



Sun StorEdge™ Network 2 Gb McData Intrepid 6064 Director Release Notes

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Part No. 817-0772-10
March 2003, Revision A

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Sun StorEdge Network 2 Gb McData Intrepid 6064 Director Release Notes

This document contains important information about the Sun StorEdge™ Network 2 Gb (gigabit) McData Intrepid 6064 Director that was not available at the time the product documentation was published. Review this document so that you are aware of issues or requirements that can impact the installation and operation of the Sun StorEdge Network 2 Gb McData Intrepid 6064 Director.

System Requirements

This section discusses browser requirements and lists the software packages and patches that must be used with the Sun StorEdge SAN Foundation software and the Sun StorEdge Traffic Manager for Solaris when used with the Sun StorEdge Network 2 Gb McData Intrepid 6064 Director in a network fabric.

Topics in this section include:

- “Netscape Navigator” on page 1
- “Downloading the Packages and Patches” on page 2
- “Installing the Packages and Patches” on page 4

Netscape Navigator

McData management software must be used with Netscape Navigator 3.0 or later. Please refer to *McData Enterprise Fabric Connectivity Manager User Manual*, 620-005001. This (EFCM) manual can be found on the McData Intrepid 6064 Director CD that comes with the product, and at:

<http://www.mcdata.com/knowcenter/techpubs/index.html>.

Downloading the Packages and Patches

Certain software packages and patches are required for Sun StorEdge SAN Foundation software and the Sun StorEdge Traffic Manager for Solaris to be supported on your SAN. Topics in this section include:

- “Finding Packages and Patches” on page 2
- “To Download the Packages” on page 2
- “To Download the Patches” on page 3

Finding Packages and Patches

TABLE 1 explains where the software is located.

TABLE 1 Packages and Patches Download Web Sites

Software	Downloading Web Site
Packages	http://www.sun.com/storage/san
Patches	http://sunsolve.sun.com

▼ To Download the Packages

1. **Go to the following web site:** <http://www.sun.com/storage/san/>.
2. **At the bottom of the page, under Get the Software, click Sun StorEdge [tm] SAN 4.x release Software/Firmware Upgrades and Documentation.**
3. **Register, if you have not already, or enter your registration information.**
4. **Read and click Accept and Continue on the Legal/License Agreement page.**
5. **Click the link for the packages for your operating environment:**
 - For the Solaris™ 8 operating environment (OE), click “Solaris 8 SUNWcfpl/x and SUNWsan packages.”
 - For the Solaris 9 OE, click “Solaris 9 SUNWcfpl/x and SUNWsan packages.”
6. **Click the links for any optional packages you want to download.**

▼ To Download the Patches

1. **Go to** <http://sunsolve.sun.com>.
2. **Download the patches listed in TABLE 2.**
 - a. **Click Patches.**
 - b. **Click PatchPro.**
 - c. **Under PatchPro Interactive, click Network Storage Products.**
 - d. **Complete the fields for OS Release, Platform, and SAN Products.**
Specify 4.2 in the SAN Products field.
 - e. **Optionally, complete the fields for Disk Arrays Libraries, Disk Drives, Software, Tape Drives, Switches, and HBAs.**
If you complete these fields, you will get more patches than those listed in TABLE 2. You need only the ones in TABLE 2.
 - f. **Click Generate Patch List to generate a list of patches.**
Select the patches you want, and then click Download selected patches.
3. **Move the patches to the system on which you intend to install the software.**
4. **Unzip the patches.**

Installing the Packages and Patches

Topics in this section include:

- “Software Installation Sequence” on page 4
- “To Manually Install the Packages and Patches” on page 6

Software Installation Sequence

The shaded software components in TABLE 2 are required for Sun StorEdge SAN Foundation software and the Sun StorEdge Traffic Manager for Solaris to be supported on your SAN. You must install the required, and any optional components, in the sequence given in TABLE 2.

After adding the packages and patches to your system, you must reboot it.

Note – The patch levels (-xx) listed below are the minimums. All patches must have the specified level or later.

TABLE 2 Software Component Installation Sequence

Installation Sequence	Software Type	Solaris 8 OE	Solaris 9 OE	Software Component Description
1	Required package	SUNWsan	SUNWsan	Sun StorEdge Network Foundation package
2	Required package	SUNWcfpl	SUNWcfpl	cfgadm fp port driver specific library
3	Required package	SUNWcfplx	SUNWcfplx	cfgadm fp port driver specific library (64-bit) package
4	Optional package	SUNWfchba	SUNWfchba	Sun Fibre Channel Host Bus Adapter Library package
5	Optional package	SUNWfchbr	SUNWfchbr	Sun Fibre Channel Host Bus Adapter Library (root) package
6	Optional package	SUNWfchbx	SUNWfchbx	Sun Fibre Channel Host Bus Adapter Library (usr) (64-bit) package
7	Optional package	SUNWfcsn	SUNWfcsn	FCSM driver package
8	Optional package	SUNWfcsnx	SUNWfcsnx	FCSM driver (64-bit) package

TABLE 2 Software Component Installation Sequence *(Continued)*

Installation Sequence	Software Type	Solaris 8 OE	Solaris 9 OE	Software Component Description
9	Optional package	SUNWcfcl	SUNWcfcl	Common Fibre Channel HBA API Library (usr) package
10	Optional package	SUNWcfclr	SUNWcfclr	Common Fibre Channel HBA API Library (root) package
11	Optional package	SUNWcfclx	SUNWcfclx	Common Fibre Channel HBA API Library (usr) (64-bit) package
12	Required patch	111847-05	111847-05	Sun StorEdge SAN Foundation software patch
13	Required patch	111412-11	113039-03	Sun StorEdge Traffic Manager patch
14	Required patch	111095-13	113040-04	fc _p /fp/fctl drivers patch
15	Required patch	111096-06	113041-03	fc _{ip} driver patch
16	Required patch	111097-12	113042-04	qlc driver patch
17	Required patch	111413-10	113043-03	luxadm and libg _{fc} /liba5k patch
18	Required patch	111846-06	113044-03	cfgadm fp plug-in library patch
19	Optional patch	110614-02	N/A	ses driver patch
20	Optional patch	114475-01	114476-01	FCSM driver patch
21	Optional patch	113766-02	114477-01	Common Fibre Channel HBA API Library patch
22	Optional patch	113767-02	114478-01	SNIA Sun Fibre Channel HBA Library patch
23	Optional patch	112244-02	112244-02	SBus Dual Fibre Channel Network Adapter Firmware patch*
24	Optional patch	111853-01	111853-01	1Gb PCI Single/Dual FC Network Adapter FCODE

* Install the optional patch 112244-02 if the HBA FCode revision is 1.13.07 or lower. See the patch README file for details.

▼ To Manually Install the Packages and Patches

Follow the installation sequence in TABLE 2. This procedure is for systems that are running on the Solaris 8 OE. Check the table for patch numbers for the Solaris 9 OE.

1. Install the packages for the Sun StorEdge SAN Foundation software.

Use the correct packages for the Solaris 8 or Solaris 9 OE as listed in TABLE 2. For example, for the Solaris 8 OE:

```
# pkgadd -d pkg-location SUNWsan SUNWcfpl SUNWcfplx
```

2. Install the patches for the Sun StorEdge SAN Foundation software.

Use the correct patch for the Solaris 8 or Solaris 9 OE as listed in TABLE 2. For example, for the Solaris 8 OE:

```
# patchadd -M patch-location 111847-xx 111412-xx 111095-xx 111096-xx  
111097-xx 11413-xx 111846-xx
```

3. Reboot the system.

For each storage device, upgrade the software, firmware, or configuration. Upgrade the components to the revision levels outlined in “Software Component Installation Sequence” on page 4.

4. After you have installed all the packages and patches, see the appropriate man pages for instructions on how to use the drivers and utilities.

The man pages are in `/opt/SUNWsan/man` after you install the software.

Known Issues and Bugs

This section documents areas that require attention to ensure proper operation of the product.

Known Issues

The following issues are being studied for solution.

No Loop Support

The Sun StorEdge Network 2 Gb McData Intrepid 6064 Director does not work with loop devices. Therefore, the Sun StorEdge T3 and T3+ array/Sun StorEdge 3910/3960 Systems are not supported in loop mode. However, the Sun StorEdgeT3+ array and Sun StorEdge 3910/3960 systems are supported in fabric mode. Since the Sun StorEdge T3 array only works in the loop mode, it is not supported.

Cascading Limitation

The Sun StorEdge Network 2 Gb McData Intrepid 6064 Director allows a maximum of three switch hops.

Use Open Fabric Mode

The Sun StorEdge Network 2 Gb McData Intrepid 6064 Director has two operating modes: “McDATA” and “Open fabric.” Use only the “Open fabric” mode. Operating the switch in the “McDATA” mode is not supported.

Bugs

Bugs are issues that appear late in the test cycle after which there is not enough time to correct them for the current release.

Bugs With the Sun StorEdge Network 2 Gb McData Intrepid 6064 Director

- **Bug 4762783:** The online Help incorrectly states that the Sun StorEdge Network 2 Gb McData Intrepid 6064 Director needs to be offline for a firmware upgrade.

Workaround: The Sun StorEdge Network 2 Gb McData Intrepid 6064 Director can remain online during a firmware upgrade.

- **Bug 4765963:** The `deleteWwnMem` command returns an error message.

```
# deleteWwnMem zone-name WWN-name
Error 55: Invalid Zone Name
```

Workaround: Do not use the command-line interface to delete a zone if it is not in the Zone Set Working Area. Use the Enterprise Fabric Connectivity Manager Lite (EFCM) to delete the zone.

Bugs With System Components Configured With the Sun StorEdge Network 2 Gb McData Intrepid 6064 Director

- **Bug 4747435:** When issuing the `cfgadm` command, an I/O failure occurs and the output reports the Sun StorEdge T3 array in an unusable state.

```
# cfgadm -al c4
Ap_Id                               Type           Receptacle    Occupant      Condition
c5::50020f230000bfed                disk           connected     configured    unusable
```

Workaround: Check the integrity of the Sun StorEdge Network 2 Gb McData Intrepid 6064 Director port cable connections and that the green port LEDs are lit.

- **Bug 4811576:** When disconnecting a cable from the host to a Sun StorEdge Network 2 Gb McData Intrepid 6064 Director and reconnecting it to another Sun StorEdge Network 2 Gb McData Intrepid 6064 Director within the same fabric (using WWN zoning), the host stops functioning.

Workaround: Stop all I/O processes before removing the HBA cables.

- **Bug 4749906:** If a configuration uses extended distances (10 kilometers), the host HBA might cycle offline/online repeatedly.
Workaround: Do not use links of 10 kilometers.
- **Bug 4744293:** The hosts cannot ping each other with FCIP configured.
Workaround: Do not use inter-switch links (ISLs—links between cascaded switches) with the Sun StorEdge Network 2 Gb Fibre Channel Switch-8 and Switch-16. If no ISLs are involved, try a few unplumb/plumb operations.
- **Bug 4715673:** Any `slicd` (daemon) command fails when submitted in succession in the background.
Workaround:
 - Issue only one `slicd` command at a time.
 - Issue the command in the foreground.
- **Bug 4756241:** The `qlc` firmware reports system error message 8002. The HBA resets and results in an offline/online message.
Workaround: Be aware that this problem can occur.
- **Bug 4737352:** When issuing the `cfgadm -c configure` command, the Sun StorEdge T3+ array does not register its FC4-type to the Sun StorEdge Network 2 Gb McData Intrepid 6064 Director.
Workaround: Use the `cfgadm -c configure` command with the `-f force` option.

```
# cfgadm -c configure -f device
```

Service Contact Information

If you need help installing or using this product, call 1-800-USA-4SUN if you are in the U.S., or go to:

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

