



About This Guide

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

Cisco documentation and additional literature are available in a CD-ROM package, which ships with your product. The Documentation CD-ROM, a member of the Cisco Connection Family, is updated monthly. Therefore, it might be more up to date than printed documentation. To order additional copies of the Documentation CD-ROM, contact your local sales representative or call customer service. The CD-ROM package is available as a single package or as an annual subscription. You can also access Cisco documentation on the World Wide Web at <http://www.cisco.com>, <http://www-china.cisco.com>, or <http://www-europe.cisco.com>.

Document Objectives

This publication contains specific procedures for the initial hardware installation, and procedures for performing the basic system configuration of your Cisco 7500 series router. The Cisco 7500 series includes four routers: the Cisco 7505, Cisco 7507, Cisco 7513, and Cisco 7576.

The Cisco 7505 and Cisco 7507 routers arrive with all processor modules installed; however, the Cisco 7513 and Cisco 7576 routers arrive with processor modules individually packaged; you need to install these in your system. After you install the hardware and perform a basic system configuration, you will then use the appropriate software configuration publications and companion publications to more completely configure your system and its interfaces.

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 hardware and wiring are not the ones who configure the software and administer the network; therefore, this publication provides information specific to installing the router hardware and performing a basic system configuration. To use this publication, you should be familiar with electronic circuitry and wiring practices, and basic network configuration, and preferably have experience as an electronic or electromechanical technician.

Document Organization

The organization of this publication follows a recommended linear installation sequence starting with the chapter “Cisco 7500 Series Product Overview,” and continuing through the chapter “Performing a Basic Configuration of your System.”

Following is a brief description of each chapter:

- Chapter 1, “Cisco 7500 Series Product Overview,” describes the physical properties of each of the three Cisco 7500 series routers. The remaining sections of this chapter describe router components, which are considered to be standard equipment and ship with each router, as appropriate.
- Chapter 2, “Preparing for Installation,” describes safety considerations, tools required, an overview of the installation, and procedures you should perform *before* the actual installation of your Cisco 7500 series router.
- Chapter 3, “Installing a Cisco 7500 Series Router,” provides information for installing the router hardware. The chapter includes a section describing generic installation requirements; it also includes additional sections for each Cisco 7500 series router.

Note Use the companion *Interface Processor Installation and Configuration Guide* in conjunction with the procedures described in Chapter 4, “Performing a Basic Configuration of the System,” to configure the interface processors in your router.

For comprehensive descriptions and examples of software configuration commands and the procedures for implementing them, refer to the related software configuration and reference documentation listed in the section “If You Need More Configuration Information,” in the chapter “Performing a Basic Configuration of your System,” and to the Cisco IOS software release note specific to the release of Cisco IOS software you are running on your system.

- Chapter 4, “Performing a Basic Configuration of the System,” provides simple procedures for completing a basic system configuration of your Cisco 7500 series router, and for checking and saving this configuration to system memory.
- Chapter 5, “Maintaining the Cisco 7505,” describes the procedures required to perform routine maintenance and to remove and replace field replaceable units (FRUs) in your Cisco 7505 router.
- Chapter 6, “Maintaining the Cisco 7507,” describes the procedures required to perform routine maintenance and to remove and replace field replaceable units (FRUs) in your Cisco 7507 router.
- Chapter 7, “Maintaining the Cisco 7513 and Cisco 7576,” describes the procedures required to perform routine maintenance and to remove and replace field replaceable units (FRUs) in your Cisco 7513 or Cisco 7576 router.
- Appendix A, “Troubleshooting the Installation,” describes basic troubleshooting guidelines, should you have difficulty with your Cisco 7500 series router installation.
- Appendix B, “Upgrading or Replacing DRAM on Cisco 7500 Series Route Switch Processors,” describes the procedures required to upgrade the dynamic random-access memory (DRAM) devices on the RSP(s) in your Cisco 7500 series routers.

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 of the section that contains the information. For example, “Refer to the section ‘Document Conventions.’” For publications on the Documentation CD-ROM, these cross-references represent direct online links.

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 **boldface** font.
- Arguments for which you supply values are in *italic* font.
- Optional elements are in square brackets ([]).
- 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 publication.



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

Safety Warnings

Safety warnings appear throughout this publication in procedures that, if performed incorrectly, may harm you. A warning symbol precedes each warning statement.



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 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.

Note The Regulatory Compliance and Safety Information document is also available on the Documentation CD-ROM.

Waarschuwing Dit waarschuwingssymbool betekent gevaar. U verkeert in een situatie die lichamelijk letsel kan veroorzaken. Voordat u aan enige apparatuur gaat werken, dient u zich bewust te zijn van de bij elektrische schakelingen betrokken risico's en dient u op de hoogte te zijn van standaard maatregelen om ongelukken te voorkomen. Voor vertalingen van de waarschuwingen die in deze publicatie verschijnen, kunt u het document *Regulatory Compliance and Safety Information* (Informatie over naleving van veiligheids- en andere voorschriften) raadplegen dat bij dit toestel is ingesloten.

Safety Warnings

Varoitus Tämä varoitusmerkki merkitsee vaaraa. Olet tilanteessa, joka voi johtaa ruumiinvammaan. Ennen kuin työskentelet minkään laitteiston parissa, ota selvää sähkökytkentöihin liittyvistä vaaroista ja tavanomaisista onnettomuuksien ehkäisykeinoista. Tässä julkaisussa esiintyvien varoitusten käännökset löydät laitteen mukana olevasta *Regulatory Compliance and Safety Information* -kirjasesta (määräysten noudattaminen ja tietoa turvallisuudesta).

Attention Ce symbole d'avertissement indique un danger. Vous vous trouvez dans une situation pouvant causer des blessures ou des dommages corporels. Avant de travailler sur un équipement, soyez conscient des dangers posés par les circuits électriques et familiarisez-vous avec les procédures couramment utilisées pour éviter les accidents. Pour prendre connaissance des traductions d'avertissements figurant dans cette publication, consultez le document *Regulatory Compliance and Safety Information* (Conformité aux règlements et consignes de sécurité) qui accompagne cet appareil.

Warnung Dieses Warnsymbol bedeutet Gefahr. Sie befinden sich in einer Situation, die zu einer Körperverletzung führen könnte. Bevor Sie mit der Arbeit an irgendeinem Gerät beginnen, seien Sie sich der mit elektrischen Stromkreisen verbundenen Gefahren und der Standardpraktiken zur Vermeidung von Unfällen bewusst. Übersetzungen der in dieser Veröffentlichung enthaltenen Warnhinweise finden Sie im Dokument *Regulatory Compliance and Safety Information* (Informationen zu behördlichen Vorschriften und Sicherheit), das zusammen mit diesem Gerät geliefert wurde.

Avvertenza Questo simbolo di avvertenza indica un pericolo. La situazione potrebbe causare infortuni alle persone. Prima di lavorare su qualsiasi apparecchiatura, occorre conoscere i pericoli relativi ai circuiti elettrici ed essere al corrente delle pratiche standard per la prevenzione di incidenti. La traduzione delle avvertenze riportate in questa pubblicazione si trova nel documento *Regulatory Compliance and Safety Information* (Conformità alle norme e informazioni sulla sicurezza) che accompagna questo dispositivo.

Advarsel Dette varselsymbolet betyr fare. Du befinner deg i en situasjon som kan føre til personskade. Før du utfører arbeid på utstyr, må du være oppmerksom på de faremomentene som elektriske kretser innebærer, samt gjøre deg kjent med vanlig praksis når det gjelder å unngå ulykker. Hvis du vil se oversettelser av de advarslene som finnes i denne publikasjonen, kan du se i dokumentet *Regulatory Compliance and Safety Information* (Overholdelse av forskrifter og sikkerhetsinformasjon) som ble levert med denne enheten.

Aviso Este símbolo de aviso indica perigo. Encontra-se numa situação que lhe poderá causar danos físicos. Antes de começar a trabalhar com qualquer equipamento, familiarize-se com os perigos relacionados com circuitos eléctricos, e com quaisquer práticas comuns que possam prevenir possíveis acidentes. Para ver as traduções dos avisos que constam desta publicação, consulte o documento *Regulatory Compliance and Safety Information* (Informação de Segurança e Disposições Reguladoras) que acompanha este dispositivo.

¡Advertencia! Este símbolo de aviso significa peligro. Existe riesgo para su integridad física. Antes de manipular cualquier equipo, considerar los riesgos que entraña la corriente eléctrica y familiarizarse con los procedimientos estándar de prevención de accidentes. Para ver una traducción de las advertencias que aparecen en esta publicación, consultar el documento titulado *Regulatory Compliance and Safety Information* (Información sobre seguridad y conformidad con las disposiciones reglamentarias) que se acompaña con este dispositivo.

Varning! Denna varningssymbol signalerar fara. Du befinner dig i en situation som kan leda till personskada. Innan du utför arbete på någon utrustning måste du vara medveten om farorna med elkretsar och känna till vanligt förfarande för att förebygga skador. Se förklaringar av de varningar som förekommer i denna publikation i dokumentet *Regulatory Compliance and Safety Information* (Efterrättelse av föreskrifter och säkerhetsinformation), vilket medföljer denna anordning.

Cisco Connection Online

Cisco Connection Online (CCO) is Cisco Systems' primary, real-time support channel. Maintenance customers and partners can self-register on CCO to obtain additional information and services.

Available 24 hours a day, 7 days a week, CCO provides a wealth of standard and value-added services to Cisco's customers and business partners. CCO services include product information, product documentation, software updates, release notes, technical tips, the Bug Navigator, configuration notes, brochures, descriptions of service offerings, and download access to public and authorized files.

CCO serves a wide variety of users through two interfaces that are updated and enhanced simultaneously: a character-based version and a multimedia version that resides on the World Wide Web (WWW). The character-based CCO supports Zmodem, Kermit, Xmodem, FTP, and Internet e-mail, and it is excellent for quick access to information over lower bandwidths. The WWW version of CCO provides richly formatted documents with photographs, figures, graphics, and video, as well as hyperlinks to related information.

You can access CCO in the following ways:

WWW: <http://www.cisco.com>

WWW: <http://www-europe.cisco.com>

WWW: <http://www-china.cisco.com>

Telnet: [cco.cisco.com](telnet://cco.cisco.com)

Modem: From North America, 408 526-8070; from Europe, 33 1 64 46 40 82. Use the following terminal settings: VT100 emulation; databits: 8; parity: none; stop bits: 1; and connection rates up to 28.8 kbps.

For a copy of CCO's Frequently Asked Questions (FAQ), contact cco-help@cisco.com. For additional information, contact cco-team@cisco.com.

Note If you are a network administrator and need personal technical assistance with a Cisco product that is under warranty or covered by a maintenance contract, contact Cisco's Technical Assistance Center (TAC) at 800 553-2447, 408 526-7209, or tac@cisco.com. To obtain general information about Cisco Systems, Cisco products, or upgrades, contact 800 553-6387, 408 526-7208, or cs-rep@cisco.com.
