Installing the Host Software

This chapter describes how to install data host software on various supported host platforms. It contains the following topics:

- Preparing for Installation
- Installing the Remote Management Software
- Installing Host Software for Solaris Hosts
- Downloading the Software
- Installing the Host Software for Windows Hosts
- Installing Host Software for Red Hat Linux, HP-UX, and AIX Hosts
- Installing Host Software for SGI Hosts
- Installing Host Software for NetWare Hosts

Preparing for Installation

Before installing the data host software, verify the following for each data host:

- Operating system and version is supported as described in the release notes
- Host Bus Adapter is installed and supported as described in the release notes
- HBA firmware is at the required level as described in the release notes <<can the firmware be downloaded from Sunsolve download center?>>
- Data hosts are cabled to the array as described in "Connecting Data Hosts" on page 40

Installing the Remote Management Software

The Sun StorEdge 6130 remote management software provides a command line interface (CLI) for configuring the array from a host other than the external management host. The CLI is available for Solaris, Windows, Red Hat Linux, HP-UX, and AIX operating environments. (For a list of supported operating system versions see the *Sun StorEdge 6130 Array Release Notes*.)

<<Note to reviewers: Please review this matrix for accuracy and provide info where you see ???. This table will be moved to the Release Notes at RR, so that only the RN will need to be updated when additional OSs (such as Solaris 10) are qualified. >>

Table 7-1 lists the data host platforms, patches, and drivers supported with this release of the software.

TABLE 7-1 Supported Data Host Platforms

Operating System	Minimum OS Patch	HBA Driver	Multipath Driver	HA Cluster
Windows 2000 Server and Advanced Server	Service Pack SP4	Emulex QLogic	Sun StorEdge Traffic Manager	MSCS 1.0
Windows Server 2003 Standard, Web, and Enterprise Editions	Service Pack SP4			
Red Hat Linux AS/ES/WS 2.1 and AS/WS 3.0 (32-bit)		Sun 7.00.2	Sun StorEdge Traffic Manager	N/S
HP-UX 11.0, 11.11	Patch set September 2003	HP Native	HP LVM	MC/Service Guard
IBM AIX ???	???		???	
Solaris 8, Update 4		SAN Foundation Software 4.5	Sun StorEdge Traffic Manager	Sun Cluster
		JNI	DMP Array Support Library (ASL) [*]	VERITAS Cluster
Solaris 9		SAN Foundation Software 4.5	Sun StorEdge Traffic Manager	Sun Cluster
		JNI	DMP Array Support Library (ASL)	VERITAS Cluster

TABLE 7-1   Supported Data Host Platforms

Operating System	Minimum OS Patch	HBA Driver	Multipath Driver	HA Cluster
Novell NetWare 6	SP4	??	QLogic F/O	Novell Cluster Services NW6.5 - NCS v1.7, NW6.0 - NCS 1.6
Novell NetWare 6.5	SP1.1			
SGI IRIX 6.5.22		??	??	??

* Available for download from http://www.sun.com./software/download/allproducts.html

Installing Host Software for Solaris Hosts

The data host software for Solaris is distributed on the Sun StorEdge 6130 Array Host CD.

Before You Begin

- Check to be sure that the data host is running a supported version of the Solaris operating system, all required patches are applied, and the supported HBA firmware level is installed. Refer to the *Sun StorEdge 6130 Array Release Notes* for a list of supported operating systems, patches, and HBAs.
- The install script installs the following packages:
  - Sun SAN Foundation software
  - Remote Management Software (Remote CLI client) for Solaris
  - Sun Storage Automated Diagnostic Environment software
  - Solaris Host multipathing software Sun StorEdge Traffic Manager (SSTM)

Starting the Installation

To start the installation script:

1. **Log in to Solaris as root.**

2. **Insert the host installation CD into a local drive.**

3. **Change to the cdrom directory:**

   `cd cdrom`

4. **Start the installation script by typing:**

   `./install`

   The following is displayed:

```
                  Host Software Installation
                  --------------------------

This script installs software for your Sun StorEdge(tm) 6130 storage system.

Software components included in this distribution:

        - Sun StorEdge[tm] Data Host Software
        - Sun StorEdge[tm] Management Host Software
        - Sun StorEdge[tm] Remote Management Host Software

Do you want to continue? [y/n] : y
```

5. **Enter y to continue the installation.**

   You are then prompted to select which software package you want to install.

6. **To install the data host software, enter `y` as shown in the following example:**

```
Do you want to install ....

        Sun StorEdge[tm] Data Host Software [y/n] : y
```

7. **Enter y to confirm the software you selected.**

```
You have chosen to install the following components:


        Sun StorEdge[tm] Data Host Software

Is this correct? [y/n] : y
```

   The installation of the data host software takes approximately <TBS> minutes to complete.

   During the installation, you will be prompted to press Return to continue the installation of each package. You will also be asked to accept the terms of the Storage Automated Diagnostic Environment license agreement.

The following is an example of the messages and pathnames of the files that will be displayed during the installation:

\<TBS>

Enabling Sun StorEdge Traffic Manager Software

To enable Sun StorEdge SAN Foundation and Sun StorEdge Traffic Manager software (MPxIO/STMS) on the host:

1. **Open the /kernel/drv/scsi_vhci.conf file with a text editor.**

2. **Set** `mpxio-disable=no` **in the file.**

3. **Reboot the host.**

Downloading the Software

The remote CLI client for non-Solaris hosts is distributed from Sun's Download Center.

To download the software, follow these steps:

1. **From the host where you want to install the software, open a browser window and go to Sun's Download Center at:**

   `http://wwws.sun.com/software/download/sys_admin.html#stor`

2. **Click Sun StorEdge** 6130 ARRAY. \<NEED ACTUAL LINK TITLE>

3. **Click on Sun StorEdge 6000 Family Host Installation Software Download.** \<NEED LINK TITLE>

4. **Click Download to access the download window for all operating systems.**

5. Log in using your customer user name and password.

TABLE 7-2 Remote CLI Client Software for Non-Solaris Operating Systems

Operating System	Software	File
AIX	Sun StorEdge 6000 CLI Package for AIX	aix_README.txt aix_se6x20.tar
HP-UX	Sun StorEdge 6000 CLI Package for HP-UX	hpux_README.txt, hpux_se6x20.tar
Red Hat Linux 7.2	Sun StorEdge 6000 CLI Package for Linux	linux_README.txt inux_se6x20.tar
Windows 2000 server and Advanced Server	Sun StorEdge 6000 CLI Package for Windows	win_README.txt, win_Disk1.zip
Windows Server 2003 Standard, Web, and Enterprise Editions		<TBS>
Novell NetWare		<TBS>
SGI IRIX		<TBS>

The README file contains the latest installation instructions for the client.

6. For AIX, HP-UX, and Linux, use these steps:

a. Click the file to download (see TABLE 7-2**).**

b. The web browser prompts you to download the file. (Download to any directory except /opt**).**

c. Save the SE6X30_host_sw.tar.Z **package to a temporary working directory after you download it.**

cp SE6X30_host_sw.tar.Z /*directory*

d. where /*directory* **is a directory name in which to copy the package.**

e. Change to the temporary directory.

cd /*directory*

f. Uncompress the SE6X30_host_sw.tar.Z **file.**

g. Extract the contents by entering:

tar -xvf SE6x30_host_sw.tar

> **Note –** Note: If checksum errors occur while using platform-specific tar, use the
> GNU version of tar.

7. **For Windows 2000 or Windows 2003, use these steps:**

   a. **Unzip** Disk1.zip **using any zip program that supports Windows.**

   b. **Save the unzipped folder to any directory.**

Installing the Host Software for Windows Hosts

Installing the Remote CLI Client

1. **Download the software for the Windows host as described in "Downloading the Software" on page 65.**

2. **Double click** setup.exe**.**

3. **Read the licensing agreement and answer the licensing question.**

   If you accept the licensing agreement, the software installs on the host.

4. **Open the Command Prompt (From the Start menu, click Programs -> Accessories -> Command Prompt).**

5. **Add** c:\Program Files\Sun Microsystems\SSCS **into your command prompt path.**

   The Remote CLI client is now installed. You can now enter sscs commands in the Command Prompt. For information about the commands, see the sscs(1M) man page.

Installing Host Software for Red Hat Linux, HP-UX, and AIX Hosts

Installing the Remote CLI Client

1. **Download the host software for the appropriate operating system as described in "Downloading the Software" on page 65.**

2. **Log in as superuser (root).**

   If aliases exist in the superuser environment or profile, the software installation and configuration might have unexpected results. Remove any aliases created for the environment (for example, cp="cp -i") before you install or configure the software.

   For the Korn shell: # **unalias -a**

   For the C shell:> **unalias ***

3. **Verify that you have write permissions in** /opt.

4. **Install the package by entering:**

   ./se6x30_install <<What is package name??>>

5. **Read the licensing agreement and answer the licensing question.**

   When you accept the licensing agreement, the software installs in /opt/se6x30 on the host.

6. **Add** /opt/se6x30/bin **to your path.**

7. **Enter** /opt/se6x30/bin/sscs **at the command line.**

   The Remote CLI client is now installed. For more information about the commands, see the sscs(1M) man page.

Installing Host Software for SGI Hosts

<TBS>

Installing Host Software for NetWare Hosts

<TBS>