



# 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 multiservice ATM switch (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 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.

---

## Document Objectives

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

## Audience

The *LightStream 2020 System Overview* is for anyone who installs, configures, operates, or maintains an 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, it is recommended that you have a working knowledge of bridging standards and conventions and 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 in an LS2020 networking environment.

## 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 grouped within curly braces.
- Names of keys on the keyboard are in initial caps (for example, the Tab key). In addition, if a key is referenced in examples of user interaction, it is indicated in **boldface** (for example, press 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 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.

- *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 the graphical user interface (GUI), and it 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, and discusses test and control system (TCS) hub commands.

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

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.

---

- *Internetworking Terms and Acronyms*

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

- *LightStream 2020 Online Help*

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

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.

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

E-mail: [customer-service@cisco.com](mailto:customer-service@cisco.com)