



About This Manual

This section discusses the objectives, audience, and conventions of the *LightStream 2020 System Overview*. It also lists related Cisco documentation for the LightStream 2020 (LS2020).

Document Objectives

This document provides an overview of the LS2020 enterprise ATM switch. It introduces the LS2020 switch and the Asynchronous Transfer Mode (ATM) technology on which the LS2020 product is based. It describes the traffic flow through an LS2020 network and key features, such as traffic and network management.

Audience

The *LightStream 2020 System Overview* is for anyone who installs, configures, operates, or maintains a LS2020 network or anyone who wants a high-level overview of the LS2020 switch.

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 LightStream 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 document contains six chapters.

- Chapter 1, “ATM Technology,” describes cell relay and ATM technology.
- Chapter 2, “Introduction to LightStream 2020,” provides a high-level description of the LS2020 switch, including sections on why the LS2020 product is needed, product structure, and key features.
- Chapter 3, “Network Connections,” describes the different network connections that can be used to pass traffic through the network. It also describes the services provided by an LS2020 network.
- Chapter 4, “Traffic Management,” explains how the traffic management system allows the LS2020 network to maximize available resources.
- Chapter 5, “Network Management,” describes the different kinds of network management tools and functions used for network operation.

- Chapter 6, “Detecting and Correcting Failures,” describes features provided to help diagnose and correct failures.

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.
- Names of keys on the keyboard are in square braces, for example, the [Tab] key.
- 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 Cisco LS2020 manuals and other material relevant to LS2020 users.

- *LightStream 2020 Site Planning and Cabling Guide*

This guide tells you how to 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*

This guide tells you how to install and set up LS2020 switches and how to install LS2020 management software on your network management workstation.

- *LightStream 2020 Hardware Reference and Troubleshooting Guide*

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

- *LightStream 2020 Configuration Guide*

The configuration guide provides the information you need to configure LS2020 switches. It describes the configuration tools and how to use them. It describes 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*

This guide is a task-oriented book that tells you how to operate a network of LS2020 switches. The guide presents an overview of network operations tasks, describes the command line interface (CLI), and presents procedures for performing monitor 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 Manual*

This manual provides detailed descriptions of the most frequently used LynxOS commands and of the bash shell. It also provides a tutorial introduction and reference guide to the vi editor

- *LightStream 2020 Traps Reference Manual*

This manual presents an overview of LS2020 traps and how they are generated by the LS2020 switch. It provides the procedures for managing trap reporting, such as setting trap levels, enabling/disabling individual traps, and determining where the traps are displayed. It also describes all SNMP and operational traps: the descriptions include trap name, text, cause and user response.

- *LightStream 2020 CLI Reference Manual*

This manual provides detailed descriptions of the syntax and functions of all CLI commands. It also describes the LS2020 private MIB.

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

The reference card compactly summarizes the syntax and arguments of CLI commands

- *LightStream 2020 Release Notes*

The release notes provide a software upgrade procedure and describe new features and special considerations, including information on known software bugs.

Note The release notes contain important information that was not available when the other documents were printed.

- *LightStream 2020 Online Help*

The LightStream 2020 CLI and configuration program both support online help facilities.

- *Internetworking Terms and Acronyms*

This guide is a glossary of terms and acronyms used in the field of internetworking, including material of interest to users of the LightStream 2020.

To order these publications or additional copies of the *LightStream 2020 System Overview*, contact your sales representative. (The Customer Order Number for each manual is located at the bottom of the title page.) Customer service can provide you with the name of your sales representative if necessary.

Phone: 1-800-553-NETS (6387) or (415) 326-1941

E-mail: customer-service@cisco.com

