About This Manual

Document Objectives

This document will help you prepare your site for installing Cisco Systems' LightStream 2020 multiservice ATM switch (LS2020 switch). Use these instructions to

- Select an equipment rack and cables

- Select space for the system in a computer room, wiring closet, or other suitable area

- Ensure that the selected space meets LS2020 environmental and electrical requirements

- Select the Sun workstation and operating environment that will be used as the platform for using the StreamView network management software

- Obtain IP addresses for your LS2020 switches

- Unpack an LS2020 switch

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

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

Audience

The primary audience for this book is customers who have purchased or are considering purchasing LS2020 switches. The secondary audience includes employees of Cisco Systems and partner companies who need information about setting up LS2020 hardware.

Document Organization

This manual is organized as described below:

- "Welcome to Cisco," describes the support services provided by Cisco Systems.

- "About This Manual," describes this manual's objectives, audience, organization, and related Cisco LS2020 documentation. This section also recommends a reading path and defines the document conventions used in this manual.

- Chapter 1, "Site Preparation," tells you how to prepare your site for installing LS2020 hardware.

- Chapter 2, "Network Management System Requirements," describes hardware and software requirements for the network management station (NMS).

- Chapter 3, "Connectors and Cables," describes the LS2020 I/O interfaces, associated data cables, and power cordsets.

- Appendix A, "IP Addresses," provides background information about IP addressing, masks, and subnets.

- Appendix B, "Unpacking a LightStream 2020 Switch," tells you how to unpack an LS2020 switch from the shipping container.

Acronyms and Abbreviations

The table below lists the acronyms and abbreviations used in this book.

Acronym or Abbreviation	Meaning
Btu	British thermal unit
^{o}C	degrees Celsius
cm	centimeters
db(A)	decibels (A-weighted)
EIA	Electronic Industries Association
EMI	electromagnetic interference
^{o}F	degrees Fahrenheit
'	feet
Hz	Hertz
"	inches
kg	kilograms
km	kilometers
lb	pounds
m	meters
TIA	Telecommunications Industry Association
V	volts
VAC	volts of alternating current
VDC	volts of direct current
W	watts

Related Cisco Documentation

The following is a list of Cisco Systems manuals pertaining to the use of the LS2020 switch:

- *LightStream 2020 System Overview*

  Introduces the LS2020 switch and the asynchronous transfer mode (ATM) technology on which it is based. This document describes the flow of traffic through an LS2020 network, as well as key traffic and network management features.

- *LightStream 2020 Installation Guide*

  Tells you how to install and set up LS2020 switches and how to install the StreamView network management software on your network management workstation (NMS).

- *LightStream 2020 Hardware Reference & Troubleshooting Guide*

  Provides a detailed description of LS2020 hardware and tells you how to diagnose hardware problems and replace faulty components.

- *LightStream 2020 Configuration Guide*

  Provides the information you need to configure LS2020 switches in your network. This document provides a functional overview of the configuration programs, describes the configuration database, and gives detailed step-by-step procedures for setting all configurable LS2020 attributes.

- *LightStream 2020 Network Operations Guide*

  Tells you how to operate a network of LS2020 switches. This task-oriented guide presents an overview of network operations tasks, describes the command line interface (CLI), and presents procedures for monitoring and control tasks, such as displaying the status of nodes, cards and ports, viewing statistics, and creating collections of traffic data.

- *LightStream 2020 NP O/S Reference Manual*

  Provides detailed descriptions of the most frequently used LynxOS commands and the `bash#` shell. It also provides a tutorial introduction and reference guide for the vi editor.

- *LightStream 2020 Traps Reference Manual*

  Presents an overview of LS2020 traps and how such traps are generated. It provides procedures for managing trap reporting, such as setting trap levels, enabling/disabling individual traps, and determining where traps are to be displayed. It also describes all SNMP and operational traps, including trap name, trap text, its cause, and user responses.

- *LightStream 2020 CLI Reference Manual*

  Provides detailed descriptions of the syntax and functions of all CLI commands. It also describes the LS2020 private management information base (MIB).

- *LightStream 2020 Command Line Interface (CLI) Reference Card*

  Summarizes the syntax and arguments of all CLI commands in a compact and easy-to-use form.

- *LightStream 2020 Release Notes*

  Describes new features and special considerations for a specific new LS2020 software release and provides a software upgrade procedure. This document also describes known bugs in the software.

> **Note** The *Release Notes* contain important, release-specific information that was unavailable at the time the regular product documentation was finalized for customer distribution. Read this document before attempting to install, configure, operate, or troubleshoot an LS2020 switch.

- LightStream 2020 Online Help

  Provides online help facilities for the LS2020 command line interface (CLI) and configuration program.

- *Internetworking Terms and Acronyms*

  Provides a glossary of terms and acronyms common to the internetworking disciplines. This document also includes terms of particular interest to users of the LightStream 2020 multiservice ATM switch.