



Sun StorEdge™ Network 1 Gb FC Switch-8 and Switch-16 Release Notes

Sun Microsystems, Inc.
4150 Network Circle
Santa Clara, CA 95054 U.S.A.
650-960-1300

Part No. 816-0842-13
April 2003, Revision A

Submit comments about this document at: <http://www.sun.com/hwdocs/feedback>

Copyright 2003 Sun Microsystems, Inc., 4150 Network Circle, Santa Clara, California 95054, U.S.A. All rights reserved.

Sun Microsystems, Inc. has intellectual property rights relating to technology that is described in this document. In particular, and without limitation, these intellectual property rights may include one or more of the U.S. patents listed at <http://www.sun.com/patents> and one or more additional patents or pending patent applications in the U.S. and in other countries.

This document and the product to which it pertains are distributed under licenses restricting their use, copying, distribution, and decompilation. No part of the product or of this document may be reproduced in any form by any means without prior written authorization of Sun and its licensors, if any.

Third-party software, including font technology, is copyrighted and licensed from Sun suppliers.

Parts of the product may be derived from Berkeley BSD systems, licensed from the University of California. UNIX is a registered trademark in the U.S. and in other countries, exclusively licensed through X/Open Company, Ltd.

Sun, Sun Microsystems, the Sun logo, AnswerBook2, docs.sun.com, Sun StorEdge, and Solaris are trademarks or registered trademarks of Sun Microsystems, Inc. in the U.S. and in other countries.

All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. in the U.S. and in other countries. Products bearing SPARC trademarks are based upon an architecture developed by Sun Microsystems, Inc.

The OPEN LOOK and Sun™ Graphical User Interface was developed by Sun Microsystems, Inc. for its users and licensees. Sun acknowledges the pioneering efforts of Xerox in researching and developing the concept of visual or graphical user interfaces for the computer industry. Sun holds a non-exclusive license from Xerox to the Xerox Graphical User Interface, which license also covers Sun's licensees who implement OPEN LOOK GUIs and otherwise comply with Sun's written license agreements.

U.S. Government Rights—Commercial use. Government users are subject to the Sun Microsystems, Inc. standard license agreement and applicable provisions of the FAR and its supplements.

DOCUMENTATION IS PROVIDED "AS IS" AND ALL EXPRESS OR IMPLIED CONDITIONS, REPRESENTATIONS AND WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT, ARE DISCLAIMED, EXCEPT TO THE EXTENT THAT SUCH DISCLAIMERS ARE HELD TO BE LEGALLY INVALID.

Copyright 2003 Sun Microsystems, Inc., 4150 Network Circle, Santa Clara, California 95054, Etats-Unis. Tous droits réservés.

Sun Microsystems, Inc. a les droits de propriété intellectuelle relatant à la technologie qui est décrit dans ce document. En particulier, et sans la limitation, ces droits de propriété intellectuelle peuvent inclure un ou plus des brevets américains énumérés à <http://www.sun.com/patents> et un ou les brevets plus supplémentaires ou les applications de brevet en attente dans les Etats-Unis et dans les autres pays.

Ce produit ou document est protégé par un copyright et distribué avec des licences qui en restreignent l'utilisation, la copie, la distribution, et la décompilation. Aucune partie de ce produit ou document ne peut être reproduite sous aucune forme, par quelque moyen que ce soit, sans l'autorisation préalable et écrite de Sun et de ses bailleurs de licence, s'il y en a.

Le logiciel détenu par des tiers, et qui comprend la technologie relative aux polices de caractères, est protégé par un copyright et licencié par des fournisseurs de Sun.

Des parties de ce produit pourront être dérivées des systèmes Berkeley BSD licenciés par l'Université de Californie. UNIX est une marque déposée aux Etats-Unis et dans d'autres pays et licenciée exclusivement par X/Open Company, Ltd.

Sun, Sun Microsystems, le logo Sun, AnswerBook2, docs.sun.com, Sun StorEdge, et Solaris sont des marques de fabrique ou des marques déposées de Sun Microsystems, Inc. aux Etats-Unis et dans d'autres pays.

Toutes les marques SPARC sont utilisées sous licence et sont des marques de fabrique ou des marques déposées de SPARC International, Inc. aux Etats-Unis et dans d'autres pays. Les produits portant les marques SPARC sont basés sur une architecture développée par Sun Microsystems, Inc.

L'interface d'utilisation graphique OPEN LOOK et Sun™ a été développée par Sun Microsystems, Inc. pour ses utilisateurs et licenciés. Sun reconnaît les efforts de pionniers de Xerox pour la recherche et le développement du concept des interfaces d'utilisation visuelle ou graphique pour l'industrie de l'informatique. Sun détient une licence non exclusive de Xerox sur l'interface d'utilisation graphique Xerox, cette licence couvrant également les licenciées de Sun qui mettent en place l'interface d'utilisation graphique OPEN LOOK et qui en outre se conforment aux licences écrites de Sun.

LA DOCUMENTATION EST FOURNIE "EN L'ÉTAT" ET TOUTES AUTRES CONDITIONS, DECLARATIONS ET GARANTIES EXPRESSES OU TACITES SONT FORMELLEMENT EXCLUES, DANS LA MESURE AUTORISEE PAR LA LOI APPLICABLE, Y COMPRIS NOTAMMENT TOUTE GARANTIE IMPLICITE RELATIVE A LA QUALITE MARCHANDE, A L'APTITUDE A UNE UTILISATION PARTICULIERE OU A L'ABSENCE DE CONTREFAÇON.



Contents

Quick Installation 2

Bugs 3

 Bug Fixes for Firmware Versions Between 4.02.33 and 4.02.38 4

Service Contact Information 5

Sun StorEdge Network 1 Gb FC Switch-8 and Switch-16 Release Notes

This document contains important information about the new code release for the Sun StorEdge™ Network 1 Gb FC Switch-8 and Switch-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 operation of the switches.

Note – For detailed information about the Sun StorEdge Network 1 Gb FC Switch-8 and Switch-16 and about installation and management, refer to 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**.

Quick Installation

The firmware should be upgraded to version 4.02.38 or higher (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 patch(es) with the patchrm command.

Remove the patch found in the preceding example 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
```

8. Update the firmware.

The new firmware for the Sun StorEdge Network 1 Gb FC Switch-8 and Switch-16 exists in the following directory:

/usr/opt/SUNWsmgr2/bin/firmware/SANbox1

For details on upgrading the firmware from version 4.02.xx to the 4.02.38 or higher (released with package SUNWsmgr2, VERSION=2.1, REV=2003.03.05.14.20 or later), refer to *SANbox with E_Ports Switch Management User's Manual*, 816-7596-10.

For details on upgrading the firmware from an older version, such as 3.04.xx, to 4.02.38 or higher, refer to Appendix C of *SANbox with E_Ports Switch Management User's Manual*, 816-7596-10.

Bugs

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

- **Bug 4830434:** Changing the members of a zone that is part of the currently active zoneset through a Telnet session causes a switch to reset and potentially corrupts the zoneset configuration.

Note – In general you should not edit the active zoneset.

Workaround: There are several solutions for this bug:

- Use the GUI instead of a Telnet session for editing the zone configuration.
- If there is a SANbox2 switch in the same fabric, edit the zone on the SANbox2 [switch]. When the modified zoneset is activated, the changes are correctly propagated to all the switches in the fabric by the standards-defined mechanism.
- **Bug 4827887:** During error injection on ISL cables, the host report disappears from the fabric and reappears from fabric messages.

Workaround: The devices that seem to disappear recover automatically and do not require any user intervention. This problem does not occur if there is no error injection.

- **Bug 4822541:** Sometimes when a switch is reset in a multiswitch fabric, the Name Server query might time-out and cause the devices to go offline.

Workaround: Reset the ports on the devices that seem to have disappeared. You can also reset the switch.

- **Bug 4826541:** Sometimes when using a JNI 2 Gb PCI Fibre Channel HBA (JFCA driver version 1.0.b.07), SCSI transport failure messages are displayed. The switch port counter also typically displays several CRC errors.

Workaround: Reset the port or the switch.

Bug Fixes for Firmware Versions Between 4.02.33 and 4.02.38

The following is a list of bugs that have been resolved.

- 4793609
Synopsis: 1 Gb switch: ADISC ACC has a different Port WWN (causing a TIMEOUT, TRANS ERROR).
- 4781302
Synopsis: PSX-1000 + 1Gb sunswitch receives constant RSCN activity.
- 4753833
Synopsis: SNMP Temperature sensor shows exactly double the actual value.
- 4774241
Synopsis: ioctl FCSMIO_CMD failing.
- 4766170
Synopsis: SunSwitch 1G buffer credit ports panic when switch is cascaded over distance.
- 4811634
Synopsis: FC switch exceeds GA_NXT payload length = ssd "timeout", "tran_err" and IO stall.
- 475377
Synopsis: 1Gb switch with upgraded FW shows degraded mode of operation.

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>

