



Preface

This preface describes the audience, organization, and conventions of the *Cisco Nexus 7000 Series NX-OS Unicast Routing Configuration Guide, Release 5.x*. It also provides information on how to obtain related information.

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Audience

To use this guide, you must be familiar with IP and routing technology.

Organization

This document is organized into the following chapters:

Title	Description
Chapter 1, “Overview”	Presents an overview of unicast routing and brief descriptions of each feature.
Chapter 2, “Configuring IPv4”	Describes how to configure and manage IPv4, including ARP and ICMP.
Chapter 3, “Configuring IPv6”	Describes how to configure and manage IPv6, including the Neighbor Discovery Protocol and ICMPv6.
Chapter 4, “Configuring DNS”	Describes how to configure DHCP and DNS clients.
Chapter 5, “Configuring WCCPv2”	Describes how to configure WCCPv2.
Chapter 6, “Configuring OSPFv2”	Describes how to configure the OSPFv2 routing protocol for IPv4 networks.
Chapter 7, “Configuring OSPFv3”	Describes how to configure the OSPFv3 routing protocol for IPv6 networks.

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Title	Description
Chapter 8, “Configuring EIGRP”	Describes how to configure the Cisco EIGRP routing protocol for IPv4 networks.
Chapter 9, “Configuring IS-IS”	Describes how to configure the IS-IS routing protocol for IPv4 and IPv6 networks.
Chapter 10, “Configuring Basic BGP”	Describes how to configure basic features for the BGP routing protocol for IPv4 and IPv6 networks.
Chapter 11, “Configuring Advanced BGP”	Describes how to configure advanced features for the BGP routing protocol for IPv4 and IPv6 networks, including route redistribution and route aggregation.
Chapter 12, “Configuring RIP”	Describes how to configure the RIP for IPv4 networks.
Chapter 13, “Configuring Static Routing”	Describes how to configure static routing for IPv4 and IPv6 networks.
Chapter 14, “Configuring Layer 3 Virtualization”	Describes how to configure Layer 3 virtualization.
Chapter 15, “Managing the Unicast RIB and FIB”	Describes how to view and modify the unicast RIB and FIB.
Chapter 16, “Configuring Route Policy Manager”	Describes how to configure the Route Policy Manager, including IP prefix lists and route maps for filtering and redistribution.
Chapter 17, “Configuring Policy-Based Routing”	Describes how to configure route maps for policy based routing.
Chapter 18, “Configuring GLBP”	Describes how to configure GLBP.
Chapter 19, “Configuring HSRP”	Describes how to configure the Hot Standby Routing Protocol.
Chapter 20, “Configuring VRRP”	Describes how to configure the Virtual Router Redundancy Protocol.
Chapter 21, “Configuring Object Tracking”	Describes how to configure object tracking.
Appendix A, “IETF RFCs supported by Cisco NX-OS Unicast Features, Release 5.x”	Lists IETF RFCs supported by Cisco NX-OS.
Appendix B, “Configuration Limits for Cisco NX-OS Layer 3 Unicast Features”	Lists configuration limits for Cisco Nexus 7000 series devices.

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.

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[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:

<code>screen font</code>	Terminal sessions and information that the switch displays are in screen font.
boldface screen font	Information that 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.



Caution

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

Related Documentation

Cisco NX-OS includes the following documents:

Release Notes

Cisco Nexus 7000 Series NX-OS Release Notes, Release 5.x

NX-OS Configuration Guides

Cisco Nexus 7000 Series NX-OS Configuration Examples, Release 5.x

Configuring the Cisco Nexus 2000 Series Fabric Extender

Cisco Nexus 7000 Series NX-OS FabricPath Configuration Guide

Configuring Feature Set for FabricPath

Cisco NX-OS FCoE Configuration Guide for Cisco Nexus 7000 and Cisco MDS 9500

Cisco Nexus 7000 Series NX-OS Fundamentals Configuration Guide, Release 5.x

Cisco Nexus 7000 Series NX-OS High Availability and Redundancy Guide, Release 5.x

Cisco Nexus 7000 Series NX-OS Interfaces Configuration Guide, Release 5.x

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Cisco Nexus 7000 Series NX-OS IP SLAs Configuration Guide
Cisco Nexus 7000 Series NX-OS Layer 2 Switching Configuration Guide, Release 5.x
Cisco Nexus 7000 Series NX-OS LISP Configuration Guide
Cisco Nexus 7000 Series NX-OS MPLS Configuration Guide
Cisco Nexus 7000 Series NX-OS Multicast Routing Configuration Guide, Release 5.x
Cisco Nexus 7000 Series NX-OS OTV Configuration Guide
Cisco Nexus 7000 Series OTV Quick Start Guide
Cisco Nexus 7000 Series NX-OS Quality of Service Configuration Guide, Release 5.x
Cisco Nexus 7000 Series NX-OS SAN Switching Configuration Guide
Cisco Nexus 7000 Series NX-OS Security Configuration Guide, Release 5.x
Cisco Nexus 7000 Series NX-OS System Management Configuration Guide, Release 5.x
Cisco Nexus 7000 Series NX-OS Unicast Routing Configuration Guide, Release 5.x
Cisco Nexus 7000 Series NX-OS Virtual Device Context Configuration Guide, Release 5.x
Cisco Nexus 7000 Series NX-OS Virtual Device Context Quick Start, Release 5.x

NX-OS Command References

Cisco Nexus 7000 Series NX-OS Command Reference Master Index
Cisco Nexus 7000 Series NX-OS FabricPath Command Reference
Cisco NX-OS FCoE Command Reference for Cisco Nexus 7000 and Cisco MDS 9500
Cisco Nexus 7000 Series NX-OS Fundamentals Command Reference
Cisco Nexus 7000 Series NX-OS High Availability Command Reference
Cisco Nexus 7000 Series NX-OS Interfaces Command Reference
Cisco Nexus 7000 Series NX-OS Layer 2 Switching Command Reference
Cisco Nexus 7000 Series NX-OS LISP Command Reference
Cisco Nexus 7000 Series NX-OS MPLS Command Reference
Cisco Nexus 7000 Series NX-OS Multicast Routing Command Reference
Cisco Nexus 7000 Series NX-OS OTV Command Reference
Cisco Nexus 7000 Series NX-OS Quality of Service Command Reference
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Cisco Nexus 7000 Series NX-OS Security Command Reference
Cisco Nexus 7000 Series NX-OS System Management Command Reference
Cisco Nexus 7000 Series NX-OS Unicast Routing Command Reference
Cisco Nexus 7000 Series NX-OS Virtual Device Context Command Reference

Other Software Documents

Cisco NX-OS Licensing Guide
Cisco Nexus 7000 Series NX-OS MIB Quick Reference
Cisco Nexus 7000 Series NX-OS Software Upgrade and Downgrade Guide, Release 5.x

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Cisco NX-OS System Messages Reference

Cisco Nexus 7000 Series NX-OS Troubleshooting Guide

Cisco NX-OS XML Interface User Guide

Obtain Documentation and Submit a Service Request

For information on obtaining documentation, using the Cisco Bug Search Tool (BST), submitting a service request, and gathering additional information, see [What's New in Cisco Product Documentation](#).

To receive new and revised Cisco technical content directly to your desktop, you can subscribe to the [What's New in Cisco Product Documentation RSS feed](#). The RSS feeds are a free service.

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