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## Preface

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This document describes the configuration details for Cisco NX-OS unicast routing.

## 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
<a href="#">Chapter 1, “Overview”</a>	Presents an overview of unicast routing and brief descriptions of each feature.
<a href="#">Chapter 2, “Configuring IPv4”</a>	Describes how to configure and manage IPv4, including ARP and ICMP.
<a href="#">Chapter 3, “Configuring IPv6”</a>	Describes how to configure and manage IPv6, including Neighbor Discovery Protocol and ICMPv6.
<a href="#">Chapter 4, “Configuring DNS”</a>	Describes how to configure DHCP and DNS clients.
<a href="#">Chapter 5, “Configuring OSPFv2”</a>	Describes how to configure the OSPFv2 routing protocol for IPv4 networks.
<a href="#">Chapter 6, “Configuring OSPFv3”</a>	Describes how to configure the OSPFv3 routing protocol for IPv6 networks.
<a href="#">Chapter 7, “Configuring EIGRP”</a>	Describes how to configure the Cisco EIGRP routing protocol for IPv4 networks.
<a href="#">Chapter 8, “Configuring IS-IS”</a>	Describes how to configure the IS-IS routing protocol for IPv4 and IPv6 networks.
<a href="#">Chapter 9, “Configuring Basic BGP”</a>	Describes how to configure basic features for the BGP routing protocol for IPv4 and IPv6 networks.
<a href="#">Chapter 10, “Configuring Advanced BGP”</a>	Describes how to configure advanced features for the BGP routing protocol for IPv4 and IPv6 networks, including route redistribution and route aggregation.

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Title	Description
<a href="#">Chapter 11, “Configuring RIP”</a>	Describes how to configure the RIP and RIPng routing protocols for IPv4 and IPv6 networks.
<a href="#">Chapter 12, “Configuring Static Routing”</a>	Describes how to configure static routing for IPv4 and IPv6 networks.
<a href="#">Chapter 14, “Configuring Layer 3 Virtualization”</a>	Describes how to configure layer 3 virtualization.
<a href="#">Chapter 13, “Managing the Unicast RIB and FIB”</a>	Describes how to view and modify the unicast RIB and FIB.
<a href="#">Chapter 15, “Configuring Route Policy Manager”</a>	Describes how to configure the Route Policy Manager, including IP prefix lists and route-maps for filtering and redistribution.
<a href="#">Chapter 16, “Configuring Policy-Based Routing”</a>	Describes how to configure route maps for policy based routing.
<a href="#">Chapter 18, “Configuring HSRP”</a>	Describes how to configure the Hot Standby Routing Protocol.
<a href="#">Chapter 17, “Configuring GLBP”</a>	Describes how to configure GLBP.
<a href="#">Chapter 20, “Configuring Object Tracking”</a>	Describes how to configure object tracking.
<a href="#">Chapter 19, “Configuring VRRP”</a>	Describes how to configure the Virtual Router Redundancy Protocol.
<a href="#">Appendix A, “IETF RFCs supported by Cisco Nexus 7000 Series NX-OS Unicast Features, Release 4.x”</a>	Lists IETF RFCs supported by Cisco NX-OS.

## Document Conventions

Command descriptions use these conventions:

Convention	Description
<b>boldface font</b>	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:

<code>screen font</code>	Terminal sessions and information that the switch displays are in screen font.
<b><code>boldface screen font</code></b>	Information that you must enter is in boldface screen font.
<i><code>italic screen font</code></i>	Arguments for which you supply values are in italic screen font.

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< >	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

The following Cisco NX-OS documents are published on [Cisco.com](http://Cisco.com):

### Release Notes

*Cisco Nexus 7000 Series NX-OS Release Notes, Release 4.0*

### NX-OS Configuration Guides

*Cisco Nexus 7000 Series NX-OS Getting Started with Virtual Device Contexts, Release 4.0*

*Cisco Nexus 7000 Series NX-OS Fundamentals Configuration Guide, Release 4.0*

*Cisco Nexus 7000 Series NX-OS Interfaces Configuration Guide, Release 4.0*

*Cisco Nexus 7000 Series NX-OS Layer 2 Switching Configuration Guide, Release 4.0*

*Cisco Nexus 7000 Series NX-OS Quality of Service Configuration Guide, Release 4.0*

*Cisco Nexus 7000 Series NX-OS Unicast Routing Configuration Guide, Release 4.0*

*Cisco Nexus 7000 Series NX-OS Multicast Routing Configuration Guide, Release 4.0*

*Cisco Nexus 7000 Series NX-OS Security Configuration Guide, Release 4.0*

*Cisco Nexus 7000 Series NX-OS Virtual Device Context Configuration Guide, Release 4.0*

*Cisco Nexus 7000 Series NX-OS Software Upgrade Guide, Release 4.0*

*Cisco Nexus 7000 Series NX-OS Licensing Guide, Release 4.0*

*Cisco Nexus 7000 Series NX-OS High Availability and Redundancy Guide, Release 4.0*

*Cisco Nexus 7000 Series NX-OS System Management Configuration Guide, Release 4.0*

*Cisco Nexus 7000 Series NX-OS XML Management Interface User Guide, Release 4.0*

*Cisco Nexus 7000 Series NX-OS System Messages Reference*

*Cisco Nexus 7000 Series NX-OS MIB Quick Reference*

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## **NX-OS Command References**

*Cisco Nexus 7000 Series NX-OS Command Reference Master Index, Release 4.0*  
*Cisco Nexus 7000 Series NX-OS Fundamentals Command Reference, Release 4.0*  
*Cisco Nexus 7000 Series NX-OS Interfaces Command Reference, Release 4.0*  
*Cisco Nexus 7000 Series NX-OS Layer 2 Switching Command Reference, Release 4.0*  
*Cisco Nexus 7000 Series NX-OS Quality of Service Command Reference, Release 4.0*  
*Cisco Nexus 7000 Series NX-OS Unicast Routing Command Reference, Release 4.0*  
*Cisco Nexus 7000 Series NX-OS Multicast Routing Command Reference, Release 4.0*  
*Cisco Nexus 7000 Series NX-OS Security Command Reference, Release 4.0*  
*Cisco Nexus 7000 Series NX-OS Virtual Device Context Command Reference, Release 4.0*  
*Cisco Nexus 7000 Series NX-OS System Management Command Reference, Release 4.0*

## **Other Software Document**

*Cisco Nexus 7000 Series NX-OS Troubleshooting Guide, Release 4.0*

# **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>

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