



Release Notes for Sun™ Storage 6580 and 6780 Arrays

for Sun StorageTek™ Common Array Manager 6.4

Sun Microsystems, Inc.
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Release Notes for Sun Storage 6580 and 6780 Arrays

This document contains important release information about the Sun Storage 6580 and 6780 Arrays running Sun StorageTek Common Array Manager (CAM), Release 6.4. Read this document so that you are aware of issues or requirements that can affect the installation and operation of the arrays.

The release notes consist of the following sections:

- “New Features” on page 2
- “System Requirements” on page 2
- “Known Issues” on page 15
- “Product Documentation” on page 18
- “Service Contact Information” on page 20
- “Third-Party Web Sites” on page 20

For Information About CAM

See the Sun StorageTek Common Array Manager software documentation for the CAM 6.4 release at:

<http://docs.sun.com/app/docs/prod/stor.arrmgr>

For Related Patch Information

Look for the latest patches pertaining to your environment at:

<http://sunsolve.sun.com/show.do?target=patchpage>

- 1. In the Search box in the masthead, enter 6580 or 6780.**
- 2. Filter Results By: Downloads > Patches.**

A listing of available patches related to the array are listed.

New Features

The release of 7.50.xx.xx controller firmware for Sun Storage 6x80 arrays adds these new features:

- Support for Sun CSM100 expansion trays
- Maximum of 448 drives (28 expansion trays with up to 16 drives each) with CSM200 expansion trays for 6780
- 8-Gbit FC host ports
- Intermixing of 4-Gbit/second host ports and 8-Gbit/second host ports for 6780

The Sun Storage 6580 and 6780 Arrays are compared in [TABLE 1](#).

TABLE 1 Comparison of Sun Storage 6580 and 6780 Array Configurations

	6580	6780
Total cache size per array	8 or 16 Gbytes	8 or 16 Gbytes
Number of host ports	8 4-Gbit/second or 8 G-bit/second	8 or 16 4-Gbit/second or 8-Gbit/second
Host interface cards	2	2 or 4
Maximum number of drives supported	256	448
Disk reads	IOPS* 115K Throughput 3000 MB/second	IOPS* 175K Throughput 6400 MB/second
Maximum array configuration	1x16	1x28
Maximum raw capacity	256 Tbytes	448 Tbytes

* Input/output operations per second

System Requirements

The software and hardware products that have been tested and qualified to work with the Sun Storage 6580 and 6780 Arrays are described in the following sections. You must have Sun StorageTek Common Array Manager, v6.4 (or later) software.

- [“Firmware Requirements” on page 3](#)
- [“Disk Drives and Tray Capacity” on page 3](#)
- [“Data Host Requirements” on page 4](#)

Firmware Requirements

The minimum firmware required for Sun Storage 6580 and 6780 Arrays features described in this release note is version 07.50.08.1x. This firmware version (or higher) is installed on the array controllers prior to shipment and is also delivered with Sun StorageTek Common Array Manager (CAM) v, 6.4.

To download the latest controller firmware, go to:

http://www.sun.com/storage/management_software/resource_management/cam

Click the “Get It” tab to download the latest CAM software.

Disk Drives and Tray Capacity

TABLE 2 lists the size, speed, and tray capacity for the supported FC and SATA disk drives for Sun Storage 6580 and 6780 Arrays.

TABLE 2 Supported Disk Drives

Drive	Description
FC 146G15K	146-Gbyte 15,000-RPM FC drives (4 Gbits/sec); 2336 Gbytes per tray
FC 300G15K	300-Gbyte 15,000-RPM FC drives (4 Gbits/sec); 4800 Gbytes per tray
FC 400G10K	400-Gbyte 10,000-RPM FC drives (4 Gbits/sec); 6400 Gbytes per tray
FC 450G15K	450-Gbyte 15,000-RPM FC drives (4 Gbits/sec); 7200 Gbytes per tray
SATA 2, 500G7.2K	500-Gbyte 7,200-RPM SATA drives (3 Gbits/sec); 8000 Gbytes per tray
SATA 2, 750G7.2K	750-Gbyte 7,200-RPM SATA drives (3 Gbits/sec); 12000 Gbytes per tray
SATA 2, 1T7.2K	1-Tbyte 7,200-RPM SATA drives (3 Gbits/sec); 16000 Gbytes per tray

Additional legacy drives might also be supported with this product.

Data Host Requirements

This section describes supported data host software, HBAs, and switches.

- [“Multipathing Software” on page 4](#)
- [“Supported Host Bus Adaptors \(HBAs\)” on page 6](#)
- [“Supported Enterprise Software” on page 14](#)
- [“Supported FC and Multilayer Switches” on page 15](#)

Multipathing Software

This section provides a summary of the data host requirements for the Sun Storage 6580 and 6780 Arrays. It lists the current multipathing software and supported host bus adapters (HBAs) by operating system.

You must install multipathing software on each data host that communicates with Sun Storage 6580 and 6780 Arrays.

For Solaris OS 8 and 9 data hosts, the multipathing software is part of the Sun StorageTek SAN Foundation software. For data hosts running the Solaris OS, follow the instructions in the *Hardware Installation Guide for Sun Storage 6580 and 6780 Arrays* to download and install the software from the Sun Download Center.

Solaris OS 10 includes the multipathing software.

[TABLE 3](#) lists supported multipathing software by operating system.

TABLE 3 Multipathing Software

OS	Multipathing Software	Minimum Version	Latest Version	Host Type Setting	Notes
Solaris 8/9 SPARC	STMS/MPxIO	SFK 4.4.13	SFK 4.4.13 4.4.14 (Solaris 9)	Solaris with MPxIO	
Solaris 10	STMS/MPxIO	Update 6 or Update 5 with patch 137137-09 (SPARC), 137138- 09 (x64/x86)	Kernel Jumbo Patch (KJP)	Solaris with MPxIO	
Solaris 8,9,10 with DMP	Symantec Veritas Dynamic Multi- Pathing (DMP)	5.0	5.0MP3	Solaris with DMP	
Windows 2003 Non-clustered	MPIO	01.03.0302.0013	01.03.0302.0110 (MPIO)	Windows 2000/2003 Non-clustered	

TABLE 3 Multipathing Software (Continued)

OS	Multipathing Software	Minimum Version	Latest Version	Host Type Setting	Notes
Windows MSCS Cluster	MPIO	01.03.0302.0013	01.03.0302.0110 (MPIO)	Windows 2000/Server 2003 Clustered	You must use MPIO for 7.10 and above
Windows 2000/2003 Non-clustered with DMP	DMP	5.0	5.1	Windows 2000/Server 2003 Non-clustered (with Veritas DMP)	Pending vendor qualification, see Symantec's HCL
Windows 2003 Clustered with DMP	DMP	5.0	5.1	Windows Server 2003 clustered (with Veritas DMP)	Pending vendor qualification, see Symantec's HCL
Windows 2008	MPIO	01.03.0302.0013	01.03.0302.0013	Windows 2000/Server 2003	
AIX 5.2, 5.3	SUNdac Plugin	5.2.0.16	5.2.0.16	AIX	
AIX 5.3, 6.1 with DMP	DMP	5.0	5.0MP3	AIX with DMP	Pending vendor qualification, see Symantec's HCL
Red Hat 4 SuSE 9/SuSE 10	RDAC/MPP	09.03.0B02.0013	09.03.0B02.0042	Linux	
Red Hat 5 SuSE 10 SP1	RDAC/MPP	09.03.0C02.0013	09.03.0C02.0042	Linux	
Red Hat SuSE with DMP	DMP	5.0MP3	5.0MP3	Linux with DMP	Pending vendor qualification, see Symantec's HCL
HPUX	Veritas DMP	5.0MP1	5.0MP1	HP-UX	Pending vendor qualification, see Symantec's HCL

Note – The multipathing driver for the IBM AIX platform is Veritas DMP, bundled in Veritas Storage Foundation 5.0 for Sun Storage 6580 and 6780 Arrays. Download the Array Support Library (ASL) from <http://support.veritas.com/>.

Supported Host Bus Adaptors (HBAs)

TABLE 4, TABLE 5, and TABLE 6 lists supported HBAs and other data host platform elements by operating system.

HBAs must be ordered separately from Sun or its respective manufacturers. Sun HBAs can be ordered from:

[/www.sun.com/storageetek/storage_networking/hba/](http://www.sun.com/storageetek/storage_networking/hba/)

You can download HBA drivers and other host software from the Sun Download Center at:

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

Download operating system updates from the web site of the operating system company.

You must install the multipathing software before you install any OS patches.

TABLE 4 Supported HBAs for Solaris Data Host Platforms

Operating System	Minimum OS Patches	Sun 2-Gbit HBAs	Sun 4-Gbit HBAs	Sun 8-Gb HBAs
Solaris 8	108974-49 or higher	SG-XPCI1FC-QL2 (6767A) SG-XPCI2FC-QF2 (6768A) SG-XPCI2FC-QF2-Z (6768A)	SG-XPCI2FC-QF4 SG-XPCI1FC-QF4 SG-XPCI2FC-QF4 SG-XPCI1FC-EM4 SG-XPCI2FC-EM4	N/A

TABLE 4 Supported HBAs for Solaris Data Host Platforms (Continued)

Operating System	Minimum OS Patches	Sun 2-Gbit HBAs	Sun 4-Gbit HBAs	Sun 8-Gb HBAs
Solaris 9	113277-44 or higher	SG-XPCI1FC-QL2 (6767A) SG-XPCI2FC-QF2-Z (6768A) SG-XPCI1FC-EM2 SG-XPCI2FC-EM2	SG-XPCI1FC-QF4 SG-XPCI2FC-QF4 SG-XPCI2FC-EM4-Z SG-XPCI1FC-EM4-Z	N/A
Solaris 10 SPARC	Update 6 or Update 5 with patch 137137- 09	SG-XPCI1FC-QL2 (6767A) SG-XPCI2FC-QF2-Z (6768A) SG-XPCI1FC-EM2 SG-XPCI2FC-EM2	SG-XPCIE1FC-QF4 SG-XPCIE2FC-QF4 SG-XPCIE1FC-EM4 SG-XPCIE2FC-EM4 SG-XPCI1FC-QF4 SG-XPCI2FC-QF4 SG-XPCI1FC-EM4 SG-XPCI2FC-EM4 SG-XPCIE2FCGBE-Q-Z SG-XPCIE2FCGBE-E-Z	SG-XPCIE1FC-QF8-Z SG-XPCIE2FC-QF8-Z SG-XPCIE1FC-EM8-Z SG-XPCIE2FC-EM8-Z
Solaris 10 x64/x86	Update 6 or Update 5 with patch 137138- 09	SG-XPCI1FC-QL2 (6767A) SG-XPCI2FC-QF2-Z (6768A) SG-XPCI1FC-EM2 SG-XPCI2FC-EM2	SG-XPCIE1FC-QF4 SG-XPCIE2FC-QF4 SG-XPCIE1FC-EM4 SG-XPCIE2FC-EM4 SG-XPCI1FC-QF4 SG-XPCI2FC-QF4 SG-XPCI1FC-EM4 SG-XPCI2FC-EM4 SG-XPCIE2FCGBE-Q-Z SG-XPCIE2FCGBE-E-Z	SG-XPCIE1FC-QF8-Z SG-XPCIE2FC-QF8-Z SG-XPCIE1FC-EM8-Z SG-XPCIE2FC-EM8-Z

TABLE 5 Supported HBAs for Microsoft Windows Data Host Platforms

Host OS / Servers	HBAs	Sun 2-Gb HBAs	Sun 4-Gb HBAs	Sun 8-Gb HBAs
Microsoft Windows 2008 Server 32-bit / x86 (IA32) 64-bit / x64 (AMD) EM64T IA64	QLogic QLE 256x	SG-XPCI1FC-EM2	SG-XPCIE1FC-QF4	SG-XPCIE1FC-QF8-Z
	QLogic QLE 246x	SG-XPCI2FC-EM2	SG-XPCIE2FC-QF4	SG-XPCIE2FC-QF8-Z
	QLogic QLA 246x	SG-XPCI1FC-QL2	SG-XPCIE1FC-EM4	SG-XPCIE1FC-EM8-Z
	QLogic QLA 234x	SG-XPCI2FC-QF2-Z	SG-XPCIE2FC-EM4	SG-XPCIE2FC-EM8-Z
	QLogic QLA 2310F		SG-XPCI1FC-QF4	
	Emulex LPe12000/12002		SG-XPCI2FC-QF4	
	Emulex		SG-XPCI1FC-EM4	
	Lpe11000/LPe11002/LPe1150		SG-XPCI2FC-EM4	
	Emulex		SG-XPCIE2FCGBE-Q-Z	
	LP11000/LP11002/LP1150		SG-XPCIE2FCGBE-E-Z	
	Emulex LP9802/9802DC/982			
	Emulex			
	LP952/LP9002/LP9002DC			
	Emulex			
	10000/10000DC/LP1050			
Microsoft Windows 2003 32-bit with SP1 R2 / x86 (IA32)	QLogic QLE 256x	SG-XPCI1FC-EM2	SG-XPCIE1FC-QF4	SG-XPCIE1FC-QF8-Z
	QLogic QLE 246x	SG-XPCI2FC-EM2	SG-XPCIE2FC-QF4	SG-XPCIE2FC-QF8-Z
	QLogic QLA 246x	SG-XPCI1FC-QL2	SG-XPCIE1FC-EM4	SG-XPCIE1FC-EM8-Z
	QLogic QLA 234x	SG-XPCI2FC-QF2-Z	SG-XPCIE2FC-EM4	SG-XPCIE2FC-EM8-Z
	QLogic QLA 2310F		SG-XPCI1FC-QF4	
	Emulex LPe12000/12002		SG-XPCI2FC-QF4	
	Emulex		SG-XPCI1FC-EM4	
	Lpe11000/LPe11002/LPe1150		SG-XPCI2FC-EM4	
	Emulex		SG-XPCIE2FCGBE-Q-Z	
	LP11000/LP11002/LP1150		SG-XPCIE2FCGBE-E-Z	
	Emulex LP9802/9802DC/982			
	Emulex			
	LP952/LP9002/LP9002DC			
	Emulex			
	10000/10000DC/LP1050			

TABLE 5 Supported HBAs for Microsoft Windows Data Host Platforms (Continued)

Host OS / Servers	HBAs	Sun 2-Gb HBAs	Sun 4-Gb HBAs	Sun 8-Gb HBAs
Microsoft Windows 2003 64-bit with SP1 R2 / x64 (AMD) EM64T IA64	QLogic QLE 256x	SG-XPCI1FC-EM2	SG-XPCIE1FC-QF4	SG-XPCIE1FC-QF8-Z
	QLogic QLE 246x	SG-XPCI2FC-EM2	SG-XPCIE2FC-QF4	SG-XPCIE2FC-QF8-Z
	QLogic QLA 246x	SG-XPCI1FC-QL2	SG-XPCIE1FC-EM4	SG-XPCIE1FC-EM8-Z
	QLogic QLA 234x	SG-XPCI2FC-QF2-Z	SG-XPCIE2FC-EM4	SG-XPCIE2FC-EM8-Z
	QLogic QLA 2310F		SG-XPCI1FC-QF4	
	Emulex LPe12000/12002		SG-XPCI2FC-QF4	
	Emulex Lpe11000/LPe11002/LPe1150		SG-XPCI1FC-EM4	
	Emulex LP11000/LP11002/LP1150		SG-XPCI2FC-EM4	
	Emulex LP9802/9802DC/982		SG-XPCIE2FCGBE-Q-Z	
	Emulex LP952/LP9002/LP9002DC		SG-XPCIE2FCGBE-E-Z	
	Emulex 10000/10000DC/LP1050			

TABLE 6 Supported HBAs for Linux Data Host Platforms

Host OS / Sun Servers	HBAs	Sun 2-Gb HBAs	Sun 4-Gb HBAs	Sun 8-Gb HBAs
Linux SuSE 10 SP2	QLogic QLE 256x	SG-XPCI1FC-EM2	SG-XPCIE1FC-QF4	SG-XPCIE1FC-QF8-Z
	QLogic QLE246x	SG-XPCI2FC-EM2	SG-XPCIE2FC-QF4	SG-XPCIE2FC-QF8-Z
	QLogic QLA 246x	SG-XPCI1FC-QL2	SG-XPCIE1FC-EM4	SG-XPCIE1FC-EM8-Z
	QLogic QLA 234x	SG-XPCI2FC-QF2-Z	SG-XPCIE2FC-EM4	SG-XPCIE2FC-EM8-Z
	QLogic QLA 2310F		SG-XPCI1FC-QF4	
	Emulex LP982/LP9802/9802DC		SG-XPCI2FC-QF4	
	Emulex LP9002/LP9002DC/LP952		SG-XPCI1FC-EM4	
	Emulex LP10000/10000DC/LP1050		SG-XPCI2FC-EM4	
	Emulex LP11000/LP11002/LP1150		SG-XPCIE2FCGBE-Q-Z	
	Emulex Lpe11000/LPe11002/LPe1150		SG-XPCIE2FCGBE-E-Z	

TABLE 6 Supported HBAs for Linux Data Host Platforms (Continued)

Host OS / Sun Servers	HBAs	Sun 2-Gb HBAs	Sun 4-Gb HBAs	Sun 8-Gb HBAs
Linux	QLogic QLE 256x	SG-XPCI1FC-EM2	SG-XPCIE1FC-QF4	SG-XPCIE1FC-QF8-Z
SuSE 9.0 - IA 32, 2.6 kernel / x64	QLogic QLE246x	SG-XPCI2FC-EM2	SG-XPCIE2FC-QF4	SG-XPCIE2FC-QF8-Z
	QLogic QLA 246x	SG-XPCI1FC-QL2	SG-XPCIE1FC-EM4	SG-XPCIE1FC-EM8-Z
	QLogic QLA 234x	SG-XPCI2FC-QF2-Z	SG-XPCIE2FC-EM4	SG-XPCIE2FC-EM8-Z
EM64T	QLogic QLA 2310F		SG-XPCI1FC-QF4	
x86 (IA32)	Emulex		SG-XPCI2FC-QF4	
IA64	LP982/LP9802/9802DC		SG-XPCI1FC-EM4	
	Emulex		SG-XPCI2FC-EM4	
	LP9002/LP9002DC/LP952		SG-XPCIE2FCGBE-Q-Z	
	Emulex		SG-XPCIE2FCGBE-E-Z	
	LP10000/10000DC/LP1050			
	Emulex			
	LP11000/LP11002/LP1150			
	Emulex			
	LPe11000/LPe11002/LPe1150			
Linux	QLogic QLE 256x	SG-XPCI1FC-EM2	SG-XPCIE1FC-QF4	SG-XPCIE1FC-QF8-Z
SuSE 8.0*, 2.4 kernel / x64	QLogic QLE246x	SG-XPCI2FC-EM2	SG-XPCIE2FC-QF4	SG-XPCIE2FC-QF8-Z
	QLogic QLA 246x	SG-XPCI1FC-QL2	SG-XPCIE1FC-EM4	SG-XPCIE1FC-EM8
	QLogic QLA 234x	SG-XPCI1FC-QF2	SG-XPCIE2FC-EM4	SG-XPCIE2FC-EM8
EM64T	QLogic QLA 2310F	SG-XPCI2FC-QF2-Z	SG-XPCI1FC-QF4	
x86 (IA32)	Emulex		SG-XPCI2FC-QF4	
IA64	LP982/LP9802/9802DC		SG-XPCI1FC-EM4	
	Emulex		SG-XPCI2FC-EM4	
	LP9002/LP9002DC/LP952		SG-XPCIE2FCGBE-Q-Z	
	Emulex			
	LP10000/10000DC/LP1050			
	Emulex			
	LP11000/LP11002/LP1150			
	Emulex			
	LPe11000/LPe11002/LPe1150			

TABLE 6 Supported HBAs for Linux Data Host Platforms (Continued)

Host OS / Sun Servers	HBAs	Sun 2-Gb HBAs	Sun 4-Gb HBAs	Sun 8-Gb HBAs
Red Hat 5 Update 1, 2 RHEL 5u1 RHEL 5u2	QLogic QLE 256x	SG-XPCI1FC-EM2	SG-XPCIE1FC-QF4	SG-XPCIE1FC-QF8-Z
	QLogic QLE 246x	SG-XPCI2FC-EM2	SG-XPCIE2FC-QF4	SG-XPCIE2FC-QF8-Z
	QLogic QLA 246x	SG-XPCI1FC-QL2	SG-XPCIE1FC-EM4	SG-XPCIE1FC-EM8-Z
	QLogic QLA 234x	SG-XPCI2FC-QF2-Z	SG-XPCIE2FC-EM4	SG-XPCIE2FC-EM8-Z
	QLogic QLA 2310F		SG-XPCI1FC-QF4	
	Emulex LP982/LP9802/9802DC		SG-XPCI2FC-QF4	
	Emulex LP9002/LP9002DC/LP952		SG-XPCI1FC-EM4-Z	
	Emulex LP10000/10000DC/LP1050		SG-XPCI2FC-EM4-Z	
	Emulex LPe11000/LPe11002/LPe1150		SG-XPCIE2FCGBE-Q-Z	
	Emulex LPe12000/LPe12002		SG-XPCIE2FCGBE-E-Z	
Red Hat 4 Update 6 RHEL 4u6	QLogic QLE 256x	SG-XPCI1FC-EM2	SG-XPCIE1FC-QF4	SG-XPCIE1FC-QF8-Z
	QLogic QLE 246x	SG-XPCI2FC-EM2	SG-XPCIE2FC-QF4	SG-XPCIE2FC-QF8-Z
	QLogic QLA 246x	SG-XPCI1FC-QL2	SG-XPCIE1FC-EM4	SG-XPCIE1FC-EM8-Z
	QLogic QLA 234x	SG-XPCI2FC-QF2-Z	SG-XPCIE2FC-EM4	SG-XPCIE2FC-EM8-Z
	QLogic QLA 2310F		SG-XPCI1FC-QF4	
	Emulex LP982/LP9802/9802DC		SG-XPCI2FC-QF4	
	Emulex LP9002/LP9002DC/LP952		SG-XPCI1FC-EM4-Z	
	Emulex LP10000/10000DC/LP1050		SG-XPCI2FC-EM4-Z	
	Emulex LPe11000/LPe11002/LPe1150		SG-XPCIE2FCGBE-Q-Z	
	Emulex LPe12000/LPe12002		SG-XPCIE2FCGBE-E-Z	

TABLE 6 Supported HBAs for Linux Data Host Platforms (Continued)

Host OS / Sun Servers	HBAs	Sun 2-Gb HBAs	Sun 4-Gb HBAs	Sun 8-Gb HBAs
Red Hat Linux 4.0 [†] , 2.6 kernel / x64 EM64T x86 (IA32) IA64	QLogic QLE 256x QLogic QLE 246x QLogic QLA 246x QLogic QLA 234x QLogic QLA 2310F Emulex LP982/LP9802/9802DC Emulex LP9002/LP9002DC/LP952 Emulex LP10000/10000DC/LP1050 Emulex Lpe11000/LPe11002/LPe1150 Emulex Lpe12000/LPe12002	SG-XPCI1FC-EM2 SG-XPCI2FC-EM2 SG-XPCI1FC-QL2 SG-XPCI2FC-QF2-Z	SG-XPCIE1FC-QF4 SG-XPCIE2FC-QF4 SG-XPCIE1FC-EM4 SG-XPCIE2FC-EM4 SG-XPCI1FC-QF4 SG-XPCI2FC-QF4 SG-XPCI1FC-EM4-Z SG-XPCI2FC-EM4-Z SG-XPCIE2FCGBE-Q-Z SG-XPCIE2FCGBE-E-Z	SG-XPCIE1FC-QF8-Z SG-XPCIE2FC-QF8-Z SG-XPCIE1FC-EM8-Z SG-XPCIE2FC-EM8-Z
Red Hat Linux 3.0, 2.4 kernel / x64 EM64T x86 (IA32) IA64	QLogic QLA 246x QLogic QLA 2342 QLogic QLA 2340 QLogic QLA 2310F Emulex LP982/LP9802/9802DC Emulex LP9002/LP9002DC/LP952 Emulex LP10000/10000DC/LP1050 LSI 44929 LSI 40919	SG-XPCI1FC-EM2 SG-XPCI2FC-EM2	SG-XPCIE1FC-QF4 SG-XPCIE2FC-QF4 SG-XPCIE1FC-EM4 SG-XPCIE2FC-EM4	N/A

* Oracle Real Application Clusters (RAC), SteelEye LifeKeeper Server Clustering

† SteelEye LifeKeeper Server Clustering

TABLE 7 Other Supported Data Host Platforms

Host OS	Host Servers	HBAs
Novell NetWare 6.0 (SP5)	x86 (IA32)	QLogic QLA 2342 QLogic QLA 2340 QLogic QLA 2310F
Novell NetWare 6.5 (SP7)	x86 (IA32)	QLogic QLA 2342 QLogic QLA 2340 QLogic QLA 2310F QLogic QLA 246x
Novell NetWare 6.5 (SP3)	x86 (IA32)	QLogic QLA 2342 QLogic QLA 2340 QLogic QLA 2310F QLogic QLA 246x
IRIX 6.5.26, 6.5.27, 6.5.28, 6.5.29	MIPS	QLogic QLA 2310
HP-UX 11.31	HP RISC	HP A6795A HP A6826A HP A6684A HP A6685A HP A5158A HP AB378A HP AB379A HP AD300A HP AD355A

TABLE 7 Other Supported Data Host Platforms (Continued)

HP-UX B11.11	HP RISC	HP A6795A HP A6826A HP A6684A HP A6685A HP A5158A
HP-UX B.11.23	HP RISC IA64	HP A6795A HP A6826A HP A9784A HP AB378A HP AB379A HP AD300A HP AD355A
IBM AIX 5.2, 5.3, 6.1	Power	IBM 5716 IBM 5758 IBM 5759 IBM 6228 IBM 6239

Supported Enterprise Software

The enterprise software applications listed in [TABLE 8](#) are compatible with the Solaris OS on the data host.

TABLE 8 Supported Enterprise Software

Software	Version
Legato NetWorker	7.3
Sun Cluster	3.0, 3.1
Sun StorageTek QFS software	4.0 minimum
Sun StorageTek SAM-FS software	4.0 minimum
Sun StorageTek Availability Suite	3.2 minimum
Sun StorageTek Enterprise Backup Software	7.3
Solstice DiskSuite	4.2.1 (in conjunction with the Solaris 8 OS)
Solaris Volume Manager	Embedded in the Solaris 9 and 10 OSs

TABLE 8 Supported Enterprise Software (Continued)

Software	Version
VERITAS Storage Foundation (VxVM/VxFS)	5.0
VERITAS Cluster Server (VCS)	5.0
VERITAS NetBackup	6.0 or higher

Supported FC and Multilayer Switches

The following FC fabric and multilayer switches are compatible for connecting data hosts and Sun Storage 6580 and 6780 Arrays:

- Sun StorEdge Network 2 Gb FC Switch - 8, 16, and 64
- Brocade SilkWorm 200E/300/4100/4900/5000/5100/5300/7500/48000/DCX
- Cisco 9124/9134/9216/9216i/9222i/9506/9509/9513
- McDATA 6140/i10K/QPM 4 Gb blade for 6140
- QLogic SANBox 5602/9000

Known Issues

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

- [“Installation and Hardware Related Issues” on page 15](#)

If a recommended workaround is available for a bug, it follows the bug description.

Installation and Hardware Related Issues

This section describes known issues and bugs related to installing and initially configuring Sun Storage 6580 and 6780 Arrays.

Setting the Tray Link Rate

When setting the tray link rate for an expansion tray, all expansion trays connected to the same drive channel must be set to operate at the same data transfer rate (speed).

For details about how to set the tray link rate, see “Setting the Tray Link Rate” in the *Hardware Installation Guide for Sun Storage 6580 and 6780 Arrays*.

Upgrading the Sun StorageTek 6540 Array

Bug CR 6783749 – When upgrading a Sun StorageTek 6540 array to a Sun Storage 6580 or 6780 Array, you cannot change the tray ID 85 to tray ID 99 using CAM.

Workaround – You can use controller tray ID 85 for array configurations up to a maximum of 256 drives.

Hardware Issues

This section describes general issues related to Sun Storage 6580 and 6780 Arrays hardware and firmware.

Replacing CRUs/FRUs in Less Than 15 Minutes



Caution – Without adequate ventilation and air circulation, the controller tray will overheat resulting in potential damage to all customer-replaceable units (CRUs) or field-replaceable units (FRUs). Do not allow any CRU/FRU slot to remain empty for an extended time. Replace the failed CRU/FRU within 15 minutes.

System Cabinet Doors Must Be Closed



Caution – The front and back doors of the system cabinet must be closed for compliance to domestic and international EMI regulations as well as proper equipment cooling. Do not block or cover the openings of the system cabinet. Cabinet airflow is from front to back. Allow at least 30 inches (76.2 cm) in front of the cabinet, and at least 24 (60.96 cm) inches behind the cabinet, for service clearance, proper ventilation, and heat dissipation.

Intermittent Power Supply Failure Notification

Bug 6760395 – CAM logEvent messages intermittently reports power supply failures and 12 seconds later changes to optimal. This is caused by devices not responding to polling.

Workaround – No workaround required. You can ignore the failure messages.

The `cfgadm -c unconfigure` Command Unconfigures UTM LUNs Only and Not Other Data LUNs (Solaris 10)

Bug 6362850 – The `cfgadm -c unconfigure` command unconfigures Universal Transport Mechanism (UTM) LUNs only and not other data LUNs. When this happens, you will not be able to unconfigure LUNs.

Workaround – Obtain Solaris 10 patch 118833-20 (SPARC) or patch 118855-16 (x86) to fix this issue.

Product Documentation

Related product documentation is available at the Sun documentation web site:

<http://docs.sun.com/app/docs/prod/6780.array#hic>

For translated versions of the documentation, go to the <http://docs.sun.com> web site, select your language, and search for the product documentation.

Application	Title	Part Number
Site planning information	<i>Site Planning Guide for Sun Storage 6580 and 6780 Arrays</i>	820-5775
Regulatory and safety information	<i>Sun Storage Regulatory and Safety Compliance Manual</i>	820-5506
Installation overview for rack-mounted arrays	<i>Getting Started Guide for Sun Storage 6580 and 6780 Rack Mounted Arrays</i>	820-5772
	<i>Getting Started Guide for Sun Storage 6580 and 6780 Rack Ready Arrays</i>	820-6875
Rack installation instructions	<i>Sun Rack II User's Guide</i>	820-4759
Rail kit installation instructions	<i>Sun Modular Storage Rail Kit Installation Guide</i>	820-5774
PDU installation instructions	<i>Power Distribution Unit Installation Guide for Sun Storage 6580 and 6780 Arrays and Sun StorageTek 2500 and 6000 Array Series</i>	820-6200
Array installation instructions	<i>Hardware Installation Guide for Sun Storage 6580 and 6780 Arrays</i>	820-5773
Upgrade a Sun StorageTek 6540 array to a Sun Storage 6580 or 6780 array	<i>Sun Storage 6000 Series Hardware Upgrade Guide for Sun StorageTek 6540 Array to Sun Storage 6580 Array and Sun Storage 6780 Array Upgrades</i>	820-7003
Software installation and initial configuration instructions	<i>Sun StorageTek Common Array Manager Software Installation Guide, v6.2</i>	820-5747
Command line management interface reference	<i>Sun StorageTek Common Array Manager CLI Guide</i>	820-6662

Application	Title	Part Number
Release-specific information for the Sun StorageTek Common Array Manager	<i>Sun StorageTek Common Array Manager Release Notes, v6.4</i>	820-7589
Multipath failover driver installation and configuration	<i>Sun StorageTek MPIIO Device Specific Module Installation Guide For Microsoft Windows OS</i>	820-4737
	<i>Sun StorageTek RDAC Multipath Failover Driver Installation Guide For Linux OS</i>	820-4738

Service Contact Information

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

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

Third-Party Web Sites

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