



About This Guide

This section discusses the objectives, intended audience, and organization of the *Catalyst 5000 Series User Guide*, and defines the conventions used to convey instructions and information.

Cisco documentation and additional literature are available on a CD called Cisco Connection Documentation, Enterprise Series. The CD is updated and shipped monthly, so it might be more up to date than printed documentation. To order the Cisco Connection Documentation, Enterprise Series CD, contact your local sales representative or call Customer Service. The CD is available both as a single CD and as an annual subscription. You can also access Cisco technical documentation on the World Wide Web URL <http://www.cisco.com>.

Note The Cisco Connection Documentation, Enterprise Series CD was previously called UniverCD.

Document Objectives

This document describes specific procedures for preparing your site and network equipment for the initial installation of the Catalyst 5000 series switch hardware and software for the startup of your new switch. It also describes procedures to modify or upgrade your system. It guides you through the initial site preparation, hardware installation, and startup of your new switch. Maintenance procedures and guidelines for the general care and upkeep of your new switch are also included. All hardware, firmware, and software additions or upgrades to the switch that you order from the factory are accompanied by configuration notes or release 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 people who configure the software and administer the network. This publication provides information specific to initial installation and configuration of the switch hardware and software. To use this publication, you should be familiar with electronic circuitry and wiring practices, and preferably have experience as an electronic or electromechanical technician. This document provides brief descriptions and examples of a few software configuration and display commands. For comprehensive descriptions and examples of software configuration commands and the procedures for implementing them, refer to the *Catalyst 5000 Series Configuration Guide and Command Reference* publication.

Document Organization

This publication contains the following information:

- Chapter 1, “Defining the Catalyst 5000 Series Switch,” describes the physical properties of the switch, components, and interfaces. It also provides brief functional descriptions of the primary system features.
- Chapter 2, “Installation Overview,” describes safety recommendations, site requirements, tools required, optional and required network connection equipment, unpacking checklists, and procedures you should perform *before* actual installation. This chapter also describes and illustrates all types of network interface cables, connectors, and interface devices you may need for your network connections.
- Chapter 3, “Rack-Mounting Instructions,” provides instructions for rack-mounting the switch.
- Chapter 4, “Cabling Instructions,” describes the procedures to make all external cable connections to the Catalyst 5000 series switch at your site and apply power to the system.
- Chapter 5, “Configuring the Software,” discusses the initial configuration of the Catalyst 5000 series switch and describes how you configure such functions as IP addressing and SNMP management.

- Chapter 6, “Configuring Ethernet and Fast Ethernet Software,” discusses the procedures used to configure the supervisor engine module, Ethernet switching modules, and Fast Ethernet switching module using the command line interface.
- Chapter 8, “CDDI and FDDI Module Software Configuration,” discusses the procedures used to configure the FDDI and CDDI modules using the command line interface.
- Chapter 7, “ATM LAN Emulation Module Software Configuration,” discusses the procedures used to configure the ATM LAN Emulation switching modules using the command line interface.
- Chapter 9, “Confirming the Installation,” describes procedures used to confirm if the hardware and software installation and configuration procedures were successful.
- Chapter 10, “Troubleshooting the Installation,” provides troubleshooting guidelines for the initial hardware installation and suggests steps to help you quickly isolate the problem and resolve it.
- Chapter 11, “Maintaining the Catalyst 5000 Series Switch,” describes procedures for replacing, adding, upgrading, modifying, and rearranging system components and field-replaceable units (FRUs).
- Appendix A, “System Specifications,” describes the Catalyst 5000 series switch system specifications.
- Appendix B, “Configuration Worksheets,” includes instructions, examples, and blank worksheets used for the initial installation and subsequent maintenance of the Catalyst 5000 series switch.
- Appendix C, “Quick Installation Worksheet,” describes installation procedures you should use for installing Catalyst 5000 series switches after your first installation.
- Appendix D, “Cabling Specifications,” lists pin signals for the network interface cables you will need to connect the switch interfaces to external networks.
- Appendix E, “Standard Wiring Plans,” lists the telephone industry color-code scheme for 25-pair wires including the pin numbers.
- Appendix F, “Translated Safety Warnings,” repeats in multiple languages the warnings in this guide.

Document Conventions

This publication uses the conventions described below.

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 `Console>` indicates that you should be at the *user* level, and the prompt `Console> (enable)` 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*. 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.



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



Warning This warning symbol 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.

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.

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.

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.

Document Conventions

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, considerar 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.