



Sun StorEdge™ Network 1 Gb FC Switch Release Notes Firmware 4.02.4x Release

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Sun StorEdge Network 1 Gb FC Switch Release Notes Firmware 4.02.4x Release

This document contains important information about the Sun StorEdge Network 1 Gb FC Switch-8 and -16 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 switches.

Note – For detailed information on the Sun StorEdge Network 1 Gb FC Switch-8 and -16, refer to the documents at:

[http://www.sun.com/products-n-solutions/hardware/docs/
Network_Storage_Solutions/Hubs_and_Switches/index.html](http://www.sun.com/products-n-solutions/hardware/docs/Network_Storage_Solutions/Hubs_and_Switches/index.html)

and click Other Documentation.

Version Compatibility

TABLE 1 describes the firmware and SANbox Manager™ version compatibility for StorEdge Network 1 Gb and 2 Gb FC switches.

TABLE 1 Compatibility of StorEdge Network 1 Gb and 2 Gb FC Switch and SANbox Manager

	SANbox Manager 1.03/1.05	SANbox Manager 2.0
2 Gb FC switch with 1.3/1.5 firmware	Fully Compatible	<ul style="list-style-type: none">• Manageable inband only.• Cannot install firmware• Cannot archive or restore configuration
2 Gb FC switch with 2.0.0.x firmware	Not supported	Fully Compatible
1 Gb FC switch with 4.02.4x firmware	Fully Compatible	<ul style="list-style-type: none">• Manageable inband only.• Cannot install firmware• Cannot archive or restore configuration

Quick Installation

There are two installation procedures: one for switches in a fabric of all 1 Gb switches, and another for switches in a fabric consisting of 1 Gb and 2 Gb switches. Choose one of the following procedures:

- “To Upgrade Switch Firmware in a 1 Gb Fabric” on page 3
- “To Upgrade Switch Firmware in a 1 Gb and 2 Gb Fabric” on page 4

SANbox Manager is compatible with Sun Solaris™ Operating System versions 8 and 9.

▼ To Upgrade Switch Firmware in a 1 Gb Fabric

This procedure upgrades StorEdge Network 1 Gb FC switches from 4.02.xx to 4.02.4x firmware. It also upgrades the SANbox Manager application from version 1.03 to 1.05.

- 1. Make sure you are logged in as root.**
- 2. Determine what version of SANbox Manager is installed on the workstation. Open SANbox Manager, select Help ⇒ About. If the version is 1.05.14, go to step 3. Otherwise, remove the 1.03.xx package if installed, then install the 1.05 package:**

To remove the 1.03.xx package, enter the following command:

```
# pkgrm SUNWsmgr2
```

To install the package for SANbox Manager 1.05, enter the following command:

```
# pkgadd -d ./SUNWsmgr2_2.1.2003.03.05.14.20
```

You can obtain the SANbox Manager 1.05 package from
<http://sunsolve.sun.com>.

3. Install the patch from the CD.

Move to the directory on the CD containing the patch file, and add patch 112433-03:

```
# cd /cdrom/cdrom0/StorEdgeSAN4.0/Patches
# patchadd 112433-03
```

After installing the patch, the firmware resides in the following directory (default path):

```
/usr/opt/SUNWsmgr2/firmware/SANbox1
```

4. Install firmware on each switch in the fabric.

Use SANbox Manager 1.05 to install the new firmware. For a detailed procedure on installing firmware, refer to *SANbox With E_Ports Switch Management User's Manual*, 816-7596.

▼ To Upgrade Switch Firmware in a 1 Gb and 2 Gb Fabric

This procedure does the following:

- Upgrades Sun StorEdge Network 1 Gb FC switches to 4.02.4x firmware
- Upgrades Sun StorEdge Network 2 Gb FC switches to 2.0.0.x firmware.
- Installs SANbox Manager 1.05.14 (to manage 1 Gb switches) and SANbox Manager version 2.00.xx (to manage 2 Gb switches).

1. Make sure you are logged in as root.

2. Determine what version of SANbox Manager is installed on the workstation.

Open SANbox Manager, select **Help** ⇒ **About**. If the version is 1.05.14, go to step 3. Otherwise, remove the 1.03.xx package if installed, then install the 1.05 package:

To remove the 1.03.xx package, enter the following command:

```
# pkgrm SUNWsmgr2
```


To install the package for SANbox Manager 1.05, enter the following command:

```
# pkgadd -d ./SUNWsmgr2_2.1.2003.03.05.14.20
```

You can obtain the SANbox Manager 1.05 package from
<http://sunsolve.sun.com>.

3. Install patch 112434-04 from the CD.

Move to the directory on the CD that contains the patch file, and add patch 112434-04:.

```
# cd /cdrom/cdrom0/StorEdgeSAN4.0/Patches  
# patchadd 112434-04
```

After installing the patch, the 1 Gb FC switch firmware resides in the following directory (default installation path):

```
/usr/opt/SUNWsmgr2/firmware/SANbox1
```

The 2 Gb FC switch firmware resides in the following directory (default installation path):

```
/usr/opt/SUNWsmgr2/firmware/SANbox2
```

4. Install firmware on each 1 Gb FC switch in the fabric.

Use SANbox Manager 1.05 to install the new firmware. For a detailed procedure on installing firmware, refer to *SANbox With E_Ports Switch Management User's Manual*, 816-7596.

5. Install firmware on each 2 Gb FC switch in the fabric.

In this release, the Sun StorEdge Network 2 Gb FC-8, -16, and -64 switches use the same firmware. Use SANbox Manager version 1.05, or FTP and the Telnet command-line interface to load the new firmware.

For a detailed procedure on installing firmware, refer to the Switch Management User's Manual that corresponds to your product:

- *SANbox2-8c/16 Switch Management User's Manual, Sun StorEdge Network 2 Gb FC Switch-8/16*, 875-3264.
- *SANbox2-64 Switch Management User's Manual, Sun StorEdge Network 2 Gb FC Switch-64, Switch Management User's Manual*, 875-3409.

6. Locate the SANbox Manager executable.

After installing the patch, SANbox Manager executables can be found in the following directories if the default installation path was used:

- Version 1.05.14: `/usr/opt/SUNWsmgr2/bin/SANbox_Manager`
- Version 2.00.xx: `/usr/opt/SUNWsmgr2/bin2/SANbox_Manager`

Bugs

Bugs appear late in the test cycle when there is not enough time to correct them for the current release.

- **4846819:** Switch loses Fc-4 type of the connected device as displayed in SANbox Manager. An error may occur when the switch is reset or under lip error injection.

Workaround: Offline the port that is not displaying Fc-4 type, then place it back online.

- **4873507:** HBA did not show up in nameserver after port came online. An error may occur when port offline/online error injection is being preformed.

Workaround: Offline the port that does not show up in nameserver, then place it back online.

Bugs Fixed

The following bugs were fixed between firmware versions 4.02.38 and 4.02.4x:

- **Bug 4822128**

Synopsis: During fault injection (switch resets or luxadm failover) on the StorEdge Network 1 Gb FC switch, the switch sends too many events which causes the host to fail to bring a device online, resulting in I/O failure.

- **Bug 4822541**

Synopsis: Name Server query is timing out after resetting another switch in the fabric.

- **Bug 4827887**

Synopsis: When you unplug one of the ISL cables from a StorEdge Network 1 Gb FC switch, the host may disappear from the fabric and then reappear later.

- **Bug 4827987**

Synopsis: Bad frame from switch with unknown D_ID and S_ID could be seen when turning ports offline.

- **Bug 4830434**

Synopsis: Using telnet CLI to remove WWNs from a zone may cause a switch to reset and potentially corrupt the zone configuration.

- **Bug 4897777**

Synopsis: When zoning is active in fabric, specific configurations with 6910/6960 can cause 1 Gb switch to reset.

Service Contact Information

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

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

