists all new and revised Cisco technical documentation, at:

<http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>

Subscribe to the *What's New in Cisco Product Documentation* as an RSS feed and set content to be delivered directly to your desktop using a reader application. The RSS feeds are a free service. Cisco currently supports RSS Version 2.0.

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