# Sun StorEdge™ 6120 Array Release Notes

## Version 3.0.6 Firmware and Sun StorEdge Configuration Service Software Version 2.1.1

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# Sun StorEdge 6120 Array Release Notes

These release notes provide information about the Sun StorEdge™ 6120 array that was not included in the array documentation, but could affect the installation and operation of the array. Be sure to read this document before you begin the array installation. Topics are divided into the following sections:



## Features in this Release

Following are the new features in this release:

## Storage Profiles

Configuration Service adds the following functionality to the storage profiles:

- Ten new profile templates.
- Additional profile details such as RAID settings, read-ahead, and segment size.
- Specific array types to use in the profile.
- All profiles that match the array appear in the Change Profile wizard.

## Access Matrix

Configuration Service adds an Array Access Management page that lists the read and write permissions for each initiator, initiator group, volume, and volume group.

## Administrative Information

Configuration Service adds additional administrative information, including the system's model and vendor.

## Initialize Pool Functionality

Configuration Service's online help and the CLI command **modify pool** can now initialize a pool that is offline.

## Volume Group Parameters

Configuration Service's online help and the man pages have been updated to show that a volume can only be a member of one volume group.

# Product Changes

The following updates have been added to this product that were not included in the product documentation:



## Array Configuration Changes

Sun StorEdge Configuration Service software supports adding and removing expansion units (that is, trays that do not contain controller cards) on existing array configurations using graphical-user-interface (GUI) wizards. This software supports the following array configuration changes:

- Adding expansion units to an existing array 2x2 or 2x4 HA configuration.
- Removing expansion units from an existing array 2x4 or 2x6 HA configuration.

Figure 1 illustrates the HA configurations and the corresponding tray number in the Sun StorEdge Configuration Service software.

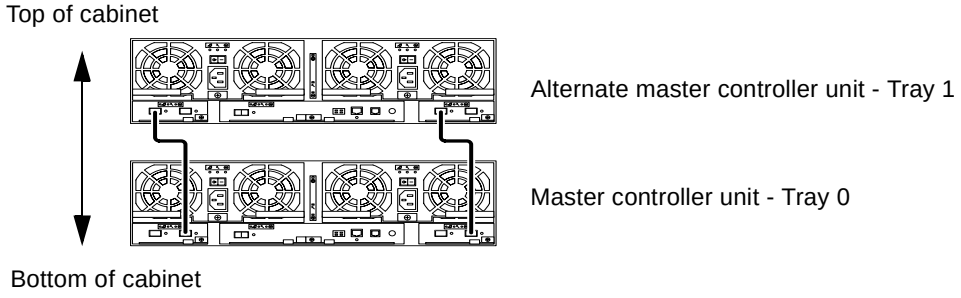


**FIGURE 1** 2x2 HA Configuration and Corresponding Tray Numbers

FIGURE 2 illustrates a Sun StorEdge 6120 array 2x4 HA Configuration and Corresponding tray numbers.

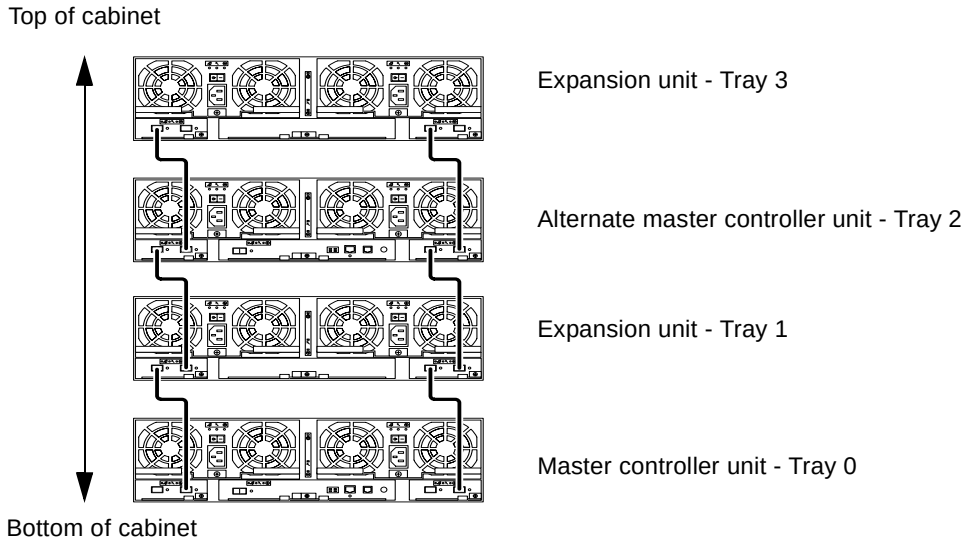


**FIGURE 2** 2x4 HA Configuration and Corresponding Tray Numbers

FIGURE 3 illustrates a Sun StorEdge 6120 array 2x6 HA Configuration and Corresponding Tray Numbers.

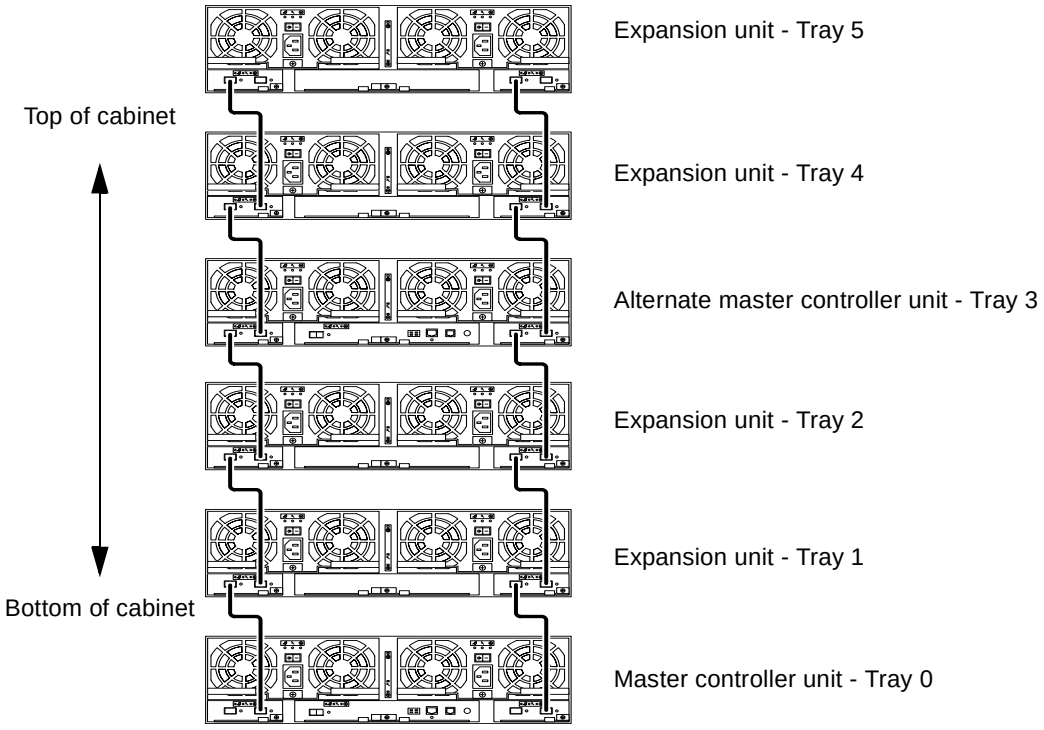


**FIGURE 3** 2x6 HA Configuration and Corresponding Tray Numbers

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**Note –** If you use the management software to change the array configuration, make sure that the master controller unit is identified as Tray 0 before you begin. If the master controller unit has failed over, the alternate master controller unit assumes the master controller unit status. When this happens, the master controller unit tray number updates to the tray number of the alternate master controller unit. To change back to the original configuration and tray numbering, you must reset the array controller.

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### ▼ To View the Expansion Unit Online Help

To review instructions about adding and removing expansion units, access the online help as follows:

1. **Click the online help link in the Sun StorEdge Configuration Service browser.**
2. **Navigate to Administering Your System → Array Details and Tray Reconfiguration.**
3. **Select one of the following options:**
   - To Add an Expansion Unit to an Array
   - To Remove an Expansion Unit from an Array

## Thin-Scripting Client

A thin-scripting client is available for the Solaris operating environment as well as other hosts. The thin-scripting client provides a command-line interface (CLI) that enables access to Sun StorEdge 6120 and management facilities. The client is available for download from:

`http://www.sun.com/`

You can navigate to the site that contains the scripting client files using either of the following methods:

### ▼ To Retrieve the Client from the Sun Download Center

1. **Go to the `http://www.sun.com` home page and click Downloads.**
2. **Go to Browse Downloads by Category and click System Administration.**
3. **Go to Storage Management and click Sun StorEdge 6120 Array - Related Software (the "download" listing appears to be for the Windows platform but actually links you to downloads for all platforms).**
4. **Provide the user name and password to log in.**
5. **Download the appropriate files for your operating system.**

   For example, the files for the Linux operating system are:

   - `linux_se6x20.tar`
   - `linux_README.txt`

   The README file contains the client installation instructions.

### ▼ To Retrieve the Client from the Sun Storage Site

1. **Go to the** `http://www.sun.com` **home page, click Product & Services.**
2. **Go to Browse Products and click Storage.**
3. **Go to Hardware Storage and click Midrange Storage.**
4. **Select Sun StorEdge 6000 Family and click Sun StorEdge 6100 Series.**
5. **Click Sun StorEdge 6120 Array.**
6. **Go to Software Download and click Sun StorEdge 6100 Family Storage Products.**
7. **Provide the user name and password to log in.**
8. **Download the appropriate files for your operating system.**

   For example, the files for the Linux operating system are:

   - `linux_se6x20.tar`
   - `linux_README.txt`

   The README file contains the client installation instructions.

# System Requirements

Sun StorEdge 6120 hardware and software platform requirements, and other supported software, are detailed in the *Sun StorEdge 6120 Array Installation Guide*. This section contains a list of additional software patches and packages that are required for this product release.

## Remote Management Host Software Packages

You must install the following software on the Sun StorEdge 6120 array management host or any network host that is connected to the array:

- Sun StorEdge 6000 Family Host Installation Software (also available on the product CD). Refer to the *Sun StorEdge 6000 Family Host Installation Software Guide* (817-1739-*nn*) for additional information.
- VERITAS Array Support Library. This is required if you have VERITAS Volume Manager support with the array.

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**Note –** You must install the software packages *before* you install the remote management host software patches.

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### ▼ To Download the Remote Management Host Software Packages

1. **Go to**:

   `http://www.sun.com/download`

2. **Select Browse All Products and click View All.**
3. **Click the Sun StorEdge 6120 name.**
4. **Follow the instructions on the site to download the required remote management host software packages.**

### ▼ To Install the Remote Management Host Software Packages

- Run the installation script, as described in the *Sun StorEdge 6000 Family Host Installation Software Guide.*

# Data Host Software Patches

TABLE 1 lists the minimum level software patches that are necessary for the array. These patches must be installed on the data host.

**TABLE 1** Data Host Software Patches

| Platform | Patch Number | Patch Description |
|---|---|---|
| Solaris 9 operating system, first release or later<br>and<br>Solaris 8 operating system, Update 4 or later | Refer to web site | Sun StorEdge SAN Foundation 4.2 software:<br>Refer to the *Sun StorEdge SAN Foundation 4.2 Installation Guide* at `http://www.sun.com/storage/san` for patch and product information. |
| | 112392-04 or later<br>113698-02 | VERITAS VxVM 3.5 general patch[1]<br>VERITAS VxVM 3.5 supplemental general patch[1]<br>• VERITAS VxVM patches must be installed in the order listed.<br>• If you install a later version of patch of 112392, such as the -05 revision, the supplemental patch (113698-02) is not required. |
| Microsoft Windows NT operating systems | Available from Microsoft | Microsoft Windows NT Service Pack, SP 6A |
| | | Sun StorEdge Traffic Manager 3.0 NT |
| Microsoft Windows 2000 Server and Advanced Server | Available from Microsoft | Microsoft Windows 2000 Service Pack, SP 3 |
| | | Sun StorEdge Traffic Manager 3.0 Windows 2000 |
| IBM AIX 4.3.3 | Available from IBM | ML 10 |
| | | Sun StorEdge Traffic Manager 3.0 AIX |
| IBM AIX 5.1 32 and 64 bit | Available from IBM | ML 03 |
| | | Sun StorEdge Traffic Manager 3.0 AIX |
| HP-UX 11.00 and 11.i | Available from Hewlett-Packard | Patch set, September 2002 |
| | | Sun StorEdge Traffic Manager 3.0 HP-UX |
| Red Hat Linux 7.2 (single-path support only) | Available from Red Hat Linux | Version 2.4.7-10 |

### ▼ To Download the Data Host Software Patches

1. **Go to** `http://www.sunsolve.sun.com`**.**
2. **Download the data host software patches listed in** TABLE 1**.**

   You can access these patches by navigating to PatchPro → Network Storage Products.

### ▼ To Install the Patches

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**Note –** You must install the packages *before* you install the patches.

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- **Use the** `patchadd`**(1M) command to install the data host software patches in** TABLE 1**.**

  Refer to the README files for more patch information.

  Localized patches have been released for the Control Software (114950-02) and the Storage Automated Diagnostics Environment (114590-11) into French, Japanese, and Simplified Chinese. These patches can be downloaded and installed on your host using the “patchadd” utility:

  http://sunsolve.sun.com

## Available Patches

Following is a list of the currently available patches:

113193-02 - PatchPro Patch

114285-07 - SE6120 FW v3.0.6

114590-13 - StorADE SUNWstade Support Patch (Host Only)

114591-16 - StorADE SUNWstads Support Patch (Service Processor Only)

114596-01 - SSRR MIRE 28 OPIE Patch

114950-02 - Configuration Services, Storage Profiles, Internationalization, Localization for SE6120.

114960-02 - Configuration Services, Storage Profiles, Internationalization, Localization for SE6320.

115589-01 - Sun StorEDGE 6320 Service Processor Patch

# Known Issues and Bugs

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



## Known Issues

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



### Sun StorEdge Configuration Service Issues

#### *Managing Sun StorEdge 6120s*

You can manage Sun StorEdge 6120s through the management host that is running the Sun StorEdge Configuration Service software. This facility, once installed and configured, enables you to administer arrays using either a browser-based graphical user interface (GUI) or a native host, thin-scripting client. Unlike the Sun StorEdge 6320 system management interface, this software must be loaded on a host that has an Ethernet connection to the array(s) being managed.

**Caution –** Because the Sun StorEdge Configuration Service software retains the array state and configuration service, do not use the array Telnet interface while an array is being managed by the Sun StorEdge Configuration Service.

If you add an array under Sun StorEdge Configuration Service management that had been managed previously with the Telnet interface, you must record and delete all existing LUN access control settings, such as initiator groups and LUN masking settings. After you have done so, you can register the array in the Sun StorEdge Configuration Service tool, reconfigure the storage pools and initiator groups, and set permissions.

## *Netscape Version 4.79*

There is an issue with Netscape™ Version 4.79. Double clicking the top bar of the browser or resizing the window causes loss of context on the screen. If this happens, bring up the window menu and select Reload.

## *Older Browser Versions*

If you are managing the 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 when configuring large Sun StorEdge 6320 systems. 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 time outs become an issue, update your browser to a version that supports HTTP 1.1 (Netscape 6 or higher). This issue affects browser-based administration only and does not affect the Sun StorEdge Configuration Service command-line administration using the thin scripting client.

## *Array Health Status*

When using the Sun StorEdge Configurations Services administration to change network settings, the screen incorrectly displays the array health status as “Error.” If you change array network configurations, you must coordinate the new array network settings with network physical connections. First, update the array settings in the configuration services software, apply the settings, then change the physical network connection to the correct gateway subnet.

## *Pool Initialization Warning Message*

The following message will come up whenever a user is about to initialize a pool. This message is not localized at this time.

```
System detected volumes created in the selected pool(s).
Initializing a pool will destroy any data in these volumes. The
table shows the affected volumes. To continue, click  "Initialize,"
otherwise click "Cancel."
```

## Documentation Issues

Several commands were added to the Sun StorEdge Configuration Service that were not listed in the documentation, as cited here.

### *Listing the Array Status*

This command displays the status information about arrays. The `sscs list arraypower` command-line syntax is shown below.

```
# sscs list -a array-name arraypower
```

TABLE 2 describes the arguments associated with the `list arraypower` subcommand.

**TABLE 2** `sscs list arraypower` Command-Line Arguments

| Argument | Description |
|---|---|
| `-a,--array` *array-name* | Specifies an *array-name* up to 40 characters long. |

### *Modifying Power for an Array*

This command modifies power for an individual array. The `sscs modify arraypower` command-line syntax is shown below.

```
# sscs modify -a array-name arraypower { off | restart | rad }
```

TABLE 3 describes the arguments associated with the `modify arraypower` subcommand.

**TABLE 3** `sscs modify arraypower` Command-Line Arguments

| Argument | Description |
|---|---|
| `-a,--array` *array-name* | Specifies an *array-name* up to 40 characters long. |
| `arraypower` *value* | Where *value* can be either `off` (shutdown the array), `restart` (restart the array), or `rad` (restore the array default values). |

### *Modifying Tray*

This command disables, enables, or unconfigures a controller. The `sscs modify tray` command-line syntax is shown below.

```
# sscs modify -a array-name -d tray-name
```

TABLE 4 describes the arguments associated with the `modify tray` subcommand.

**TABLE 4** `sscs modify tray` Command-Line Arguments

| Argument | Description |
|---|---|
| `-a, --array` *array-name* | Specifies an *array-name* up to 40 characters long. |
| `-u, --unconfigure` *tray-name* | Unconfigures a tray. |
| `-d, --disable` *tray-name* | Disables a tray. |
| `-e, --enable` *tray-name* | Enables a tray. |

## Multiplatform Issue

### *Qlogic Host Bus Adapters*

Qlogic host bus adapters (HBAs) require host-specific flash code. Sun supported Qlogic HBAs could require a flash image update, depending on the platform. TABLE 5 lists the Flash image required for each supported platform.

**TABLE 5** Qlogic Flash Images by Platform

| Platform | Flash Image | HBA Device Driver |
|---|---|---|
| qlc + Win 2K | Qlogic x86 Flash Image | Sun supported driver |
| qlc + Win NT | Qlogic x86 Flash Image | Sun supported driver |
| qlc + Solaris SPARC host | Sun supplied Qlogic HBA | n/a |
| qlc + Linux | Qlogic x86 Flash Image | Red Hat 7.2 |

Should a Flash update be required, contact your Sun Authorized Service Representative for details on obtaining the flash image. See “Service Contact Information” on page 29.

# Bugs

This section contains a list of bugs that are organized by category, and then by the priority and severity within each category. This section is broken into the following categories:



## General Bugs

### *Telnet Fibre Channel Speed*

Currently, the when you request the Fibre Channel (FC) speed using the CLI command `sys fc_speed`, the bandwidth is displayed incorrectly as 1 Gb, even when there is a different bandwidth available. #4872969

*Workaround*
Use the CLI command `sys list` to display the proper FC speed.

### *Loopcard Boot Message*

While booting the system, in a master and slave loopcard environment, you might see the following message:

```
"Unable to obtain mid-plane serial number"
```

This is caused by an inadequate timeout to allow the master loopcard to boot before the slave loopcard. This condition, however, should have no bearing on the operation of your system. #4845755

## Sun StorEdge Configuration Service Bugs

### *Sun StorEdge Configuration Service Wizards*

The Sun StorEdge Configuration Service wizards instruct you to add or remove expansion trays in a storage array. The wizard then direct you to physically remove or add the required expansion trays, then recable and power on the newly configured storage array. You must allow enough time for the storage array to boot completely before clicking the Next button. Otherwise, if you proceed to the next screen before the newly configured storage array boots completely, the wizard can

time out because it cannot communicate with the storage array. When a timeout occurs, this indicates that the storage array was not ready to communicate over the Ethernet connection. #4863467

*Workaround*
If the wizard times out before the array boots, click the Retry button in the wizard to reattempt communication with the array. If the wizard is unable to communicate with the storage array, and you do not initiate a retry, eventually the wizard will log off. If the wizard logs off during a tray addition procedure, and if storage pools existed in the original configuration, those pools will not be placed online automatically by the wizard. You must then manually place the storage pools online using the Sun StorEdge Configuration Service tool *after* the array has booted completely.

### *Localized Array Registration Tab*

In the localized version of the Configuration Service software, when you select the Array Registration tab it incorrectly displays the information for the Profiles tab instead. #4908973

*Workaround*
Click on the Array Registration tab to get the Profiles information.

## Sun StorEdge 6120 Array Bugs

### *Adding an Array with the Add Expansion Tray Wizard*

When adding an expansion array with the Add Expansion Tray wizard (Administration → General → Array Power → Management → *array_name* → Add Expansion), the online help does not properly clarify the consequences of placing the existing pools online. #486615

The online help should read:

(Optional) Select the Online Existing Pools option to place the existing storage pools online.

If you do not selected this option, the existing storage pools remain offline.

If you place the existing storage pools online, then storage arrays are available.

If you do not place the storage pools online, the storage arrays are unavailable.

You can also place storage pools online later, as described in the section, To Place a Storage Pool Online or Offline.

### *Copy-Back Reconstruction Rates*

Reconstructing data from a standby drive to a replaced drive is performed at a high reconstruction rate, regardless of the array's global reconstruction rate setting. This results in increased host latency during the copy-back from the standby drive as the array conducts this operation in the shortest amount of time. When the copy-back operation is complete, the array response to host I/Os resumes to normal performance levels. Reconstruction of data on the array to the standby disk (after the initial drive failure is detected), responds correctly to the reconstruction rate tunables that are configured on the array. #4862463

*Workaround*
Schedule a drive replacement procedure during an array maintenance period to avoid impacting array performance during normal operations.

### *Loopback Tests*

In order for the loopback test on the array to work properly, a Fibre Channel device must first be attached to the loop. #4825088

*Workaround*
Use the `sim_diag` command to diagnose host loop issues. This command must be used only by Sun authorized service providers. Before running this command, make sure that a Fibre Channel device is connected to the array and that the array `sys fc_topology` setting is set to `loop` mode. For more information on these array commands and settings, refer to the *Sun StorEdge 6020 and 6120 Arrays System Manual*.

### *Enable Command*

If the command `enable` fails to enable a drive in an array Telnet CLI session, an error message is not displayed on the console; however, an error message is recorded in the array `syslog` file. #4845863

*Workaround*
If you are using the `enable` command to enable a drive, check the `syslog` file to make sure the command executed correctly.

### *Offline Diagnostics*

Due to known issues with the offline diagnostics (`ofdg`) facility on Sun StorEdge 6120s, inconsistent results are sometimes reported. #4794710

*Workaround*
Confirm results that are obtained from the output of the array command `ofdg`. Obtain other supporting evidence, such as corresponding `syslog` messages, or `fru stat` command output, or contact your Sun service representative (see "Service Contact Information" on page 29).

### *LED Command*

The `led` command, which issues commands to array controller LEDs, works only for the first array in an array HA configuration. For example, the following command correctly turns off the amber, blue, and green LEDs on the first array's controller (#4801209):

```
led -e 1 -f controller -l busy
```

However, using the same command as follows does not change the second array's controllers LEDs in an HA configuration:

```
led -e 2 -f controller -l busy
```

## Online Help

### *Localized Help PDF Unavailable*

In the localized versions of the Sun StorEdge Configuration Service software, the link "Help in Adobe Acrobat PDF Format" to the file `help.pdf` is unavailable. #4863940

### *Localized Help is Currently Invalid*

The localized help has not yet been updated for this release and is invalid. #4908598

# Installing the 6120 in a Sun Rack 900

This section describes the procedure to install the expansion rails from the Sun StorEdge 6120 3U Rack Kit into the Sun Rack 900 (X6876A). Refer to Chapter 3 of the Sun StorEdge 6120 Array Installation Guide for details on placing the array in the rack.

## Rail Expansion Kit for the Sun Rack 900

### Prerequisite

To install the array into a Sun Rack 900 cabinet, you must order the Sun StorEdge 6120 array with the Sun StorEdge 6120 3U Rack Kit, Sun Rack 900 (X6876A).

### Packing Contents

The rail expansion hardware is 3 rack units (Us) high. You can install up to 10 arrays into a Sun Rack 900.

The following items are shipped with the Sun Rack 900 rail expansion kit:

- Two cabinet expansion rails
- Ten mounting screws for cabinet rails: 6 X M6 - 4 x 10-32
- Eight mounting screws for the array:  4 X M6 - 4 X 10-32

# Installation Procedure

1. **Prepare the cabinet for the installation.**

   Refer to the Sun Rack Installation Guide for specific instructions.

   **a. Stabilize the cabinet as described in the Sun Rack Installation Guide.**

   - Adjust the leveling feet with the wrench to level the vertical position.

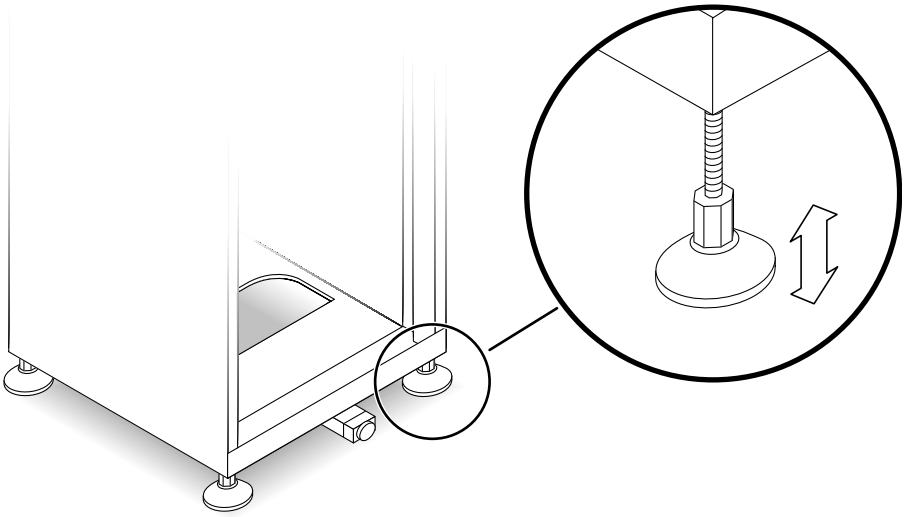

**FIGURE 4** Adjusting a Leveling Foot

**b. Deploying the Antitilt Bar**

- Pull out the end of the antitilt bar to its fully extended position.
- Rotate the foot 90 degrees and adjust its height to rest on the floor.

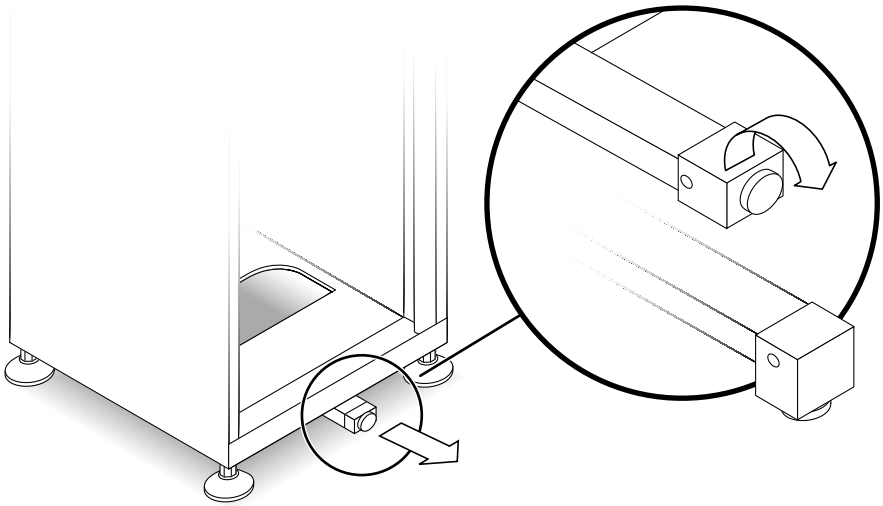

**FIGURE 5** Deploying the Antitilt Bar

**c. Remove or open the top front panel.**

**d. Remove or open the vented rear panel.**

**2. Place the left side rail in the cabinet in the first available position from the bottom.**

Loosely align the side rail's rear bracket over the **outside** face of the cabinet's rear rail. At the same time, align the side rail's front bracket to the **inside** face of the front rail.

**3. If the rail fits, proceed to Step 4. If not, adjust the rail size with the rear brackets:**

**a. Measure the depth of the cabinet from the inside face of the front mounting rail to the outside face of the rear mounting rail.**

**b. Measure the distance from the outside face of the side rail's front bracket to the inside face of the rail's rear bracket. Adjust the rear bracket with Steps c to e, as necessary.**

**c. Loosen the four expansion screws holding the rear bracket to the side rail (**FIGURE 6**).**

**d. Slide the rear bracket to accommodate the depth of the cabinet.**

**e. Tighten the screws to resecure the rear bracket to the side rail.**

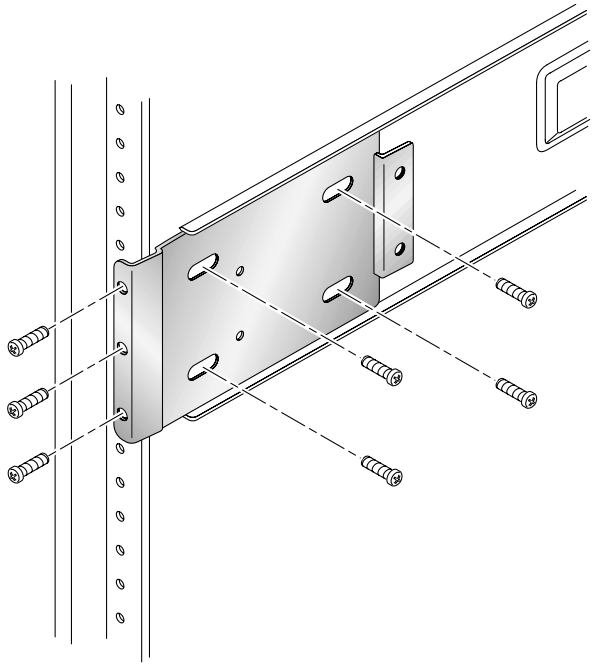

**FIGURE 6** Mounting the Rear Expansion Bracket of the Side Rail

4. **Align the three rear holes of the side rail with the holes for three Rack Units (RUs) in the rear mounting rail of the cabinet (**FIGURE 6**).**
5. **Install three mounting screws into the rear rail holes. Tighten all screws.**
6. **Repeat Steps 2 through 5 for the right side rail.**

7. **From the front of the Sun Rack 900, align the front bracket of the left side rail *behind* the vertical mounting rail (**FIGURE 7**).**

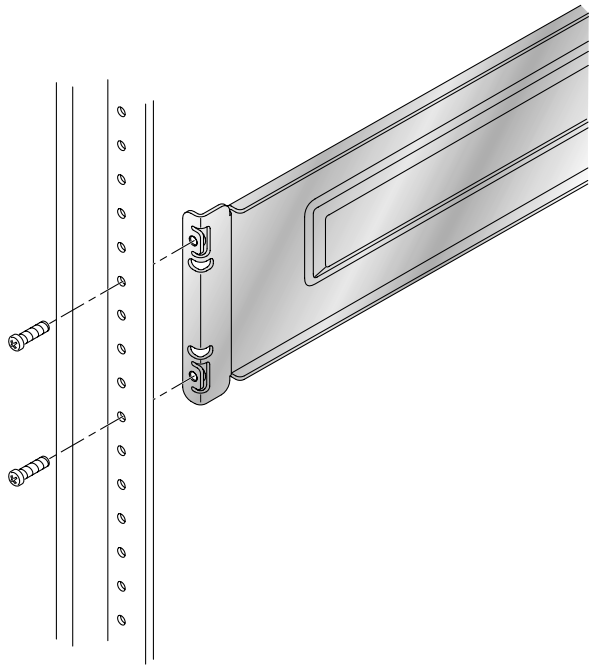

**FIGURE 7** Attach the front bracket of the side rail behind the mounting rail.

8. **Insert and tighten two screws through the vertical mounting rail to the front bracket of the side rail.**

9. **Repeat Steps 7 and 8 for the right side rail.**

**Caution –** Use two people to lift and move the array for Step 10. Use care to avoid injury. An array can weigh up to 90 pounds (41 kg).

**Caution –** The cabinet can become front-heavy while an array is being installed. Unless your cabinet is bolted to the floor, ensure that the stabilizer legs are extended before proceeding. Failure to extend the legs can result in the cabinet tipping forward and injuring personnel.

10. **Lift the array and align the forked ends of the array rear brackets with the rack rails (**FIGURE 8**).**

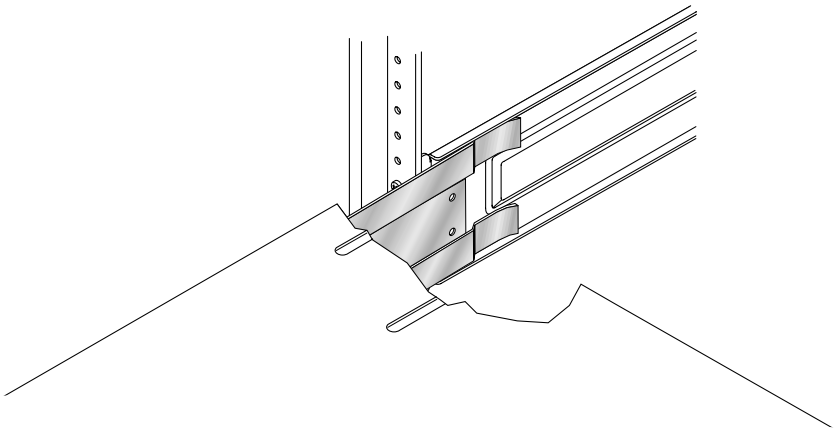

**FIGURE 8** Inserting the array rear bracket into the rack rail.

11. **Insert the brackets of the array into the rails.**
12. **Slide the array into the cabinet until the front brackets touch the front mounting rails.**

    The array should slide into the cabinet smoothly.

13. **Secure the array by tightening the screws to hold the array bracket to the front mounting rail (**FIGURE 9**).**

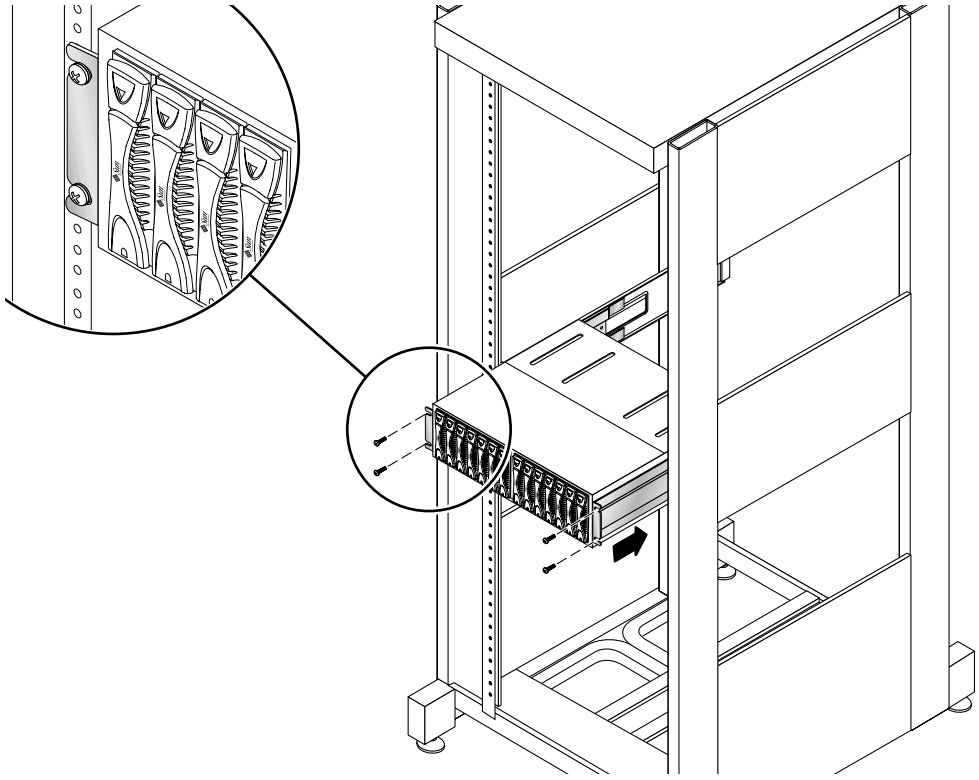

**FIGURE 9** Securing the Array with the Front Screws

14. **Secure the left rear bracket of the array to the side rail using two screws (**FIGURE 10**).**

    The screw holes on the array rear bracket should align with the holes on the side rail. The screw holes are located on the side rail after the four expansion screws used in Step 3. Access them from the rear of the cabinet.

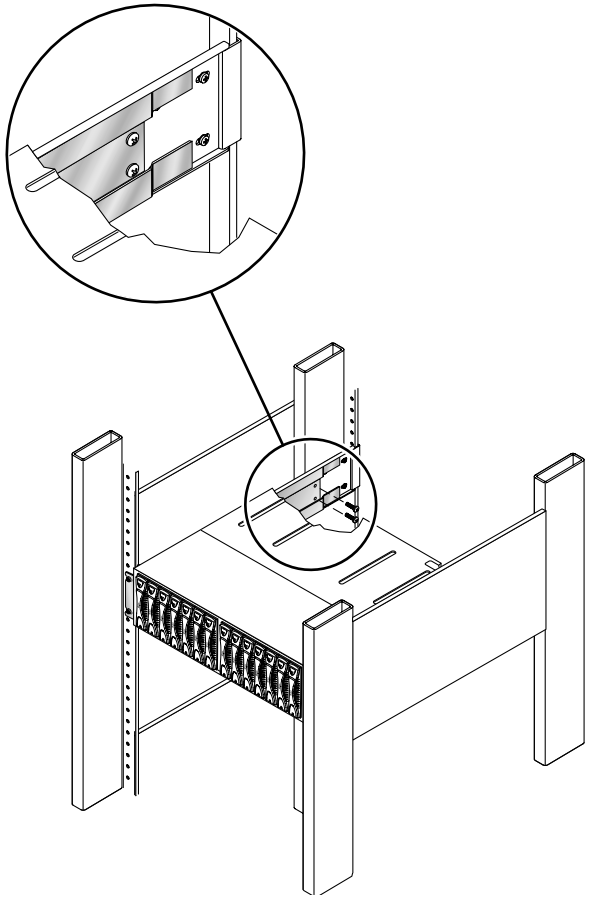

**FIGURE 10** Securing the 6120 Rear Bracket to the Side Rail with Two Screws

15. **Repeat Step 14 for the right rail. Continue to follow this procedure for each Sun StorEdge 6120 array and expansion unit that you install.**

# Release Documentation

TABLE 6 lists the documentation for the Sun StorEdge 6120 and related products. Documents that cite the suffix *nn*, imply that you should use the most current version. This documentation is available online at:

- `http://www.sun.com/documentation`
- `http://www.docs.sun.com`

**TABLE 6** Sun StorEdge 6120 Array and Related Documentation

| Application | Title | Part Number |
|---|---|---|
| Installation and documentation overview | *Sun StorEdge 6120 Array Start Here* | 817-0198-*nn* |
| Release information | *Sun StorEdge 6120 Array Release Notes* | 817-0201-13 |
| Site preparation | *Sun StorEdge 6120 Array Site Preparation Guide* | 817-0960-*nn* |
| Safety requirements | *Sun StorEdge 6120 Array Regulatory and Safety Compliance Manual* | 817-0961-*nn* |
| Array install procedures | *Sun StorEdge 6120 Array Installation Guide* | 817-0199.*nn* |
| Management software installation | *Sun StorEdge 6000 Family Host Installation Software Guide* | 817-1739-*nn* |
| Overview, service, reference, and CLI administration | *Sun StorEdge 6020 and 6120 Arrays System Manual* | 817-0200-*nn* |
| Management and configuration help | *Sun StorEdge Configuration Service online help* | n/a |
| | *Sun StorEdge SSCS (1M) man page* | n/a |
| StorADE troubleshooting and diagnostics | *Storage Automated Diagnostic Environment 2.2 User's Guide,* | 817-0822-*nn* |
| | *Storage Automated Diagnostic Environment 2.2 Release Notes,* | 817-0823-*nn* |
| SAN Foundation | *Sun StorEdge SAN Foundation 4.2 Release Notes* | 817-1246-*nn* |

**TABLE 6** Sun StorEdge 6120 Array and Related Documentation *(Continued)*

| Application | Title | Part Number |
|---|---|---|
| | *Sun StorEdge SAN Foundation 4.2 Installation Guide* | 817-1244-*nn* |
| Multipathing support | *Sun StorEdge Traffic Manager Software Release Notes* | 817-0385-*nn* |
| Cabinet information | *Sun StorEdge Expansion Cabinet Installation and Service Manual* | 805-3067-*nn* |
| Sun Rack information | *Sun Rack Installation Guide* | 816-6386-*nn* |

# Sun StorEdge 6120 Array Terminology

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

Sun Microsystems is making a move to adopt the SNIA terms now. The first storage product to use the new SNIA terminology is the Sun StorEdge 6000 family product line.

TABLE 7 shows a comparison (mapping) of the array Telnet terms to the terms used by the Sun StorEdge Configuration Service management software.

**TABLE 7** Sun StorEdge 6120 Terminology

| Array Telnet CLI Terminology | Sun StorEdge Configuration Service Software Terminology |
|---|---|
| Volume | Storage Pool |
| Slice | Volume |
| LUN | Volume |
| Administrative Domain | Storage Array |
| Partner Group | HA Configuration |
| Array | Tray |
| Enclosure | Tray |
| Expansion Unit | Expansion Unit |

# Service Contact Information

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

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