Sun StorEdge™ Network 2 Gb FC Switch-64 Release Notes

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Sun StorEdge Network 2 Gb FC Switch-64 Release Notes

This document contains important information about the Sun StorEdge™ Network 2 Gb FC Switch-64 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 FC Switch-64.

Note – For detailed information about the Sun StorEdge Network 2 Gb FC Switch-64 and its installation and management, refer to the documents at:

`http://www.sun.com/products-n-solutions/hardware/docs/Network_Storage_Solutions/SAN/index.html`

and click Other Documentation.

Quick Installation

This is the first release of the Sun StorEdge Network 2 Gb FC Switch-64. The supported firmware for this switch is 1.5.0.7 (released in this package) or higher and the supported GUI is 1.05.14 (released with package SUNWsmgr2, VERSION=2.1, REV=2003.03.05.14.20) or later.

1. **Make sure you are logged in as root.**
   - If you are doing the install for the first time, go directly to Step 5.
   - If you currently have a version of SUNWsmgr2 on your system, proceed to Step 2.
2. **Check for any patches, related to the previous SUNWsmgr2 package by typing:**

```
# showrev -p | grep 112429
Patch: 112429-08 Obsoletes: Requires: Incompatibles: Packages:
SUNWsmgr2
```

3. **Remove any previous ptach(es) with the** `patchrm` **command.**

   The patch found in the above example should be removed by typing:

```
# patchrm 112429-08
```

4. **Remove the earlier SUNWsmgr2 package by typing:**

```
# pkgrm SUNWsmgr2
```

5. **Access the directory where the new SUNWsmgr2 package is to be installed.**
6. **Add the new package by typing:**

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

7. **Start the SANbox Manager by typing:**

```
# /usr/opt/SUNWsmgr2/bin/SANbox_Manager
```

Note – All the Sun StorEdge Network 2G FC Switches (Switch-8, Switch-16, and Switch-64) share the same firmware (version 1.5.0.7 or later) with this release.

Notes and New Features

This section contains information about the following topics:

- "Baseline Software Package" on page 3
- "Performing a Hot Swap Using SANbox Manager on SB2-32/64" on page 3
- "Switch Firmware Download" on page 4
- "IOStreamGuard" on page 4
- "Alarm Thresholds" on page 4
- "Smart Zoning Activation" on page 5
- "Remove 'Brocade Mode'" on page 5
- "SNMP 4.0 FA MIB" on page 5
- "Firmware Naming Convention" on page 5
- "SNMP Trap Changes" on page 6
- "SANsurfer Fabric View" on page 6

Baseline Software Package

The Sun StorEdge Network 2 Gb FC Switch-64 is released with the following software package installed:

SUNWsmgr2 VERSION=2.1, REV=2003.03.05.14.20

Performing a Hot Swap Using SANbox Manager on SB2-32/64

When performing a hot-swap procedure using the SANbox Manager it is strictly recommended that the user do so from a direct SANbox Manager session to the switch—through an Entry switch management session and not through an Inband switch management session. Trying to perform a hot-swap procedure through an Inband switch management session can result in unpredictable behavior.

Using a Telnet session for a hot swap procedure is also permissible.

Switch Firmware Download

When downloading firmware using the SANbox Manager, you should do so from a direct SANbox Manager session with the switch. This means you use an Entry Switch Management Session instead of an Inband Switch Management Session. The latter might result in a longer download time.

Using FTP to download and a Telnet session to activate the switch firmware image is also permissible.

IOStreamGuard

IOStreamGuard is disabled on the switch by default. Enabling IOStreamGuard on a port results in Register State Change Notifications (RSCNs) being blocked to the device connected to the port. If this device is a host, the host cannot determine when a new target joins or leaves the fabric. Therefore, enabling IOStreamGuard is not recommended for host ports for normal configurations.

Alarm Thresholds

The Alarm Threshold Configuration screen allows for monitoring the switch ports for certain counters, such as logins. If a switch port increments these counters too rapidly, the threshold monitoring sends the port offline.

Note – Once placed offline, the port will *not* return to online status until you take action to return it.

Configure the threshold monitoring set point values to send a port offline as desired. For more information, refer to “Managing Alarms” in the *SANbox2-64 Switch Management User’s Manual*, 875-3409.

Each counter threshold can be enabled and disabled with the `set config threshold` command. The counter thresholds include:

- CRC errors
- Decode errors
- ISL bounces
- Logins (to the fabric)
- Logouts (from the fabric)
- Loss of synchronization

If the Enable All Alarm Thresholds feature is enabled for decode errors and the decode error threshold is exceeded three times, the sample window (the default sample window of 10 seconds changes to 30 seconds), the user port is disabled and an alarm is generated. To recover the disabled port, perform one of the following:

- Set the port state online
- Reset the port
- Reset the Sun StorEdge Network 2 Gb FC Switch-64

Refer “Managing Alarms” in the *SANbox2-64 Switch Management User’s Manual*, 875-3409 for more information on Configuring Alarms.

Smart Zoning Activation

Activation of a zoneset causes RSCNs to be generated only in the affected zone(s).

Remove ‘Brocade Mode’

Only active zone sets are propagated per the FC-SW2 specification.

SNMP 4.0 FA MIB

Support for the SNMP 4.0 FA MIB has been added.

Firmware Naming Convention

An extra digit was added to firmware version 1.5.0.7 with the Sun StorEdge Network 2 Gb FC Switch-64.

SNMP Trap Changes

The connUnitEventTrap is replaced with the following:

- connUnitStatusChange
- connUnitDeletedTrap
- connUnitSensorStatusChange
- connUnitPortStatusChange

SANsurfer Fabric View

I/O traffic errors can now be monitored in real time on a per-port basis.

- Set graph-polling interval—the user can set the update rate for how often to poll.
- Can graph bytes or frames.

For more information, refer to *SANbox2-64 Switch Management User's Manual,* 875-3409.

Bugs

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

- **Bug 4819523:** When you click the Cancel button in the HotSwap wizard in the 64-port switch SANbox Manager, the switch can hang.

  Workaround:

  - Do not terminate the hot swap once it is started.
  - If necessary, power-cycle the switch to recover.

- **Bug 4819531:** On performing a "HotSwap - insert Blade," if the blade is not fully installed, error messages result. The generated error message does not indicate the problem.

  Workaround: Make sure that the blade is installed correctly before performing "blade insert."

- **Bug 4821346:** Using the Storage Automated Diagnostic Environment with a a large fabric, you see that some of the switches return an error message similar to the following:

```
ERR: Skipping ip sseqa-31.ebay.sun.com because type(Couldn't
detect a device at IP: 10.4.51.83), class(ERR) or wwn() is blank
```

  Workaround: Manually add the switch by using the Storage Automated Diagnostic Environment feature under Admin → General Maintenance → Add Devices.

- **Bug 4822128:** The I/O stream might fail during fault injection, and the host can lose its link to some of the devices.

  Workaround: Reset the port that has the apparently missing devices.

- **Bug 4825899:** The switch Nameserver loses login to a TL_Port. This occurs while doing an error injection on the HBA side. The devices goes offline and using SANbox Manager shows that the switch TL_Port is online. There is no entry shown in Nameserver in the SANbox Manager for the switch TL_Port.

  Workaround: Reset the port or the switch to recover.

- **Bug 4832041:** If a port is taken offline and then returned to online using the API, sometimes it might not come back online.

  Workaround: Bring the port back online using the SANbox Manager, or reset the port.

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
```