



# About This Guide

---

This section discusses the audience, organization, and conventions of this installation and configuration guide.

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 current 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 and select **Documentation**. After you complete the form, click **Submit** to send it to Cisco. We appreciate your comments.

## Audience

This publication is designed for the person installing Cisco 1600 series routers who should be familiar with electronic circuitry and wiring practices and have experience as an electronic or electromechanical technician.

Use this guide together with the quick-reference installation guide and with the *Cisco 1600 Series Software Configuration Guide* that came with your router.

## Installation Guide Overview

This guide contains the following chapters and appendices:

- **About This Guide**—Provides an overview of and describes conventions of this document.
- **Overview of the Router**—Provides an overview of the router models, including connector descriptions, types of networks supported by each model, and product features.
- **Installing the Router**—Describes how to make LAN and WAN network connections.
- **Optional Installations**—Describes how to perform some installations that not all users may require, including wall-mounting the router, installing a WAN interface card, installing a Flash PC card, and connecting an ISDN telephone to a Cisco 1604.
- **Troubleshooting**—Describes how to isolate problems you might encounter with the router or to rule out the router as the source of the problem.
- **Configuring the ISDN Line**—Describes how to order and configure Integrated Service Digital Network (ISDN) Basic Rate Interface (BRI) for Cisco 1600 series routers.
- **Hardware Specifications and Cable Pinouts**—Contains router hardware specifications and pinouts for cables used with Cisco 1600 series routers.

## Installation Guide Conventions

This guide uses the following conventions:

- **Boldface font** is used for commands and keywords.
- *Italic* is used for command input that is supplied by you.
- `screen font` is used for examples of information that is displayed on the screen.
- **Boldface screen font** is used for examples of information that you enter.
- Square brackets contain keywords or arguments that are optional or default responses to system prompts:

[ x ]

- Braces contain a choice of keywords (represented by x below) that are separated by vertical bars:

{ x | x | x }

- Angled brackets contain characters that are not echoed on the screen, such as passwords:

<password>

- The key labeled Control is represented by ^ or **Ctrl-D**. For example, when you read ^D or *Ctrl-D*, you should hold down the Control key while you press the D key.

---

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

---



**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, you must be aware of the hazards involved with electrical circuitry and familiar with standard practices for preventing accidents.

To see translations of the warnings that appear in this document, refer to the regulatory compliance and safety information document that came with your router.

**Waarschuwing** Dit waarschuwingssymbool betekent gevaar. U verkeert in een situatie die lichamelijke letsels 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.

**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.

## Installation Guide Conventions

---

**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.

**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.

**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.

**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.

**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.

**¡Advertencia!** Este símbolo de aviso significa peligro. Existe riesgo para su integridad física. Antes de manipular cualquier equipo, considere los riesgos que entraña la corriente eléctrica y familiarizarse con los procedimientos estándar de prevención de accidentes.

**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.