



# About the Cisco IOS Software Documentation

---

This section discusses the objectives, audience, organization, and conventions of the Cisco IOS software documentation. It also discusses how to obtain documentation on Cisco Connection Online and the Documentation CD-ROM.

## Documentation Objectives

This Cisco IOS software documentation describes the tasks and commands necessary to configure and maintain your access server or router.

## Audience

The Cisco IOS software documentation is intended primarily for users who configure and maintain access servers and routers, but are not necessarily familiar with tasks, the relationship between tasks, or the commands necessary to perform particular tasks.

## Documentation Organization

The Cisco IOS software documentation is divided into nine modules and two master indexes.

## Documentation Modules

Each module consists of two books: a configuration guide and a corresponding command reference. Chapters in a configuration guide describe protocols, configuration tasks, and Cisco IOS software functionality and contain comprehensive configuration examples. Chapters in a command reference provide complete command syntax information. Each configuration guide can be used in conjunction with its corresponding command reference.

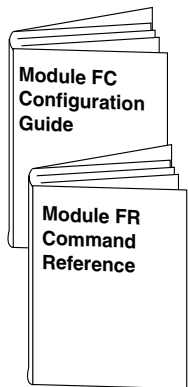
## Master Indexes

Two master indexes provide indexing information for the Cisco IOS software documentation set: an index for the configuration guides and an index for the command references. In addition, individual books contain a book-specific index.

## Documentation Set

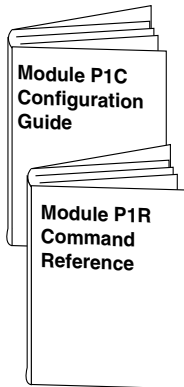
The Cisco IOS software documentation set is shown in Figure 1.

Figure 1 Cisco IOS Software Documentation Modules



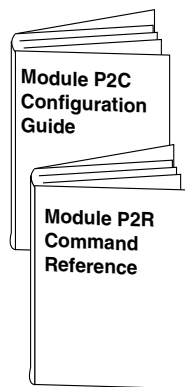
**Module FC/FR:**  
**Configuration Fundamentals**

- Access Server and Router Product Overview
- Cisco IOS Software Configuration Basics
- Images and Configuration Files
- Interface Configuration
- System Management



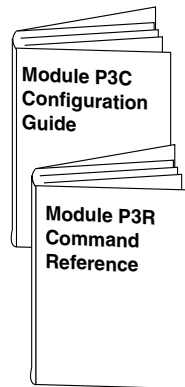
**Module P1C/P1R:**  
**Network Protocols, Part 1**

- IP Addressing
- IP Services
- IP Routing Protocols



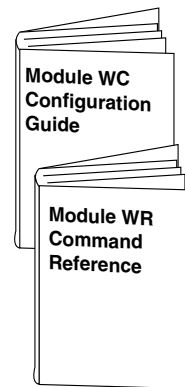
**Module P2C/P2R:**  
**Network Protocols, Part 2**

- AppleTalk
- Novell IPX



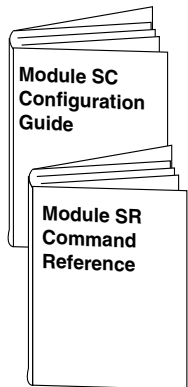
**Module P3C/P3R:**  
**Network Protocols, Part 3**

- Apollo Domain
- Banyan VINES
- DECnet
- ISO CLNS
- XNS



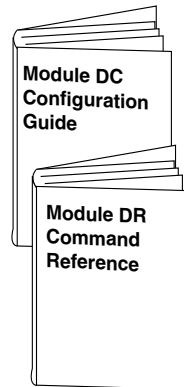
**Module WC/WR:**  
**Wide-Area Networking**

- ATM
- Frame Relay
- SMDS
- X.25 and LAPB



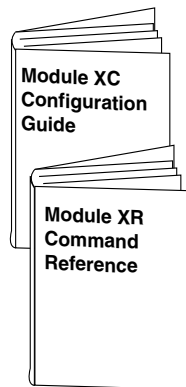
**Module SC/SR:**  
**Security**

- Terminal Access Security
- Network Access Security
- Accounting and Billing
- Filtering Traffic
- Preventing Fraudulent Route Updates
- Network Data Encryption



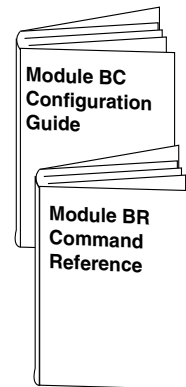
**Module DC/DR:**  
**Dial Solutions**

- Dial Business Solutions and Examples
- Dial-In Port Setup
- DDR and Dial Backup
- Remote Node and Terminal Service
- Cost-Control and Large-Scale Dial Solutions
- VPDN



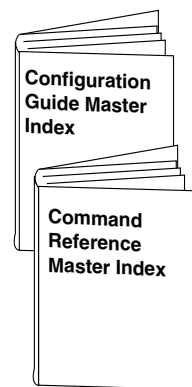
**Module XC/XR:**  
**Cisco IOS Switching Services**

- Switching Paths for IP Networks
  - Fast Switching
  - Autonomous Switching
  - NetFlow Switching
  - Optimum Switching
- Virtual LAN (VLAN) Switching and Routing
  - Inter-Switch Link Protocol Encapsulation
  - IEEE 802.10 Encapsulation
  - LAN Emulation



**Module BC/BR:**  
**Bridging and IBM Networking**

- Transparent Bridging
- Source-Route Bridging
- Remote Source-Route Bridging
- DLSw+
- STUN and BSTUN
- LLC2 and SDLC
- IBM Network Media Translation
- DSPU and SNA Service Point
- SNA Frame Relay Access Support
- APPN
- NCIA Client/Server Topologies
- IBM Channel Attach



**Configuration Guide Master Index**

**Command Reference Master Index**

S4783

## Document Conventions

The Cisco IOS documentation set uses the following conventions:

- The caret character (^) represents the Control key.

For example, the key combinations ^D and Ctrl-D are equivalent: Both mean hold down the Control key while you press the D key. Keys are indicated in capital letters, but are not case sensitive.

- A string is defined as a nonquoted set of characters.

For example, when setting an SNMP community string to *public*, do not use quotation marks around the string; otherwise, the string will include the quotation marks.

Command descriptions use these conventions:

- **Boldface** indicates commands and keywords that are entered literally as shown.
- *Italics* indicate arguments for which you supply values; in contexts that do not allow italics, arguments are enclosed in angle brackets (<>).
- Square brackets ([ ]) indicate optional elements.
- Braces ({ }) group required choices, and vertical bars (|) separate alternative elements.
- Braces and vertical bars within square brackets ({{ | }}) indicate a required choice within an optional element.

Examples use these conventions:

- Examples that contain system prompts denote interactive sessions, indicating that the user enters commands at the prompt. The system prompt indicates the current command mode. For example, the prompt `Router(config)#` indicates global configuration mode.
- Terminal sessions and information the system 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. They are also displayed by the Cisco IOS software for certain processes.



**Caution** Means *reader be careful*. In this situation, you might do something that could 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.

---

Within the Cisco IOS software documentation, the term *router* is used to refer to both access servers and routers. When a feature is supported on the access server only, the term *access server* is used. When a feature is supported on one or more specific router platforms (such as the Cisco 4500), but not on other platforms (such as the Cisco 2500), the text specifies the supported platforms.

Within examples, routers and access servers are alternately shown. These products are used only for example purposes; that is, an example that shows one product does not indicate that the other product is not supported.

## 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](mailto:cco-help@cisco.com). For additional information, contact [cco-team@cisco.com](mailto: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](mailto: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](mailto:cs-rep@cisco.com).

---

## Documentation CD-ROM

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>.

If you are reading Cisco product documentation on the World Wide Web, you can submit comments electronically. Click **Feedback** in the toolbar, select **Documentation**, and click **Enter the feedback form**. After you complete the form, click **Submit** to send it to Cisco. We appreciate your comments.

