



About This Guide

This preface describes the objectives, audience, organization, and conventions of the *Cisco 1700 Router Software Configuration Guide*.

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Objectives

This software configuration guide explains how to configure the Cisco 1700 router and any installed WAN interface cards for the most common network scenarios. It does not cover every feature, but does describe, in detail, those tasks most commonly required to configure the router. This guide also references detailed features described in the Cisco IOS configuration guides and command references. Refer to these other books for additional information.

Audience

This guide is intended primarily for the following audiences:

- Customers who know one networking protocol (such as IP) and one LAN protocol (such as Ethernet), but have no additional networking background or experience
- Customers who support dial-in users, but who have little experience with router-based networks
- System administrators who are familiar with the fundamentals of router-based internetworking and who are responsible for installing and configuring internetworking equipment, but who might not be familiar with the specifics of Cisco products or the routing protocols supported by Cisco products

Organization

This document contains the following chapters and appendix:

- Cisco IOS Basic Skills—Describes what you need to know about the Cisco IOS software (the software that runs the router) before you begin to configure the router
- Configuring ISDN—Describes how to configure the router for ISDN, how to configure dialer profiles and access lists, and how to configure ISDN as a leased line
- Configuring a Leased Line—Describes how to configure a point-to-point leased line connection
- Configuring Frame Relay—Describes how to configure the router for Frame Relay, how to configure ISDN as a backup connection for Frame Relay, and how to configure floating static routes
- Configuring Asynchronous Connections—Describes how to configure the router for asynchronous connections
- Configuring X.25—Describes how to configure X.25 and X.25 encapsulation over ISDN B and ISDN D channels
- Networking Concepts—Describes various networking technologies supported by the Cisco 1700 router.
- ROM Monitor—Describes the functions and commands of the router ROM monitor (also called the bootstrap program), the firmware that runs when the router is powered up or reset.

Conventions

This document 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 capitals, but are not case sensitive.

Command descriptions use these conventions:

- Commands and keywords in **boldface** font.
- Variables for which you supply values are in *italic* font.

Examples use these conventions:

- Examples that contain system prompts denote interactive sessions, indicating that you enter commands at the prompt. The system prompt indicates the current command mode. For example, the following prompt indicates global configuration mode:

```
Router(config)#
```

- 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 (<>).

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



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



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

