



# Preface

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**Revised: March, 2009, OL-13830-02**

The *Cisco XR 12404 Router Installation Guide* provides information related to installation and removal of Cisco XR 12404 Router Chassis.

The preface contains the following sections:

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## Changes to This Document

[Table 1](#) lists the technical changes made to this document since it was first printed.

**Table 1**      **Changes to This Document**

Revision	Date	Change Summary
OL-13830-02	March 2009	Added Performance Route Processor-3 (PRP-3) related hardware details. Added Performance Route Processor-3 (PRP-3) hardware details. PRP-3 has been introduced in Cisco IOS XR Software Release 3.8.0. PRP-3 will be supported on Cisco IOS XR Software Release 3.8.0 and later releases.

## 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 a Really Simple Syndication (RSS) feed and set content to be delivered directly to your desktop using a reader application. The RSS feeds are a free service and Cisco currently supports RSS version 2.0.

## Audience

The audience for the *Cisco XR 12404 Router Installation Guide* user documentation are the people who will install and configure a Cisco XR 12404 Router. The user typically has a substantial background in installing and configuring router- and switch-based Internets but may or may not have experience with Cisco products and supported protocols.

The reader of this documentation should be familiar with electronic circuitry and wiring practices and have experience as an electronic or electromechanical technician.

# Purpose

This installation and configuration guide explains the hardware installation and basic configuration procedures for a Cisco XR 12404 Router. It contains procedures for installing the hardware, creating a basic configuration file, and starting up the router.

## Installation Guide Organization

The *Cisco XR 12404 Router Installation Guide* has the following chapters and appendix; the paper version of this document may contain an index.

- [Chapter 1, “Cisco XR 12404 Router Overview”](#)—Contains a high-level system overview and physical description of the major components of a Cisco XR 12404 Router including the power and cooling systems, the power requirements, the Route Processor (RP), PRP-3, and the consolidated switch fabric (CSF) card which contains the clock and scheduler, alarm and switch fabric functions.
- [Chapter 2, “Preparing for Installation”](#)—Contains safety, site requirements for power, environmental safety, cabling, rack-mounting, electrostatic discharge (ESD), the site log, and site preparation checklist.
- [Chapter 3, “Installing the Router”](#)—Contains procedures for verifying the Cisco XR 12404 Router installation, grounding, cable connection, AC-and DC-power source and powering-up the router.
- [Chapter 4, “Troubleshooting the Installation”](#)—Contains procedures for identifying and solving problems that may occur during installation.
- [Chapter 5, “Maintaining the Router”](#)—Contains safety at the field replaceable unit (FRU) level, removal and replacement procedures for field-replaceable units, FRU assemblies, and associated procedures to troubleshoot and verify each FRU.
- [Appendix A, “Technical Specifications”](#)—Contains Cisco XR 12404 Router specifications.
- [Index](#)—Contains a keyword and subject index of pertinent terms and information.

# Document Conventions

This publication uses the following conventions:

- The key combination **Ctrl-z** means hold down the **Control** key while you press the **z** key.

Command descriptions use these conventions:

- Examples that contain system prompts denote interactive sessions, indicating the commands that you should enter at the prompt. The system prompt indicates the current level of the EXEC command interpreter.

For example, the prompt `router>` indicates that you should be at the *user* level, and the prompt `router#` indicates that you should be at the *privileged* level. Access to the privileged level usually requires a password. Refer to the related software configuration and reference documentation for additional information.

- Commands and keywords are in **bold** font.
- Arguments for which you supply values are in *italic* font.
- Elements in square brackets ([ ]) are optional.
- Alternative but required keywords are grouped in braces ({ }) and separated by vertical bars (|).

Examples use these conventions:

- Terminal sessions and sample console screen displays are in *screen* font.
- Information you enter is in **boldface screen** font.
- Nonprinting characters, such as passwords, are in angle brackets (< >).
- Default responses to system prompts are in square brackets ([ ]).
- Exclamation points (!) at the beginning of a line indicate a comment line.



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**Caution**

Means *reader be careful*. You are capable of doing something that might result in equipment damage or loss of data.

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**Note**

Means *reader take note*. Notes contain helpful suggestions or references to materials not contained in this manual.

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**Timesaver**

Means *the described action saves time*. You can save time by performing the action described in the paragraph.

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**Warning**

**This warning symbol means *danger*. You are in a situation that could cause bodily injury. Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents. To see translations of the warnings that appear in this publication, refer to the *Regulatory Compliance and Safety Information* document that accompanied this device.**

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