

# Network Management System Requirements

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To manage a network of LightStream 2020 enterprise ATM switches, you must have the StreamView network management software running on a Sun SPARCstation that meets the hardware and software requirements described in this chapter. This Sun workstation, which provides a means of configuring, monitoring, and controlling other LS2020 nodes in your network, is referred to in this document and related LS2020 literature as the *network management system* (NMS).

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**Note** You can run the StreamView network management software either with or without HP OpenView running on the network management system (NMS). However, some StreamView modules, such as the LS-Topology Map (which enables you to view and monitor a graphical representation of your network), require HP OpenView. Therefore, this chapter outlines the requirements for using HP OpenView in conjunction with StreamView.

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## Hardware Requirements

The network management system (NMS) must be a Sun SPARCstation (Sun-4 workstation). Although the StreamView network management software is designed to run on any Sun SPARCstation that runs the SunOS 4.1.x operating system and HP OpenView, only the following workstation models have been tested operationally with StreamView:

- SPARCstation 10
- SPARCstation 20
- SPARCstation 2
- SPARCstation IPX
- SPARCstation IPC

The Sun SPARCstation used as the NMS requires the following:

- At least 32 megabytes (MB) of random access memory (RAM)

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**Note** If you choose not to run HP OpenView, 24 MB of memory may suffice. Furthermore, if you have fewer than eight LS2020 nodes in your network, 24 MB of memory may also suffice.

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- At least 32 MB of swap space, if you *do not run* HP OpenView. If you *do run* HP OpenView, you must configure a minimum of approximately 90 MB of swap space. Consult HP OpenView documentation for more detailed information about reserving swap space.

- A hard disk drive. Cisco Systems recommends a hard disk with a storage capacity of at least 500 MB for a stand-alone workstation that *will not run* HP OpenView; conversely, Cisco Systems recommends a hard disk with a storage capacity of at least 1 gigabyte (GB) for a stand-alone workstation that *will run* HP OpenView. If you plan to load any software other than that described later in the section “Software Requirements,” you may need to increase the size of your hard disk.
- If you *are not running* HP OpenView, you need at least 50 MB of free disk space to load the StreamView network management software.

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**Note** You will need additional disk space to load Motif, X Windows, HP OpenView, or any other software that you choose to install on your NMS.

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- An Ethernet port
- A quarter-inch tape drive for installing the StreamView network management software
- A color monitor to run the StreamView LS-Monitor and LS-Topology Map modules

## Software Requirements

The Sun SPARCstation used as the NMS must have the following software installed:

- SunOS 4.1.x/Solaris 1.1.x

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**Note** The operating system version required for LS2020 network management functions is *not* the default operating system currently being shipped with new Sun workstations. To use the StreamView network management software, you must specifically ask for the SunOS 4.1.x/Solaris 1.1.x operating system.

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- X Window System X11R5
- Motif 1.2 window manager

In addition, you may choose to run HP OpenView network management software on your NMS. Note that you must run HP OpenView if you intend to use the StreamView LS-Topology Map module.

The LS2020 StreamView network management software requires the following HP software versions:

- HP OpenView Version 3.3
- HP OVIC Version 1.4 or later (the HP OpenView installation utilities file set)

For more information about HP OpenView operating requirements, see the *HP OpenView Management Platform Performance and Configuration Guide*.