About This Guide

This section discusses the objectives, audience, and conventions of the *LightStream 2020 Network Operations Guide*. It also lists related Cisco documentation for the LightStream 2020 multiservice ATM switch (LS2020 switch).

Document Objectives

The *LightStream 2020 Network Operations Guide* is a task-oriented guide that describes how to operate and manage a network of LS2020 multiservice ATM switches. The guide presents an overview of network operation and management tasks, describes the command line interface (CLI), and provides procedures for monitoring switches and collecting statistics.

Your network should be fully installed and configured before you attempt to operate it. See the *LightStream 2020 Installation Guide* for installation instructions and the *LightStream 2020 Configuration Guide* for information on configuration.

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 current 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 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 *LightStream 2020 Network Operations Guide* is meant for network administrators and operators who manage and operate LS2020 switches. This guide provides detailed procedures to help you operate the LS2020 network after it has been installed and configured.

Users of the LS2020 document set are expected to have a general understanding of basic data communications concepts, some knowledge of UNIX, and a familiarity with the interfaces used by the devices connecting to their LS2020 network.

If you are planning to use the bridging features of the LS2020 product, working knowledge of bridging standards and conventions is recommended. It is also recommended that you have a working knowledge of TCP/IP networks.

Document Organization

This guide has seven chapters.

- Chapter 1, "Operations and Management," lists network operations and management tasks.

- Chapter 2, "Command Line Interface," tells you how to use the command line interface (CLI).

- Chapter 3, "SNMP Commands," describes the SNMP commands available from the CLI.

- Chapter 4, "Monitoring a LightStream 2020 Switch," tells you how to monitor an LS2020 switch and its components.

- Chapter 5, "Setting Configuration Attributes," describes administrative tasks, such as setting the SNMP community, changing configuration attributes using the CLI, and defining bridge filters.

- Chapter 6, "Isolating Problems," details trunk line monitoring, isolating trunk problems, and troubleshooting procedures.

- Chapter 7, "LightStream 2020 Statistics and Data Collections," tells you how to collect and view statistics.

Document Conventions

The following conventions distinguish different types of text:

- Commands and keywords are in **boldface**.

- In interactive examples, user input is in **boldface**.

- In command syntax statements:

  — Parameters (variables for which a specific value is to be typed) are in *italics*.

  — Optional arguments are in square braces.

  — Alternative arguments are separated by vertical bars, and are grouped within curly braces.

- Control keys are indicated by a caret preceding a letter: ^A means Control-A.

Note   Means *reader take note*. Notes contain helpful suggestions or references to material not covered in the manual.

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

Related Documentation

The following is a list of LS2020 manuals and other material relevant to LS2020 switch users.

- *LightStream 2020 System Overview*

  Introduces the LS2020 switch and the Asynchronous Transfer Mode (ATM) technology on which the LS2020 product is based. It describes traffic flow through an LS2020 network and presents key features, such as traffic and network management.

- *LightStream 2020 Site Planning and Cabling Guide*

  Provides guidelines you can use as you prepare your site to receive LS2020 hardware. It includes space, environmental, and electrical requirements; rack selection guidelines; requirements for the management workstation; and information on cables and connectors.

- *LightStream 2020 Installation Guide*

  Tells you how to install and set up LS2020 nodes and how to install StreamView management software on your network management workstation.

- *LightStream 2020 Hardware Reference & Troubleshooting Guide*

  Describes LS2020 hardware components and tells you how to troubleshoot and diagnose component problems. It also gives procedures for configuring and replacing individual components and discusses test and control system (TCS) hub commands.

- *LightStream 2020 Configuration Guide*

  Provides the information you need to configure LS2020 switches. It describes the configuration tools and the procedures for using them, introduces the configuration database, and defines all configurable attributes and their settings. The guide also provides step-by-step configuration procedures.

- *LightStream 2020 Network Operations Guide*

  Presents an overview of network tasks. It introduces the command line interface (CLI) and describes GUI-based monitoring procedures. The manual also describes facilities for viewing statistics and collecting traffic data.

- *LightStream 2020 CLI Reference Manual*

  Presents the syntax and functions of all CLI commands, describes the LS2020 private MIB.

- *LightStream 2020 Command Line Interface (CLI) Reference Car d*

  Compactly summarizes the syntax and arguments for all CLI commands.

- *LightStream 2020 Traps Reference Manual*

  Discusses LS2020 traps and outlines the procedures used to determine whether traps will be logged and where they will be viewed. The manual also describes the major SNMP, operational, and informational traps.

- *LightStream 2020 NP O/S Reference Manual*

  Discusses the most frequently used LynxOS commands and the bash shell. It also provides a tutorial and reference guide for the vi editor.

- LightStream 2020 upgrade procedures and release notes

  Upgrade procedures outline steps involved in upgrading software. Release notes describe new features and special considerations (including known software bugs). Release notes and upgrade procedures are provided for both the platform software and the network management software.

Note The upgrade procedures and release notes include important information that was not available when the other documents were printed.

- LightStream 2020 online help

  The LS2020 CLI and GUI network management tools support online help facilities.

- *Internetworking Terms and Acronyms*

  Presents information on internetworking terms and acronyms, including material of interest to users of the LS2020 switch.

To order these or other Cisco publications, contact your sales representative. (The customer order number for each manual is printed at the bottom of the manual's title page.) Customer service can give you the name of your sales representative if necessary.

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