



# Sun StorEdge™ Network 2 Gb Brocade SilkWorm 3200 and 3800 Switches Release Notes

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3.1.2x Firmware

Sun Microsystems, Inc.  
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# Sun StorEdge Network 2 Gb Brocade SilkWorm 3200 and 3800 Switches Release Notes 3.1.2x Firmware

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This document contains important information about the Sun StorEdge Network 2 Gb Brocade SilkWorm 3200 and 3800 switches that was not available at the time the product documentation was published. Read 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 Brocade SilkWorm 3200 and 3800 switches.

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## New Features In This Release

The fabric operating system (FOS) v3.1.2x is a patch release that contains fixes to a small number of issues found since the release of FOS v3.1.2x. The following new features have also been added to v3.1.2x:

- A reduction in fabric configuration downtime. The extended-edge Port Identifier (PID) for mixed fabrics eliminates host reboot for hosts that statically bind PIDs.
- Improved fabric diagnostics. The PathInfo command displays information about the path between any two ports in a fabric.
- Improved manageability and ease of use. The Advanced Web Tools feature is improved.

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# System Requirements

This section covers the following topics:

- “Software Requirements” on page 3
- “Supported Hardware” on page 4
- “Fabric Operating System (Switch Firmware) Requirements” on page 4

## Software Requirements

This section lists the latest software requirements.

### Basic Software Requirements

- Solaris™ 8 Operating System 04/01 or later with the latest security patches
- Solaris™ 9 Operating System
- Sun StorEdge™ SAN Foundation software packages and patches for the Sun StorEdge SAN 4.4 release

### Brocade Management Software Requirements

- Mozilla™ 1.4 (or later)
- Java™ plug-in 1.4.2 (or later)

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**Note** – Refer to the firmware release notes at the Brocade web site for information about the latest revisions to the above software at <http://www.brocade.com> and click Partner Login at the top menu bar. A User ID and password are required. Otherwise contact your Sun service representative.

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# Supported Hardware

For a list of the supported servers, host bus adapters (HBAs), and storage devices, see *Sun StorEdge SAN Foundation Software 4.4 Release Notes, Including Sun StorEdge Traffic Manager for the Solaris Operating System*, 817-3673-12. Recent additions to this list include the following items:

- JNI 2 Gb PCI Single and Dual Port Fibre Channel HBA
- Sun StorEdge Fibre channel 9840B, 9940B, 9940C, and LTO GEN II FC tape drives
- Sun StorEdge FC420 FC-SCSI Bridge for L25/L100 tape libraries
- Sun Fire™ V210, V240, V250, 280R, V440, 480, V880, V1280, 15000, and 12000

## Fabric Operating System (Switch Firmware) Requirements

TABLE 1 summarizes the versions of Brocade fabric operating system (FOS) that are supported in conjunction with this release. Sun recommends using the latest software release versions to optimize the benefits of a SAN.

**TABLE 1** Minimum Fabric Operating System (FOS) Requirements

	Sun StorEdge Network 2 Gb Brocade SilkWorm 3200 and 3800	Sun StorEdge Network 2 Gb Brocade SilkWorm 3900 and 12000	Sun StorEdge Network 2 Gb Brocade SilkWorm 3250, 3850, and 24000	Brocade Fabric Manager
<b>General Compatibility</b>	3.0.2j	4.0.2c	4.2.0b	3.0.2c *
<b>With Secure FOS Enabled</b>	3.1.0	4.1.0	4.2.0b	4.1.0 *
<b>Recommended Software Versions</b>	3.1.2a	4.2.0b	4.2.0b	4.1.1

\* The Sun StorEdge Network 2 Gb Brocade SilkWorm 3250, 3850, and 24000 switches are only supported by Fabric Manager version 4.1.1 or later.

For Brocade FOS end-of-life information, see:

[http://www.brocade.com/support/end\\_of\\_life.jsp](http://www.brocade.com/support/end_of_life.jsp)

## Required Packages

You need to install these packages, in the listed order, before you install the patches. If the packages are already on the system from a previous installation, you do not need to install them again. All of the packages can be found at:

<http://www.sun.com/download/> or <http://www.sun.com/storage/san>.

- SUNWsan
- SUNWcfl
- SUNWcflx
- SUNWfchba
- SUNWcflr
- SUNWfchbr
- SUNWfchbx
- SUNWfcsn
- SUNWfcsnx
- SUNWcfl
- SUNWcflx
- SUNWmdiu
- SUNWjfca
- SUNWjfcax
- SUNWjfcaw
- SUNWjfcawx

For instructions on where and how to download Sun StorEdge SAN Foundation software driver packages and patches required to run the switches with supported hardware from Sun, see the *Sun StorEdge SAN Foundation Software Release Notes*, part number 817-0071. You can find this document at:

[http://www.sun.com/products-n-solutions/  
hardware/docs/Network\\_Storage\\_Solutions/SAN/index.html](http://www.sun.com/products-n-solutions/hardware/docs/Network_Storage_Solutions/SAN/index.html)

# Required Patches

TABLE 2 and TABLE 3 contain a list of the patches necessary to use the new 3.1.2x firmware. The latest patches are always downloaded at:  
<http://sunsolve.sun.com>.

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**Note** – Install the Solaris OS update patches from either TABLE 2 or TABLE 3 in the order shown before installing the Brocade FOS v3.1.2x patch shown in TABLE 4.

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**TABLE 2** Sun Solaris 8 OS Patches

Patches	Name
111847-xx	SAN Foundation software enhancements
111412-xx	Sun StorEdge Traffic Manager software
111095-xx	fcip/fp/fctl drivers
111096-xx	fcip driver
111097-xx	qlc driver
111413-xx	luxadm and libq_fc/liba5k
111846-xx	cfcadm fp plug-in library
110614-xx	ses driver
114475-xx	FCSM driver
113766-xx	Common Fibre Channel HBA API library
113767-xx	SNIA Sun Fibre Channel HBA library
112244-xx	SBus Dual Fibre Channel Network Adapter Firmware*
114877-xx	JNI driver support
111853-xx	1 Gb PCI Single/Dual FC Network Adapter FCode
114873-xx	Single 2 Gbit FC Network Host Adapter FCode
114874-xx	Dual 2 Gbit FC Network Host Adapter FCode
116423-xx	JNI PCI Single + Dual 2 Gbit FC Network Host Adapter FCode

\* Install the optional 112244-02 patch if the HBA FCode revision is 1.13.06 or lower. See the patch README file for details.



**TABLE 3** Sun Solaris 9 OS Patches

Patches	Name
111847-xx	SAN Foundation software enhancements
113046-xx	fcv patch
113049-xx	luxadm and liba5k.so.2 patch
113039-xx	Sun StorEdge Traffic Manager software
113040-xx	fcv/fp/fctl drivers
113041-xx	fcip driver
113042-xx	qlc driver
113043-xx	luxadm and libq_fc/liba5k
113044-xx	cfgadm fp plug-in library
114476-xx	FCSM driver
114477-xx	Common Fibre Channel HBA API library
114478-xx	SNIA Sun Fibre Channel HBA library
112244-xx	SBus Dual Fibre Channel Network Adapter Firmware*
114878-xx	JNI driver support
111853-xx	1 Gb PCI Single/Dual FC Network Adapter FCode
114873-xx	Single 2 Gbit FC Network Host Adapter FCode
114874-xx	Dual 2 Gbit FC Network Host Adapter FCode
116423-xx	JNI PCI Single + Dual 2 Gbit FC Network Host Adapter FCode

\* Install the optional 112244-02 patch if the HBA FCode revision is 1.13.06 or lower. See the patch README file for details.

**TABLE 4** Brocade Fabric Operating System v3.1.2a Patch

Patch	Name
115360-03	Brocade switch 3.1.2a firmware patch

## ▼ To Download and Install the Patches

The latest patches are available on the SunSolve<sup>SM</sup> web site with the use of PatchFinder. Use the following procedure to retrieve the patches for your Operating System and the patch for the 3.1.2x firmware.

**1. Access the SunSolve web site at:**

<http://sunsolve.sun.com>.

**2. Under SunSolve Patch Contents, click Patch Portal.**

**3. Under PatchFinder, type the patch ID (refer to TABLE 2, and TABLE 3) and click Find Patch.**

Do not type the -xx revision number. PatchFinder automatically finds the latest patch.

**4. Verify that you have retrieved the correct patch.**

**5. Print the page by doing one of the following:**

- Print the page.
- Click Printer Friendly Page, and then print the page.

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**Note** – Printing this page also prints the patch README file which contains the installation instructions, special instructions, special guidelines, and notes.

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**6. Download the patch by clicking on either HTTP or FTP in the following line:**

Download Patch (*nn,nnn,nnn* bytes) [HTTP](#) [FTP](#).

**7. Click PatchFinder and repeat the process from Step 3 for each patch.**

**8. When you are finished downloading all the patches, install the patches by following the instructions in each patch README file.**

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# Known Issues and Bugs

The following bugs are listed in order of priority (P) first, and then severity (S).

- **Bug 4959100 (P2/S3):** If storage devices generate multiple registered state change notifications (RSCNs) in a short time period, the Sun StorEdge Network 2 Gb Brocade SilkWorm 3200 and 3800 switches can report the following error message:

```
mqWrite: msg threshold exceeded
```

**Workaround:** When troubleshooting a Sun StorEdge Network 2 Gb Brocade SilkWorm 3200 or 3800 switch, perform any fault injections with at least five minutes between intervals.

- **Bug 4465638 (P3/S3):** The performance (frames per second) of the `loopPortTest` command [diagnostic test] does not pass a high number of frames for the fabric operating systems (FOS) 3.x and 4.x.

**Workaround:** None at this time.

- **Bug 4753552 (P3/S4):** The Sun StorEdge Network 2 Gb Brocade SilkWorm 3800 switch ports can change from type `F_Port` to `G_Port` when performing multiple fault injections.

**Workaround:** Disable and then re-enable the switch port.

- **Bug 5010550 (P4/S3):** No command exists to clear out `enc_out`, `link_fail` or `loss_sync` error counters from the 3200 and 3800 switch ports.

**Workaround:** Issue the `fastboot` CLI command to reset the switch and clear the error counters.

- **Bug 4993173 (P4/S4):** Brocade Fabric Manager 4.1.1 reports only the first three characters of a switch model number in the FICON Related column. For example, 325, 385, and 390.

**Workaround:** None at this time.

- **Bug 4703978 (P4/S5):** Simple network management protocol (SNMP) cannot provide switch zoning information.

**Workaround:** Use a Brocade application programming interface (API) 2.1 or a Storage Management Initiative Specification (SMI-S) agent to obtain the zoning information.

- **Bug 4636120 (P5/S5):** The `SpinFab` test command output indicates a pass condition on the 3200 and 3800 loopback ports.

**Workaround:** None at this time.

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## Related Documentation

The latest *Brocade Fabric OS v3.1.2x Release Notes\_x.x* can be found at the Brocade web site:

<http://www.brocade.com> ⇒ partner network ⇒ enter user ID and password (or register) ⇒ Firmware ⇒ select your FOS ⇒ select the FOS version (if required) ⇒ fill out the export compliance form, read text, and submit ⇒ read the terms ⇒ select the appropriate Release Notes

For instructions on where and how to download Sun StorEdge SAN Foundation software driver packages and patches, see “Required Packages” on page 5.

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## Service Contact Information

If you need help installing or using this product in the United States, call 1-800-USA-4SUN, or go to:

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