



About This Guide

This manual is for the technician installing and maintaining a Catalyst 2820 or Catalyst 1900. It is assumed the individual is familiar with the concepts and terminology of 10BaseT and local area networks.

Cisco documentation and additional literature are available on a CD-ROM called Cisco Connection Documentation, Enterprise Series. The CD is updated and shipped monthly so it might be more current than printed documentation. To order the documentation 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.

Chapter Contents

The manual is organized as follows:

“Fast Install Guide” is an installation procedure for experienced users.

Chapter 1, “Introduction,” describes the key features of the Catalyst 2820 and Catalyst 1900.

Chapter 2, “Planning,” outlines the preinstallation and cabling guidelines and includes several sample configurations.

Chapter 3, “Concepts,” explains some of the switch’s features in greater detail, including virtual LANs (VLANs), the Spanning-Tree Protocol, multicast registration, and the available switching modes.

Chapter Contents

Chapter 4, “Installation,” contains the complete procedures for installing your switch on a rack, table, or shelf.

Chapter 5, “Out-of-Band Management,” is a menu-by-menu explanation of the management console. This application allows you to configure the Catalyst 2820 or the Catalyst 1900 and display statistics about the switch’s operation.

Chapter 6, “In-Band Management,” describes how to use BOOTP to assign an IP address and lists the MIB objects you can use to configure and manage the switch.

Chapter 7, “Troubleshooting,” describes some problems that may arise and their recommended solutions. It also includes procedures for accessing the switch’s diagnostic console. You can use these procedures for resolving problems with corrupted firmware or problematic configurations.

Appendix A, “Technical Specifications,” is a list of the physical, electrical, and environmental characteristics of the Catalyst 2820 and the Catalyst 1900. This includes schematics for crossover and straight-through cables.

Appendix B, “Translated Safety Warnings,” repeats in several languages the warnings in the manual.

Document Conventions

This publication uses the following conventions to convey instructions and information:

Command descriptions use these conventions:

- Commands and keywords are in **boldface** font.
- Arguments for which you supply values are shown in *italics*.
- Elements in square brackets ([]) are optional.
- Alternative or optional keywords are shown in bold and grouped in square brackets ([]) and separated by a vertical bar (|).
- Required keywords are grouped in angle brackets (< >) and separated by a vertical bar (|).

Examples use these conventions:

- Terminal sessions, system displays, and MIB objects are in `screen` font.
- Information you enter is in **boldface screen** font.
- File names are in *italics*.

Notes, cautions, and warnings use the following conventions and symbols:

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.



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 standard practices for preventing accidents.

Related Publications

Related Publications

Catalyst 2820 and Catalyst 1900 MIB Reference Manual

Catalyst 2820 Modules User Guide