



Sun StorEdge™ Target Emulation 1.2 Release Notes

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Part No. 806-5527-10
May 2000, [Revision A](#)

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Chapter Single Template

Introduction

These Release Notes describe product considerations for the Sun StorEdge™ Target Emulation (STE) 1.2 software. STE is SCSI target emulation software (the STE driver plus one or more target mode drivers) over a Fibre Channel.

Contents

This document contains the following information:

- Introduction
- Typographic Conventions
- Related Documentation
- Qualified Platforms
- Product Considerations
- Open Bugs

Typographic Conventions

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. % You have mail.
AaBbCc123	What you type, when contrasted with on-screen computer output	% su 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.
	Command-line variable; replace with a real name or value	To delete a file, type <code>rm filename</code> .

Related Documentation

Application	Title	Part Number
man pages	<code>steadm(1M)</code> <code>steconf(1M)</code> <code>stxprint(1M)</code> <code>ste.cf(4)</code> <code>sftm(7D)</code> <code>ste(7D)</code>	N/A
Hardware Installation	<i>Sun StorEdge SBus FC-100 Host Adapter Installation and Service Manual</i>	802-7572

Qualified Platforms

Note – This release supports the target servers indicated below. PCI-based target servers are not supported.

TABLE 1 Target Configuration

Target Server	Fibre Channel Host Adapter	Storage System
Sun Enterprise™ Server models ES3500, ES4x00 to ES6x00, ES10000	SBus - P/N 501-3060	Any storage system supported by Sun

TABLE 2 Initiator Configuration

Qualified Initiators	Fibre Channel Host Adapter
Sun Enterprise PCI-based servers	PCI - P/N 375-0040

Product Considerations

SOC+ Fibre Channel Host Adapter

You may not use the SOC+ Fibre Channel Host Adapter in dual mode. That is, you cannot configure one port for Target Mode and use the other port of the same SOC+ card for an initiator.

Partition Usage

- The Solaris operating environment reserves space for header information at the beginning of each disk. You may not write to this space.
- Configure Fibre Channel Ports with a LUN 0.

- STE does not support presenting the same back-end partition on multiple LUNs on the same Fibre Channel Port. You may, however, present the same partition on multiple ports, as shown below.

```
# Virtual Disks
vdisk1 /dev/rdsk/c2t17d0s1 tm0 1 online
vdisk5 /dev/rdsk/c2t17d0s1 tm1 1 online ro
```

Serviceability of a System Panic

In the unlikely event of a system panic, the Sun Storage Cache Management software (SUNWscm) will capture the panic dump and Storage library information. The capture is enabled by default so that if a failure caused by software or hardware does occur, it can be diagnosed on the first incident.

The information is captured by the `/etc/init.d/issdump` script for use by Sun Enterprise Services. (`/etc/init.d/issdump` is linked to `/etc/rc2.d/S19issdump`.)

When installing SUNWscm, make sure your dump partition (normally the primary swap partition) is large enough to dump all configured memory on your server. You also must ensure that the `/var/crash` directory has enough free space to hold a crash dump file.

Running STE with Instant Image

STE and SV cannot share the same volume. If you are using Instant Image and you have a volume that you want under STE control, remove the volume from SV control, add the volume to the `ste.cf` file, then restart Instant Image.

Restrictions

- STE does not support Veritas Dynamic Multipathing or Alternate Pathing
- STE 1.2 is not supported in a clustered environment

Reconfiguration Requirement

If you reconfigure any hardware, reconfigure the `ste.cf` file as well.

Open Bugs

4216804, 4216809

STE and Veritas Volume Manager 2.6

Veritas Dynamic Multipathing (DMP) does not support STE disks.

Workaround: In order to manage STE disks using Veritas Volume Manager on the initiator, you must disable the Veritas DMP:

1. **Unmount all file systems created on Volume Manager volumes.**

```
# umount
```

2. **Stop the Volume Manager.**

```
# vxdctl stop
```

3. **Remove the vxdmp driver from the /kernel/drv directory.**

```
# rm /kernel/drv/vxdmp
```

4. **Edit the /etc/system file and remove the following line:**

```
forceload: drv/vxdmp
```

5. **Remove the Volume Manager DMP files.**

```
# rm -rf /dev/vx/dmp /dev/vx/rdmp
```

6. **Symbolically link /dev/vx/dmp to /dev/dsk.**

```
# ln -s /dev/dsk /dev/vx/dmp
```

7. Symbolically link /dev/vx/rdmp to /dev/rdsk.

```
# ln -s /dev/rdsk /dev/vx/rdmp
```

8. Reboot the system to disable the DMP functionality.

```
# /usr/sbin/shutdown -i6
```