



About This Manual

This section discusses the objectives, intended audience, and organization of this hardware installation and maintenance publication, and defines the conventions used to convey instructions and noteworthy information.

Document Objectives

This publication contains specific procedures for preparing your site and network equipment for the initial installation of the router hardware, and procedures you may need in the future to modify or upgrade your system. It will guide you through the initial site preparation, hardware installation, and startup of your new router. After you install the hardware, you will use the appropriate companion publications to configure your system.

The chapter “Maintaining the Router” provides maintenance procedures and guidelines for the general care and upkeep of your new router. All additions or upgrades to the router hardware, software, or microcode (firmware) that you order from the factory are accompanied by configuration notes that provide product-specific installation instructions and up-to-date product information.

Audience

Setting up and maintaining a network requires the knowledge and expertise of people with a variety of skills. In many cases, the people responsible for installing and maintaining hardware and wiring are not the ones who configure the software and administer the network. This publication provides information specific to installing and maintaining the router hardware. To use this publication, you should be familiar with electronic circuitry and wiring practices, and preferably have experience as an electronic or electromechanical technician. Although this document provides brief descriptions and examples of a few software configuration and display commands, it is not a reference for software. For comprehensive descriptions and examples of software configuration commands and the procedures for implementing them, refer to the related software configuration and reference documentation.

Document Organization

The organization of this publication follows a recommended linear installation sequence: starting with Chapter 1, “Product Overview,” and continuing through Chapter 3, “Installing the Router.”

Refer to Chapter 4, “Troubleshooting the Installation,” only if you experience problems with the initial hardware installation or startup.

Use the information in Chapter 5, “Maintaining the Router,” whenever you add, replace, upgrade, or rearrange system components.

This publication also includes some information that you may not need at initial installation; however, it can be useful when you upgrade or add components to the system. The appendixes include additional reference information.

Following is a brief description of each chapter:

- Chapter 1, “Product Overview,” describes the physical properties and specifications of the router, components, and interfaces. It also provides brief functional descriptions of the primary system features.
- Chapter 2, “Preparing for Installation,” is a preparatory section that describes site requirements, safety considerations, tools required, optional and required network connection equipment, unpacking checklists, and procedures you should perform *before* the actual installation. This chapter contains descriptions and illustrations of all types of network interface cables, connectors, and interface devices that you may need for your network connections, so you can use this chapter as a reference.
- Chapter 3, “Installing the Router,” provides instructions for rack-mounting the router, connecting the external power and network interface cables, and starting the system. After your system successfully initializes, you will proceed to the related software documentation to configure the interfaces. If the system fails to initialize successfully, you will proceed to Chapter 4 to troubleshoot the problem.
- Chapter 4, “Troubleshooting the Installation,” provides troubleshooting guidelines for the initial hardware installation and suggests steps to help you quickly isolate the source and resolve the problem.
- Chapter 5, “Maintaining the Router,” provides procedures for replacing, adding, upgrading, modifying, and rearranging system components and field-replaceable units (FRUs).
- Appendix A, “Cabling Specifications,” lists pinouts and signals for the network interface cables you will need to connect the router interfaces to external networks.
- Appendix B, “Reading LED Indicators,” describes the various states and indications of the LEDs on the power supply and processor modules. This information is of limited use at initial system startup because, although the LEDs for many interface types go on at the initial system startup, they do not indicate an accurate status until the interface is configured. This information is for your reference, to be used after the interfaces are configured and brought on line.
- Appendix C, “Industry Standard Wiring Plans,” lists the telephone industry color-code scheme for 25-pair wires including the pin numbers.

Document Conventions

This publication uses the following conventions:

- The symbol ^ represents the key labeled *Control*.
For example, the key combination ^z means hold down the *Control* key while you press the z key.
- Cross-references to additional or related information within this publication specify the title (in quotes) of the section that contains the information and the chapter in which that section appears.
For example, refer to the section “Document Conventions” in this chapter.

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 7010> indicates that you should be at the *user* level, and the prompt 7010# 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 publications for additional information.
- Commands and keywords are in **boldface** 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.



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

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



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



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 standard practices for preventing accidents. Chapter 2 provides general safety considerations and specific guidelines for safely installing the Cisco 7513 router.

Obtaining Technical Assistance

For technical information and assistance, use the following sources:

- Technical Assistance Center (TAC) at 800 553-2447, 408 526-7209, or send an e-mail message to `tac@cisco.com`.
- Customer Response Center (CRC) at 800 553-6387, 408 526-7208, or send an e-mail message to `cs-rep@cisco.com`.
- Cisco Information Online (CIO). If you have a CIO account, you can access the list remotely.

You can access CIO in the following ways:

- WWW: `http://www.cisco.com`
- Telnet: `cio.cisco.com`
- Modem: From North America, 408 526-8070; from Europe, 33 1 64 46 40 82. Use the following terminal settings: VT100 emulation; data bits: 8; parity: none; stop bits: 1; and baud rates up to 14.4 kbps.

For a copy of CIO's Frequently Asked Questions (FAQs), contact `cio-help@cisco.com`. For additional information, contact `cio-team@cisco.com`.