About This Manual

This chapter discusses the objectives, audience, organization, and conventions of the *Cisco 2500 Series Hardware Installation and Maintenance* publication. This document is available on UniverCD or a printed document can be ordered separately.

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Document Objectives

This publication will step you through initial site preparation, installation, and troubleshooting. It also covers selected maintenance procedures.

Audience

This publication is designed for the router installer, who should be familiar with electronic circuitry and wiring practices and have experience as an electronic or electromechanical technician.

For a tutorial on initial software configuration, refer to the *Router Products Getting Started Guide*. For more advanced configuration applications, refer to the router products configuration publication.

Note To order UniverCD, Cisco's library of product information in CD-ROM format, or printed documentation, refer to *Ordering Cisco Documentation*, which is in your warranty package.

Document Organization

This publication is organized as follows:

- Chapter 1, "Cisco 2500 Series Overview," contains an overview of the router, hub, and access server feature set and physical specifications.
- Chapter 2, "Preparing for Installation," includes safety recommendations, site requirements, an installation checklist, console and auxiliary port cable connection considerations, network connection considerations, and instructions for inspecting the new system.
- Chapter 3, "Installing the Router," provides a list of tools and parts required, instructions for rack and wall-mounting, procedures for making external connections, and information about what to do after installing the hardware.

- Chapter 4, “Troubleshooting the Hardware Configuration,” briefly discusses troubleshooting, problem solving, and reading LED indicators.
- Chapter 5, “Maintaining and Upgrading the Router,” includes procedures for opening the chassis, upgrading system code SIMMs, upgrading feature sets with Flash cards (PCMCIA cards), replacing DRAM SIMMs, closing the chassis, and recovering a lost password.
- Appendix A, “Cabling Specifications,” provides cable illustrations and pinouts for the console and auxiliary ports, Ethernet (AUI) cables, Token Ring port, Ethernet and Token Ring RJ-45 cables, serial cables, asynchronous serial cables, and the BRI cable.
- Appendix B, “Virtual Configuration Register,” discusses the settings for and functions of the virtual configuration register.
- Appendix C, “Bootstrap Program,” contains procedures for testing system memory and the central processor unit (CPU) by using the bootstrap diagnostic tests and command options.

Document Conventions

This section explains the conventions used in this publication to convey instructions and information.

The following conventions are used for commands:

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

The following conventions are used for examples:

- Terminal sessions are in `screen` font.
- Information you enter is in **`boldface screen`** font.
- Nonprinting characters are shown in angle brackets (< >).
- Information the system displays is in `screen` font, with default responses in square brackets ([ ]).

The following conventions are used to highlight important material:

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

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

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

Warning 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 familiar with standard practices for preventing accidents.