



# Sun StorEdge™ 3310 SCSI CLI Guide

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Adobe PostScript

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# Preface

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The *Sun StorEdge 3310 SCSI CLI Guide* contains the syntax and commands for monitoring and configuring the Sun StorEdge™ array from an operating environment command line interface.

This manual is written for experienced system administrators who are already familiar with Sun's hardware and software products.

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## How This Book Is Organized

This book contains the following topics:

Chapter 1 provides instructions on installing and accessing the CLI and describes the supported command modes.

Chapter 2 explains the device name, lists the options, and provides the available subcommands along with sample code.

Appendix A contains a list of CLI error messages.

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# Using UNIX Commands

This document might not contain information on basic UNIX® commands and procedures such as shutting down the system, booting the system, and configuring devices.

See one or more of the following for this information:

- *Solaris Handbook for Sun Peripherals*
- AnswerBook2™ online documentation for the Solaris™ operating system
- Other software documentation that you received with your system

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# Typographic Conventions

TABLE P-1

Typeface*	Meaning	Examples
AaBbCc123	The names of commands, files, and directories; on-screen computer output	Edit your <code>.login</code> file. Use <code>ls -a</code> to list all files. <code>% You have mail.</code>
<b>AaBbCc123</b>	What you type, when contrasted with on-screen computer output	<code>% su</code> Password:
<i>AaBbCc123</i>	Book titles, new words or terms, words to be emphasized	Read Chapter 6 in the <i>User's Guide</i> . These are called <i>class</i> options. You <i>must</i> be superuser to do this.

\* The settings on your browser might differ from these settings.

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## Related Documentation

Application	Title	Part Number
Late-breaking news	<i>Sun StorEdge 3310 SCSI Array Release Notes</i>	816-7292
Installation and service	<i>Sun StorEdge 3310 SCSI Array Installation, Operation, and Service Manual</i>	816-7290
Best practices	<i>Sun StorEdge 3310 SCSI Array Best Practices Manual</i>	816-7293
Safety and compliance	<i>Sun StorEdge 3310 SCSI Array Safety, Regulatory, and Compliance Manual</i>	816-7291
Firmware	<i>Sun StorEdge 3310 SCSI RAID Firmware Guide</i>	816-7296
Monitoring and configuration software	<i>Sun StorEdge 3310 SCSI Configuration Service User Guide</i>	816-7298
Reporting software	<i>Sun StorEdge 3310 SCSI Diagnostic Reporter User Guide</i>	816-7722

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## Technical Support

For late-breaking news and troubleshooting tips, review the *Sun StorEdge 3310 SCSI Array Release Notes* located at:

[www.sun.com/products-n-solutions/hardware/docs/Network\\_Storage\\_Solutions/Workgroup/3310](http://www.sun.com/products-n-solutions/hardware/docs/Network_Storage_Solutions/Workgroup/3310)

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1-800-USA4SUN

To obtain international technical support, contact the sales office of a specific country at:

[www.sun.com/service/contacting/sales.html](http://www.sun.com/service/contacting/sales.html)

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[http://www.sun.com/products-n-solutions/hardware/docs/Network\\_Storage\\_Solutions/Workgroup/3310](http://www.sun.com/products-n-solutions/hardware/docs/Network_Storage_Solutions/Workgroup/3310)

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# Overview

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The Storage Management Command Line Interface provides the capability to download firmware, reset the controller, and display specific information for the Sun StorEdge 3310 SCSI array from an operating environment command line interface. The CLI utility communicates with the storage subsystem by using in-band communication with the RAID controller over connections.

This chapter introduces the CLI and includes the following topics:

- “Supported Platforms” on page 1
- “Installing and Accessing the CLI” on page 2
- “Supported Command Modes” on page 4

---

## Supported Platforms

- Solaris 8 and Solaris 9 operating environments
- Microsoft® Windows NT® and Windows® 2000

---

# Installing and Accessing the CLI

## Before You Begin

Before you install the CLI utility, make sure that a logical drive is mapped to the primary controller.

### ▼ To Install the CLI on Systems Using the Solaris Operating Environment

The CLI installation package, `SUNWsccli`, can be obtained from the Sun StorEdge 3310 SCSI Professional Storage Manager CD. It must be installed on a server that is attached to the Sun StorEdge array.

1. Insert the Sun StorEdge 3310 SCSI Professional Storage Manager CD and type

```
# pkgadd -d/cdrom/cdrom0/product/solaris SUNWsccli
```

2. To access the CLI, log in as `root` on the server that you installed the CLI and that is attached to the Sun StorEdge array, and type

```
# sccli (with options and subcommands as described in this guide)
```

---

**Note** – If you do not have `/usr/sbin` in your `PATH` environment variable, you can invoke the CLI as `/usr/sbin/sccli`.

---

### ▼ To Access the Man Page

Without specifying environment variables, type

```
# man -M /opt/SUNWscs/man sccli
```

---

**Note** – If you do not want to specify the man page directory each time, add the directory `/opt/SUNWsscscs/man` to the colon-separated list of directories in the `$MANPATH` environment variable.

---

## ▼ To Install the CLI on Microsoft Windows NT/2000 Operating Systems

The CLI installation package, `SUNWsccli.exe`, can be obtained from the Sun StorEdge 3310 SCSI Professional Storage Manager CD. It must be installed on a server that is attached to the Sun StorEdge array.

1. **Insert the Sun StorEdge Professional Storage Manager CD and go to the `\product\windows` directory.**
2. **Either double-click or copy `SUNWsccli.exe` to a local drive, and proceed through the series of windows and prompts to complete the installation.**

The default installation directory is `C:\Program Files\Sun\sccli`.

3. **To access the CLI, go to Start → Programs → Sun StorEdge 3000 Family → Command Line Interface.**

## ▼ To Access Help

Go to Start → Programs → Sun StorEdge 3000 Family → Command Line Help.

---

# Supported Command Modes

The CLI utility supports single command mode and prompting mode as shown in the following examples.

You can type the entire command on the command line:

```
# sccli /dev/rdsk/clt0d0s2 show events
```

Or you can specify the device on the command line:

```
# sccli /dev/rdsk/clt0d0s2  
sccli> show events  
:  
sccli> quit
```

Or you can specify nothing on the command line:

```
# sccli  
Available devices:  
  1. /dev/rdsk/clt0d0s2 [SUN StorEdge 3310 00028E]  
  2. /dev/rdsk/clt1d0s2 [SUN StorEdge 3310 00028F]  
Enter selection: 1  
sccli> show events  
:  
sccli> quit
```

## Options and Subcommands

---

This chapter explains the device name, lists the options, and provides the available CLI subcommands along with sample code. Topics covered in this chapter include:

- “Specifying the Device Name” on page 5
- “Options” on page 7
- “Subcommands” on page 8

---

**Note** – To prevent unauthorized access, the CLI utility requires superuser or administrator privileges.

---

---

### Specifying the Device Name

Except for the `help`, `about`, and `version` subcommands, all CLI subcommands require the specification of a device filename.

For systems using the Solaris operating environment, the device name is typically specified as:

```
/dev/rdisk/cXtYdZs2
```

where:

*X* = controller number

*Y* = scsi target number

*Z* = logical unit number

*s2* = slice 2 of the (logical) disk. Usually, slice 2 is specified when identifying a disk for administrative purposes, but any slice number between 0 and 7 (if the slice exists) work.

For Microsoft Windows NT/2000 operating systems, the device name is specified using the Window's internal device name for the physical device.

```
PhysicalDriveN
```

where *N* corresponds to the disk number displayed in the Disk Administrator, for example:

```
PhysicalDrive2
```

---

**Note** – If no device is specified on the command line, and more than one Sun StorEdge array is connected to the host, a menu of devices is presented with one device filename for each array. If there is only one StorEdge array device connected to the host, that device is selected automatically.

---

---

**Note** – The sample code shown throughout this code is based on systems using the Solaris operating environment.

---

---

# Options

```
-y, --yes
```

Assume a `yes` response to any `yes/no` prompts. This is used to allow dangerous commands to be run from a script without prompting the user.

```
-n, --no
```

Assume a `no` response to any `yes/no` prompts.

```
-v, --version
```

Displays the version number of the CLI utility and exits without processing any subcommands.

```
-h, --help, --usage
```

Displays a usage message.

## Options Usage

```
# sccli option device subcommand
```

---

# Subcommands

---

**Note** – If no subcommand is entered on the command line, the CLI enters an interactive mode, prompting you to enter subcommands until the `quit` command is entered. All subcommands operate on the currently-selected device.

---

---

**Note** – The secondary controller in dual-controller configurations does not support any administrative functions. In *active/active* configurations where LUNs are assigned to both the primary and secondary controllers, the CLI command can be used only with those LUNs assigned to the primary controller.

---

## about

Displays version and copyright information.

```
# sccli about
```

```
# sccli about
sccli version 1.0.2
Sun StorEdge 3000 Family CLI
Copyright 2002 Dot Hill Systems Corporation
All rights reserved. Use is subject to license terms.
```

## clear events

Clears the array's internal event log.

```
# sccli device clear events
```

```
# sccli /dev/rdisk/c0t5d0s2 clear events
```



# download



---

**Caution** – All `download` commands are potentially dangerous. Use only as instructed.

---



---

**Caution** – All `download` commands cause the array to stop responding to I/O requests from the host for a period of time. This might result in data loss unless all I/O activity is suspended by halting all applications that are accessing the array, and unmounting any file systems that are mounted from the array. In redundant-controller configurations, these commands affect all LUNs on both controllers. After running a `download` command, you need to run the `select` command to reselect the device.

---



---

**Caution** – Stop the Configuration Service Agent if it is running.

---

---

**Note** – Although redundant controller configurations support live firmware upgrades using its failover capability, the failover operation itself might cause warning messages to be displayed on the console or system log. These messages can be ignored.

---

---

**Note** – If the `download` firmware files are not under the same directory as the CLI, you need to specify the full path.

---

## download controller-firmware

Downloads firmware into the controller. In a dual-controller configuration, the failover capability of the redundant controller pair is used to activate the new firmware without requiring the array to be shut down in what is known as a live upgrade or hot firmware download operation. In a single controller configuration, the new firmware is activated by resetting the controller.

If the `-r` or `--reset` option is specified, the controllers are always reset instead of performing a live upgrade. This option is faster and is recommended when a live upgrade is not required.

If `boot-record` is specified, it names an additional file that is downloaded at the same time.

```
# sccli device download controller-firmware [-r | --reset] filename  
[boot-record]
```

```
# sccli /dev/rdisk/c0t5d0s2 download controller-firmware c:\SUN 325k-  
3310.bin c:\ b32a131e  
WARNING: This is a potentially dangerous operation. The controller  
will go offline for several minutes. Data loss may occur if the  
controller is currently in use.  
Are you sure? y  
sccli: Downloading boot record...done  
sccli: Downloading controller firmware...programming flash  
memory...done  
sccli: Engaging controller...done  
sccli: /dev/rdisk/c0t5d0s2: device reset  
sccli: /dev/rdisk/c0t5d0s2: waiting for device to be ready  
sccli: /dev/rdisk/c0t5d0s2: device is ready
```

## download disk-firmware

Downloads disk driver firmware into disk drives connected to the Sun StorEdge array. If a `disk-model` string is specified, it is matched against SCSI INQUIRY data to determine which drives to program.

---

**Note** – To download firmware to expansion unit disk drives, the drives must be attached to the Sun StorEdge array. That is, the CLI utility does not download firmware to JBODs directly.

---

When using this command:

- All daemons that access the RAID controller must be stopped.
- I/O is interrupted.
- The controller is reset after disks are flashed.

```
# sccli device download disk-firmware filename disk-model
```

```

# sccli /dev/rdisk/c0t5d0s2 download disk-firmware c:\ST3366051.0538.fw
"ST336605LSUNS6G"
WARNING: This is a potentially dangerous operation. The controller
will go offline for several minutes. Data loss may occur if the
controller is currently in use.
Are you sure? y
sccli: controller is shut down and ready for disk firmware download
sccli: Sending disk firmware data...
sccli: flashing firmware data, please wait...
sccli: Disk firmware download done
Download Status Report
-----
Disk Firmware download completed (CH 0 ID 0)
Disk Firmware download completed (CH 0 ID 1)
Disk Firmware download completed (CH 0 ID 2)
Disk Firmware download completed (CH 0 ID 3)
Disk Firmware download completed (CH 0 ID 4)
Disk Firmware download completed (CH 0 ID 5)
Disk Firmware download completed (CH 0 ID 8)
Disk Firmware download completed (CH 0 ID 9)
Disk Firmware download completed (CH 0 ID 10)
Disk Firmware download completed (CH 0 ID 11)
Disk Firmware download completed (CH 0 ID 12)
Disk Firmware download completed (CH 0 ID 13)
-----
sccli: Resetting controller...Done
sccli: /dev/rdisk/c0t5d0s2: waiting for device to be ready
sccli: /dev/rdisk/c0t5d0s2: device reset
sccli: /dev/rdisk/c0t5d0s2: device is ready

```

## download safte-firmware

Downloads firmware into the SAF-TE microprocessor in a Sun StorEdge array enclosure controller.

When using this command:

- All daemons that access the RAID controller must be stopped.
- I/O is interrupted.
- The controller is reset after disks are flashed.

```

# sccli device download safte-firmware filename

```

```

# sccli /dev/rdisk/c0t5d0s2 download safte-firmware saftefw.bin
WARNING: This is a potentially dangerous operation.
Are you sure? y
sccli: controller is shut down and ready for SAFTE firmware
download
sccli: Downloading SAFTE firmware package to SAFTE targets

sccli: downloading SAFTE module: EMU ENVIRONMENTALS.....
.....
      CH 0 ID 14 succeeded

sccli: downloading SAFTE module: EMU ISEMS.....
      CH 0 ID 14 succeeded

sccli: downloading SAFTE module: EMU LED CONTROLLER.....
      CH 0 ID 14 succeeded

sccli: downloading SAFTE module: POWER SUPPLY CTRL.....
.....
      CH 0 ID 14 succeeded

sccli: downloading SAFTE module: SAFTE HC11.....
.....
.....
.....
      CH 0 ID 14 succeeded
sccli: SAFTE firmware package download succeeded (rev A000 CH 0 ID
14)
Download Status Report
-----
SAF-TE Firmware download completed (CH 0 ID 14)
-----
sccli: Resetting controller...Done
sccli: /dev/rdisk/c0t5d0s2: waiting for device to be ready
sccli: /dev/rdisk/c0t5d0s2: device reset
sccli: /dev/rdisk/c0t5d0s2: device is ready

```

## download ses-firmware (reserved for future use)

Downloads firmware into the SES microprocessor in a Fibre Channel array enclosure.

```
# sccli device download ses-firmware filename
```

## help

Displays a short synopsis of available commands.

```
# sccli help
```

## inquiry

Displays SCSI INQUIRY data returned by the array controller. (Shortcut for show inquiry-data).

```
# sccli device inquiry
```

```
# sccli /dev/rdisk/c0t5d0s2 inquiry  
Vendor: SUN  
Product: StorEdge 3310  
Revision: 0325  
Vendor-specific S/N: 5E034B32-00  
Peripheral Device Type: 0  
Removable Media: no  
Page 80 Serial Number: 00028E5E034B3200  
Page 83 Logical Unit Device ID: 600C0FF000000000000028E5E034B3200
```

## reset



---

**Caution** – All reset commands are potentially dangerous. Use only as instructed.

---



---

**Caution** – All reset commands cause the array to stop responding to I/O requests from the host for a period of time. This might result in data loss unless all I/O activity is suspended by halting all applications that are accessing the array, and unmounting any file systems that are mounted from the array. In redundant-controller configurations, these commands affect all LUNs on both controllers. After running a reset command, to stay in prompt mode, run the `select` command to reselect the device.

---

## reset controller

Resets the controller. This temporarily causes the array to go offline, which might affect applications running on any hosts connected to the array. Also see `shutdown controller`.

```
# sccli device reset controller
```

```
# sccli /dev/rdisk/c0t5d0s2 reset controller
WARNING: This is a potentially dangerous operation. The controller
will go offline for several minutes. Data loss may occur if the
controller is currently in use.
Are you sure? y
sccli: resetting controller...
sccli: controller has been reset
sccli: /dev/rdisk/c0t5d0s2: waiting for device to be ready
sccli: /dev/rdisk/c0t5d0s2: device reset
sccli: /dev/rdisk/c0t5d0s2: device is ready
```

## reset nvram

Clears the NVRAM configuration memory and restores factory defaults. After issuing this command, reset the controller and reconfigure the controller to restore any non-default configuration options.



---

**Caution** – Logical devices are not deleted, but it is possible for them to become inaccessible after this command is run. This might result in data loss.

---

```
# sccli device reset nvram
```

```
# sccli /dev/rdisk/c0t5d0s2 reset nvram  
WARNING: The configuration of the RAID controller will be erased.  
Factory default parameters will take effect at next controller  
reset. Logical devices may not be accessible until mappings are  
reconfigured.  
Are you sure? y  
sccli>
```

## select

Select a new device to which subsequent commands are issued. If no device is specified, and more than one choice exists, a menu of choices is displayed.

```
sccli> select device
```

```
sccli> select /dev/rdisk/c0t5d0s2  
sccli: selecting /dev/rdisk/c0t5d0s2 [SUN StorEdge 3310 00028E]
```

## show events

Displays the contents of the array's event log.

```
# sccli device show events
```

```
# sccli /dev/rdisk/c0t5d0s2 show events
```

```
Tue Jul 30 16:04:45 2002
```

```
[0181] #1: StorEdge Array SN#600001 Controller NOTICE: controller  
initialization completed
```

```
Tue Jul 30 16:04:24 2002
```

```
[0181] #2: StorEdge Array SN#600001 Controller NOTICE: controller  
initialization completed
```

## show inquiry-data

Displays the SCSI INQUIRY data returned by the array controller.

```
# sccli device show inquiry-data
```

```
# sccli /dev/rdisk/c0t5d0s2 show inquiry-data
```

```
Vendor: SUN
```

```
Product: StorEdge 3310
```

```
Revision: 0325
```

```
Vendor-specific S/N: 5E034B32-00
```

```
Peripheral Device Type: 0
```

```
Removable Media: no
```

```
Page 80 Serial Number: 00028E5E034B3200
```

```
Page 83 Logical Unit Device ID: 600C0FF000000000000028E5E034B3200
```



## show ip-address

Displays the IP address of the array controller.

---

**Note** – Before running this command, make sure the network parameters on the controller are set.

---

```
# sccli device show ip-address
```

```
# sccli device show ip-address
206.6.182.71
```

## shutdown controller

Shuts down the RAID controller and stops I/O processing. This temporarily causes the array to go offline, which might affect applications running on any hosts connected to the array. Data in the controller cache is flashed to logical drives. After issuing this command, issue the `reset controller` command.



---

**Caution** – The shutdown command causes the array to stop responding to I/O requests from the host for a period of time. This might result in data loss unless all I/O activity is suspended by halting all applications that are accessing the array, and unmounting any file systems that are mounted from the array. In redundant-controller configurations, these commands affect all LUNs on both controllers.

---

```
# sccli device shutdown controller
```

```
# sccli /dev/rdisk/c0t5d0s2 shutdown controller
WARNING: This is a potentially dangerous operation. The controller
will go offline for several minutes. Data loss may occur if the
controller is currently in use.
Are you sure? y
sccli: shutting down controller...
sccli: controller is shut down
```

## quit

Exits the interactive mode.

```
sccli> quit
```

## version

Displays the version number of the CLI.

```
# sccli version
```

```
# sccli version  
version 1.0.23
```

## Error and Status Messages

---

This appendix contains a list of CLI error messages.

**TABLE A-1** Error and Status Messages

---

**Error and Status Messages**

---

a firmware filename is required  
a primary controller device must be selected  
aborted command  
AC line failure condition ended  
AC line failure detected  
add scsi drive operation failed  
adding SCSI drive completed  
adding SCSI drive operation paused  
ALERT  
assume a “no” response to any prompts  
assume a “yes” response to any prompts  
At least one SAFTE module is missing; package revision will not be updated  
bad block encountered  
bad SAFTE package firmware found, download aborted  
battery failure condition ended  
battery failure detected  
block reassignment failed  
block successfully reassigned  
cannot open device

---

**TABLE A-1** Error and Status Messages (*Continued*)

---

**Error and Status Messages**

---

cannot retrieve events from secondary controller  
clear the event log  
clone failed  
clone operation completed  
command returned bad value  
condition no longer critical  
continue adding SCSI drive operation  
controller firmware download failed  
controller firmware downloaded OK, but reset failed  
controller firmware downloaded successfully, but reset failed  
controller initialization completed  
controller is shut down and ready for disk firmware download  
controller is shut down and ready for SAFTE firmware download  
controller is shut down and ready for SES firmware download  
controller reset  
controller reset failed  
cooling fan Failure Detected  
cooling fan high speed threshold detected  
cooling fan high threshold detected  
cooling fan is no longer in critical state  
cooling fan is now operational  
cooling fan is OK  
cooling fan low speed threshold detected  
cooling fan low speed threshold exceeded  
cooling fan not installed  
cooling fan not installed or failure detected  
cooling fan not present or failure detected  
cooling fan now above low speed threshold  
cooling fan now below high speed threshold  
cooling fan state changed to critical

---

**TABLE A-1** Error and Status Messages (*Continued*)

---

**Error and Status Messages**

---

cooling fan state no longer critical  
CRITICAL  
current sensor failure detected  
current sensor is OK  
current sensor low threshold critical ended  
current sensor low threshold detected  
current sensor low threshold exceeded  
current sensor no longer critical  
current sensor not present or failure detected  
current sensor state changed to critical  
current sensor state is no longer critical  
Data loss may occur if the controller is currently in use  
data overrun/underrun detected  
DC line failure condition ended  
DC line failure detected  
device reset  
disk drive product id string required  
Disk firmware download done  
Disk firmware download failed  
disk firmware download failed on logical drive channel  
disk firmware download OK on logical drive channel  
Display info for array disks.  
Display SCSI INQUIRY data for selected device  
Displays the controller event log.  
Displays the controller's IP network address  
Door is now locked  
Door is unlocked  
door state change notification  
door state changed to critical  
download completed

---

**TABLE A-1** Error and Status Messages *(Continued)*

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**Error and Status Messages**

---

download disk drive firmware to internal drives  
download enclosure SES firmware  
download failed  
download RAID controller firmware (optionally w/ hard reset)  
Download Status Report  
download: one ore more modules failed  
Downloading boot record  
Downloading controller firmware  
downloading SAFTE firmware package failed  
Downloading SAFTE firmware package to SAFTE targets  
downloading SAFTE module  
DRAM parity error detected  
drive hardware error  
elevated temperature alert  
elevated temperature now back to normal level  
EMU ENVIRONMENTALS  
EMU LED CONTROLLER  
engaging controller firmware failed  
Engaging firmware  
expansion failed  
expansion of logical drive completed  
Factory default parameters will take effect at next controller reset  
failed on posting data to controller  
failed on sending data to controller  
failed to download Safte HC11 firmware  
failed to free controller resource  
failed to free resource on controller  
failed to get configuration  
failed to get network parameters  
failed to get response

---

**TABLE A-1** Error and Status Messages (*Continued*)

---

**Error and Status Messages**

---

failed to issue command  
failed to issue write buffer command  
failed to post data to controller  
failed to send data to controller  
FAILURE  
failure detected  
fan failure detected  
fan not present  
fan now online  
fan sensor  
fibre channel loop connection failure detected  
fibre channel loop connection restored  
file name too long; max length is:  
firmware filename required  
Flashing firmware data, please wait  
general failure condition ended  
general failure detected  
gross error on scsi bus detected  
high speed  
high speed condition no longer critical  
high speed threshold exceeded  
high temperature threshold exceeded  
high voltage  
illegal option  
initialization failed  
initialization of logical drive completed  
invalid debug option  
invalid event number range  
invalid input: please enter a number between 1 and  
invalid or ambiguous command

---

**TABLE A-1** Error and Status Messages (*Continued*)

---

**Error and Status Messages**

---

invalid or ambiguous subcommand

invalid status/sense data received

invalid subcommand

Logical devices may not be accessible until mappings are reconfigured

low speed

low speed condition is no longer critical

low speed threshold exceeded

low temperature threshold exceeded

low voltage

memory is not sufficient to fully support current configuration

memory is now sufficient to fully support current configuration

missing argument

negotiation error detected

no disk found to match disk model specified

no event found

no manageable devices found

no matching commands found

no module firmware found in SAFTE package, download aborted

no SAFTE device found

no SES device found

no valid device selected

not present or failure detected

Not Valid

NOTICE

now back to non-critical level

NVRAM factory defaults restored

option doesn't take an argument

option requires an argument

Page 80 Serial Number

Page 83 Logical Unit Device ID

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**TABLE A-1** Error and Status Messages (*Continued*)

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**Error and Status Messages**

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Page 83 Target Device ID

parity error detected

parity regeneration failed

parity regeneration of logical drive completed

Peripheral Device Type

Please enter "yes" or "no"

Please manually reset controller

please reset controller manually!

power supply AC failure detected

power supply AC is OK

POWER SUPPLY CTRL

power supply DC failure condition ended

power supply DC failure detected

power supply DC is OK

power supply failure detected

power supply high voltage condition is no longer critical

power supply high voltage threshold exceeded

Power Supply is AC OK

power supply is no longer critical

power supply is OK

power supply low voltage threshold exceeded

power supply no longer critical

power supply state changed to critical

power supply state is no longer critical

power supply unstable

power supply voltage is OK

power supply voltage now within acceptable limits

predictable failure detected

product id string too long

Programming flash memory

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**TABLE A-1** Error and Status Messages (*Continued*)

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**Error and Status Messages**

---

rebuild failed

rebuild of logical drive completed

redundant controller failover detected

Redundant controllers will fail over instead of going offline

redundant loop connection error detected

redundant loop failure detected

redundant path expected but not found

redundant path failure detected

redundant path restored

re-select timeout

Reset failed--Please manually reset controller!

reset nvram failed

reset the array controller

reset the event log

Resetting controller

restore nvram to factory defaults

SAFTE Firmware downloaded successfully!

SAFTE firmware package download failed

SAF-TE firmware package download succeeded

SAFTE HC11 module firmware download OK on logical drive channel

SAFTE package revision on target is not valid

scan SCSI drive successful

SCSI bus device reset

SCSI bus reset issued

SCSI channel failure

scsi command failed

SCSI drive failure

SCSI parity/CRC error detected

Sending disk firmware data

SES firmware download OK!

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**TABLE A-1** Error and Status Messages (*Continued*)

---

**Error and Status Messages**

---

SES firmware download succeeded!  
shutting down controller...  
some operations on SAFTE firmware download failed  
Some operations on SES Firmware download failed  
specified device not found or not valid  
specify a filename for the device to be managed  
starting add SCSI drive operation  
starting clone operation  
starting logical drive expansion  
starting logical drive rebuild  
starting parity regeneration  
starting to send disk firmware data  
starting to send SES firmware data  
state change to critical  
superuser privileges required  
syntax error  
temperature no longer below low threshold  
temperature sensor failure detected  
temperature sensor high temperature threshold exceeded  
temperature sensor is no longer critical  
temperature sensor is OK  
temperature sensor low temperature threshold exceeded  
temperature sensor low threshold detected  
temperature sensor low threshold no longer critical  
temperature sensor no longer critical  
temperature sensor not installed or failure detected  
temperature sensor now below high threshold  
temperature sensor now online  
temperature sensor state changed is no longer critical  
temperature sensor state changed to critical

---

**TABLE A-1** Error and Status Messages (*Continued*)

---

**Error and Status Messages**

---

The controller will go offline for several minutes  
this command requires a subcommand  
this command requires an additional keyword  
threshold exceeded  
threshold status back to normal  
threshold status critical  
timeout waiting for io to complete  
Type "%s help" for valid commands.  
unexpected disconnection encountered  
unexpected drive not ready  
unexpected select timeout  
unexpected sense received  
unit attention received  
updating SAFTE firmware package rev for target denied  
voltage now within acceptable limits  
Voltage Sensor %d low threshold Critical Ended  
Voltage Sensor %d low threshold Detected  
voltage sensor failure detected  
voltage sensor high voltage threshold exceeded  
voltage sensor high voltage threshold no longer critical  
voltage sensor is OK  
voltage sensor low voltage threshold detected  
voltage sensor low voltage threshold exceeded  
voltage sensor no longer critical  
voltage sensor not present or failure detected  
voltage sensor now within acceptable limits  
voltage sensor state changed to critical  
voltage sensor state no longer critical

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**TABLE A-1** Error and Status Messages *(Continued)*

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**Error and Status Messages**

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WARNING

WARNING: The configuration of the RAID controller will be erased

WARNING: This is a potentially dangerous operation

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