



Sun StorEdge™ 6320 System 1.3 Release Notes

Release 1.3.5

Sun Microsystems, Inc.
www.sun.com

Part No. 820-3519-10
October 2007, Revision A

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Sun StorEdge 6320 System 1.3.5 Release Notes

The Sun StorEdge™ 6320 system is a complete, preconfigured storage solution.

These release notes provide the latest information about the Sun StorEdge™ 6320 system. The information could affect the installation and operation of the system. Be sure to read this document before you begin the system installation or read other array documentation.

This document applies to Release 1.3.5. The Release Notes consists of the following sections:

- [“Release 1.3.5 Changes” on page 1](#)
- [“System Requirements” on page 2](#)
- [“Software Packages” on page 4](#)
- [“6320 Baseline Patches” on page 5](#)
- [“Known Issues and Bugs” on page 7](#)
- [“Release Documentation” on page 10](#)
- [“Sun StorEdge 6320 System Terminology” on page 11](#)
- [“Service Contact Information” on page 12](#)

Release 1.3.5 Changes

The following changes were added to this release:

TABLE 1 lists the new patches for the 6320 system

TABLE 1 6320 Patches

Sun StorEdge 6320 Array Service Processor Patch	115589-16
Sun StoreEdge 6120 Array Firmware Patch 3.2.7	116931-23

System Requirements

For information about the Sun StorEdge 6320 hardware and software platform installation requirements, refer to the *Sun StorEdge 6320 System Installation Guide*.

For information on the required software packages and patches to update to this release, refer to the next section.

Data Host Software Patches

TABLE 2 lists the minimum level of the software patches required on the data host.

Note – If the data host needs a software package, install it before you install the patches.

TABLE 2 Data Host Software Patches

Platform	Patch Number/Source	Patch Description
Solaris 10 operating system, first release or later	http://www.sunsolve.sun.com	Sun StorEdge SAN Foundation 4.4.6 software
Solaris 9 operating system, first release or later, and Solaris 8 04/01 or later	112392-05 or later http://www.sunsolve.sun.com	Sun StorEdge SAN Foundation 4.2 or higher software: For patch and product information, refer to the <i>Sun StorEdge SAN Foundation 4.x Installation Guide</i> at http://www.sun.com/storage/san Veritas VxVM 3.5 general patch*
Microsoft Windows NT operating systems	Microsoft http://www.sunsolve.sun.com	Microsoft Windows NT Service Pack, SP 6A Sun StorEdge Traffic Manager 3.x NT
Microsoft Windows 2000 Server and Advanced Server	Microsoft http://www.sunsolve.sun.com	Microsoft Windows 2000 Service Pack, SP 3 Sun StorEdge Traffic Manager 3.x Windows 2000
IBM AIX 4.3.3	IBM http://www.sunsolve.sun.com	ML 10 Sun StorEdge Traffic Manager 3.x AIX
IBM AIX 5.1 32 and 64 bit	IBM http://www.sunsolve.sun.com	ML 03 Sun StorEdge Traffic Manager 3.x AIX
HP-UX 11.00 and 11.i	Available from Hewlett-Packard http://www.sunsolve.sun.com	Patch set, September 2002 Sun StorEdge Traffic Manager 3.x HP-UX
Red Hat Linux 7.2 (single-path support only)	Red Hat Linux	Version 2.4.7-10

* Required only for systems running Veritas Volume Manager with the array.

▼ To Install the Data Host Software Patches

Note – Make sure that the hardware in the system has no faults and is fully functional before upgrading or downgrading the software on the system.

1. **Determine the required data host software patches from the list in [TABLE 2](#).**
2. **Go to:**
`http://www.sunsolve.sun.com`
3. **Accept the license agreement, then under Support Resources scroll down to Patchfinder and click on it.**

The Patches and Updates page is displayed.

4. **Under Patchfinder, enter the patch ID and click Find Patch.**
5. **Download the required patches.**
6. **Use the `patchadd(1M)` command in a CLI session to install the host software patches.**

Refer to the README files for more patch information.

If you have trouble finding patches you need using Patchfinder, try using PatchPro (under Legacy Patch Tools, on the same page).

Software Packages

You can manage the Sun StorEdge 6320 with one of the following software packages installed on a host with an Ethernet connection to the array.

- Software packages for Solaris hosts
 - Sun StorEdge 6000 Family Host Installation Software
This package can be used on a Solaris host and includes the Sun StorEdge Configuration Service software, the Storage Automated Diagnostic Environment (Device Edition) software, and the remote configuration command-line interface (CLI) (`sscs`).
Refer to the *Sun StorEdge 6000 Family Host Installation Software Guide* for additional information.
- Software packages for hosts other than Solaris
 - Sun StorEdge Traffic Manager software

- Remote CLI client (thin-scripting client)
- Veritas Array Support Library

This is needed if you require Veritas Volume Manager support with the array.

▼ To Install the Sun StorEdge 6000 Family Host Installation Software

1. Go to:

<http://www.sun.com/download>

2. On the Downloads A-Z tab, click StorEdge 6000 Family Host Installation Software 2.3.

This links you to downloads for all platforms.

3. Click Download.

4. Provide the user name and password to log in.

The license agreement is displayed.

5. Click Accept to accept the license agreement, and then click Continue.

6. To download files, click the file names that are appropriate for your operating system.

7. Run the installation script (`install.sh`) as described in the *Sun StorEdge 6000 Family Host Installation Software Guide*.

6320 Baseline Patches

Revision 1.3.4 must be installed first. This revision must be installed by Sun Service personnel. To contact Service, go to:

<http://www.sun.com/service/contacting>

The following lists the management software patches needed to meet the baseline requirements for Release 1.3.5.

115589-16 – Storage Service Processor software

116931-23 – Array firmware 3.2.5

▼ To Install the Management Host Baseline Patches

Note – Both loopcard firmware 7.20 and controller firmware 3.1 **MUST** be in SYNC. Please check 6320 controller and loopcard firmware versions after applying these patches.

1. Log in to the Storage Automated Diagnostic Environment software on the Storage Service Processor.

For example, enter:

```
https://host-name:7443
```

```
Login: storage
```

```
Password: !storage
```

2. Select Monitor Devices to view devices that can be monitored.

3. Check for alerts on monitored arrays by clicking the array names (for example, sp0-array0).

4. If the arrays are displaying alerts, fix the errors and verify that the arrays are healthy before proceeding.

Refer to the *Sun StorEdge 6320 System 1.2 Reference and Service Manual* for array troubleshooting information.

5. If you need to change the PatchPro source from PatchPro Server to CD-ROM, select Manage > Service > Revision Setup, and under the Patch Source option click on the down arrow to select CD.

6. Click Update Options.

7. Create a new system inventory snapshot:

a. Select Manage > Service > Inventory Maintenance and click Generate New Inventory.

This generates an up-to-date system inventory list.

b. Click Save New Inventory.

This updates your list.

8. Determine and apply the required patches:

a. Click Manage > Service > Revision Maintenance.

b. Click Create New Patch Report.

The system takes about 1 minute to display the Selected Patches link.

You can tell the status by reviewing the Patch Report Status.

c. Click Select Patches.

The system displays the available patches for each device (arrays and the Storage Service Processor).

d. Select the devices that you want to update and click Apply Selected. Alternatively, to update patches in all devices, click Apply All Devices.

The Patch Installation Report generates a log of the applied changes.

e. Click Show Log.

The log displays the progress in installing patches one device at a time. When all of the patches for one device are installed, the log clears and the patches for the next device start logging. (For example, after all the Storage Service Processor patches are installed, the log clears and starts showing the installation of the Array patch.) The log displays a completion message when the session has finished.

f. Repeat Step 7 through Step 8c to rerun the Patch Status Report.

g. If the Patch Status Report still lists patches to update, repeat Step 8d and Step 8e.

9. Click Move to History to save the installation report.

For more information about Storage Automated Diagnostic Environment software, refer to the *Storage Automated Diagnostic Environment User's Guide*.

10. From the Storage Service Processor, use this command to check for correct patch installation of the to see whether the new patches were installed correctly using this command:

```
[sp0]# showrev -p
```

Known Issues and Bugs

The following sections provide information about known issues and bugs filed against this product release:

- [“Bugs” on page 7](#)
- [“Known Issues” on page 8](#)

Bugs

There are no open bugs related to this release. Refer to the patch README file for a list of fixed bugs.

Known Issues

This section includes known issues about this product that are not associated with a Sun bug ID number. This section contains the following topics:

- [“Unable to Delete Volume Pool when Using the Management GUI” on page 8](#)
- [“Changing the Segment Size of an Existing Pool That Is in Use Causes Loss of Data” on page 8](#)
- [“Secure Shell” on page 8](#)
- [“Authenticated Proxy Server” on page 9](#)
- [“Updating Storage Automated Diagnostic Environment Software Drops the Connection” on page 9](#)
- [“Managing the Sun StorEdge 6320 System” on page 9](#)
- [“Netscape Version 4.79” on page 9](#)
- [“Older Browser Versions” on page 9](#)

Unable to Delete Volume Pool when Using the Management GUI

Different Java versions can use different algorithms for password generation and encryption. Therefore, after upgrading a version of Java, all arrays should be unconfigured and then reconfigured again. This replaces an old user password with a new one that is generated by the new Java version.

Changing the Segment Size of an Existing Pool That Is in Use Causes Loss of Data

Changing the segment size of an existing pool that is in use removes the existing pool from the volume, and the data is lost. Therefore, you should not change the segment size of a pool that is in use.

Secure Shell

Secure shell (SSH) through a Sun StorEdge Remote Response/Point-to-Point Protocol interface is supported. LAN SSH connections, however, are not allowed.

Authenticated Proxy Server

You cannot use an authenticated proxy server, which requires a proxy user name and password, to connect to the Internet and access the Sun external patch distribution server.

Service Processor Accessory Tray Cabling

Caution – To reduce the risk of fire, use only a No. 26 AWG or larger UL Listed or CSA Certified telecommunication line cord.

Updating Storage Automated Diagnostic Environment Software Drops the Connection

After the Storage Automated Diagnostic Environment software patch is installed, the application restarts automatically, which enables the changes to take effect. For a brief period, you have no connection to the Storage Automated Diagnostic Environment software. When the restart has finished, you must refresh the display to reestablish the connection.

Managing the Sun StorEdge 6320 System

The Sun StorEdge 6320 system can be managed through either a browser-based graphical user interface (GUI) or a command-line interface (CLI). You can load the CLI client from the Sun StorEdge Configuration Service host CD or download the CLI client from the Sun web site. You install the CLI client on a supported host system on the customer LAN.

Netscape Version 4.79

If you double-click the top bar of the Netscape™ Version 4.79 window or resize the window, there can be a loss of context on the screen. If this happens, bring up the window menu and select Reload.

Older Browser Versions

If you try to configure a large Sun StorEdge 6320 system using an older generation (HTTP 1.0-based) Web browser such as Netscape 4.x or earlier, you could experience time-out conditions from the browser. In large configurations, older browsers need

more time to calculate capacities and can time out before those calculations are complete. In this case, you might need to reload the browser page to continue working with the system.

If timeouts become an issue, update your browser to a version that supports HTTP 1.1 (Netscape 6 or higher).

Updating FRU Versions

After adding a field-replaceable unit (FRU), you must make sure that the FRU version is supported and matches other components. Update the system with the latest patches to update the FRU to the correct version. Use the Storage Automated Diagnostic Environment software installed on the Storage Service Processor to automatically determine and install the baseline patches. See “6320 Baseline Patches” on page 5.

Release Documentation

TABLE 3 lists the documentation for the 6320 and related products. The suffix *nn* in a part number indicates that you should use the most current version. This documentation is available online at:

- <http://docs.sun.com/app/docs/prod/storEdge.6320~se6320#hic>
- <http://www.sun.com/documentation>

TABLE 3 Sun StorEdge 6320 System and Related Documentation

Application	Title	Part Number
Getting started	<i>Sun StorEdge 6320 System 1.2 Start Here</i>	816-7875- <i>nn</i>
Site preparation	<i>Sun StorEdge 6320 System 1.2 Site Prep Guide</i>	816-7877- <i>nn</i>
Safety requirements	<i>Sun StorEdge 6320 System 1.2 Regulatory and Compliance Guide</i>	816-7876- <i>nn</i>
Sun StorEdge 6320 installation procedures	<i>Sun StorEdge 6320 System 1.2 Installation Guide</i>	816-7878- <i>nn</i>
Overview, service, reference, and CLI administration	<i>Sun StorEdge 6320 System 1.2 Reference and Service Manual</i>	816-7879- <i>nn</i>

TABLE 3 Sun StorEdge 6320 System and Related Documentation (*Continued*)

Application	Title	Part Number
Management and configuration help	<i>Sun StorEdge Configuration Service online help</i>	n/a
	<i>Sun StorEdge SSCS (1M) man page</i>	n/a
Storage Automated Diagnostic Environment software troubleshooting and diagnostics	<i>Storage Automated Diagnostic Environment 2.2 User's Guide</i>	817-0822- <i>nn</i>
	<i>Storage Automated Diagnostic Environment 2.2 Release Notes</i>	817-0823- <i>nn</i>
SAN Foundation	<i>Sun StorEdge SAN Foundation 4.2 Release Notes</i>	817-3673- <i>nn</i>
	<i>Sun StorEdge SAN Foundation 4.2 Installation Guide</i>	817-3671- <i>nn</i>
Multipathing support	<i>Sun StorEdge Traffic Manager Software Release Notes</i>	817-0385- <i>nn</i>
Cabinet information	<i>Sun StorEdge Expansion Cabinet Installation and Service Manual</i>	805-3067- <i>nn</i>

Sun StorEdge 6320 System Terminology

The Storage Networking Industry Association (SNIA) is developing a standard set of terminology. When it has been adopted by all storage manufacturers, this terminology standard will make it easier for customers to understand terms used by different vendors.

Sun Microsystems is adopting the SNIA terms now. The Sun StorEdge 6320 system is the first storage product to use the new SNIA terminology list.

TABLE 4 shows the Sun StorEdge 6320 terms and the corresponding SNIA terms used for the Sun StorEdge 6320 system.

TABLE 4 Sun StorEdge 6320 Terminology

Sun StorEdge 6320 Array CLI Terminology¹	SNIA Terminology
Volume	Storage pool
Slice	Volume
LUN	Volume
Administrative domain	Storage array
Partner Group	HA configuration
Array	Tray
Enclosure	Tray
Expansion unit	Expansion unit

¹—This is the Telnet-based CLI terminology used on the Sun StorEdge 6320 arrays.

Service Contact Information

If you need help installing or using this product, go to:

<http://www.sun.com/service/contacting>