



Cisco MDS 9134 Multilayer Fabric Switch Hardware Release Notes

For Installation in a Sun™ Storage Area Network

Sun Microsystems, Inc.
www.sun.com

Part No. 820-2855-10
November 2007, Revision A

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

Copyright 2007 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, Java, docs.sun.com, StorEdge, StorageTek, FlexLine, 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 2007 Sun Microsystems, Inc., 4150 Network Circle, Santa Clara, Californie 95054, États-Unis. Tous droits réservés.

Sun Microsystems, Inc. possède les droits de propriété intellectuelle relatifs à la technologie décrite dans ce document. En particulier, et sans limitation, ces droits de propriété intellectuelle peuvent inclure un ou plusieurs des brevets américains listés sur le site <http://www.sun.com/patents>, un ou les plusieurs brevets supplémentaires ainsi que les demandes de brevet en attente aux États-Unis et dans d'autres pays.

Ce document et le produit auquel il se rapporte sont protégés par un copyright et distribués sous licences, celles-ci 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.

Tout logiciel tiers, sa technologie relative aux polices de caractères, comprise, est protégé par un copyright et licencié par des fournisseurs de Sun.

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

Sun, Sun Microsystems, le logo Sun, Java, AnswerBook2, docs.sun.com, StorEdge, StorageTek, FlexLine, et Solaris sont des marques de fabrique ou des marques déposées de Sun Microsystems, Inc. aux États-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 États-Unis et dans d'autres pays. Les produits portant les marques SPARC sont basés sur une architecture développée par Sun Microsystems, Inc.

L'interface utilisateur 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 dans la recherche et le développement du concept des interfaces utilisateur visuelles ou graphiques pour l'industrie informatique. Sun détient une licence non exclusive de Xerox sur l'interface utilisateur graphique Xerox, cette licence couvrant également les licenciés de Sun implémentant les interfaces utilisateur graphiques OPEN LOOK et se conforment en outre aux licences écrites de Sun.

LA DOCUMENTATION EST FOURNIE "EN L'ÉTAT" ET TOUTES AUTRES CONDITIONS, DÉCLARATIONS ET GARANTIES EXPRESSES OU TACITES SONT FORMELLEMENT EXCLUES DANS LA LIMITE DE LA LOI APPLICABLE, Y COMPRIS NOTAMMENT TOUTE GARANTIE IMPLICITE RELATIVE À LA QUALITÉ MARCHANDE, À L'APTITUDE À UNE UTILISATION PARTICULIÈRE OU À L'ABSENCE DE CONTREFAÇON.



Cisco MDS 9134 Multilayer Fabric Switch Hardware Release Notes

This document contains important information about the Cisco MDS 9134 34-port Multilayer Fabric Switch hardware installed in Sun storage area networks (SANs).

Read this document so that you are aware of issues or requirements that can affect the installation and operation of the Cisco MDS 9134 switch in a Sun SAN.

Note – Sun is not responsible for the availability of third-party web sites mentioned in this document. Sun does not endorse and is not responsible or liable for any content, advertising, products, or other materials that are available on or through such sites or resources. Sun will not be responsible or liable for any actual or alleged damage or loss caused by or in connection with the use of or reliance on any such content, goods, or services that are available on or through such sites or resources.

This document contains the following sections:

- [“Product Features” on page 2](#)
- [“Supported Software” on page 2](#)
- [“Supported Management Software” on page 3](#)
- [“Supported Hardware” on page 4](#)
- [“Downloading and Installing the Firmware” on page 6](#)
- [“Related Documentation” on page 7](#)
- [“Service Contact Information” on page 7](#)

Product Features

The Cisco MDS 9134 32-port Multilayer Fabric Switch provides up to 32 4-Gbps Fibre Channel ports and two 10-Gbps Fibre Channel ports in a one rack unit (1RU) chassis. A port activation license allows you to add an extra eight ports to the original 24-port configuration for a total of 32 4-Gbps ports. Another port activation license will allow you to activate the two 10-Gbps Fibre Channel ports for a total of 34 active ports.

The Cisco MDS 9134 switch can be used as a stand-alone switch or stacked together via copper X2 transceivers for up to 64 4-Gbps ports.

Note – Optical X2 transceivers can also be used to stack the Cisco MDS 9134 switches together.

The part numbers for the optical and copper X2 transceivers are as follows:

- Cisco 10 Gbps Fiber Channel-short wavelength X2 SFP: SG-XSWCS-10G-X2S-Z
- Cisco 10 Gbps Fiber Channel-long wavelength X2 SFP: SG-XSWCS-10G-X2L-Z

Supported Software

This section describes the firmware and operating system requirements for the Cisco MDS 9134 switch.

Firmware Requirements

The Cisco MDS 9134 Hardware requires SAN OS rev 3.2(1a) (minimum) which is delivered as patch 126488-03 and available from SunSolveSM. See [“Downloading and Installing the Firmware” on page 6](#) for more information.

Operating System Requirements

The following operating systems running on hosts on the SAN are compatible with the Cisco MDS 9134 switch:

Solaris

- Solaris 9 Update 1 or higher for SPARC
- Solaris 10 for SPARC and x86

Linux

- Red Hat Enterprise Linux 4.0 (32-bit/64-bit)
- SuSE Linux 9 Professional Community Edition (32-bit/64-bit)
- SuSE Linux 10 Professional Community Edition (32-bit/64-bit)

Microsoft Windows

- Microsoft Windows Server 2003 (32-bit/64-bit)

Other

- HP/UX 11.i and 11.23
- IBM AIX 5.2 and 5.3
- IBM z/OS

Supported Management Software

You can manage the Cisco MDS 9134 switch using any of the following software management tools.

- Cisco MDS 9000 family CLI
- Cisco Quick Configuration wizard
- Cisco Fabric Manager Release 3.2(1a) or higher
- Application programming interface (API) for integration with third-party and user-developed management tools

If you need information about these tools, see the Cisco product documentation at:

http://www.cisco.com/en/US/support/tsd_documentation.html

Supported Hardware

This section lists the hardware that is compatible with the Cisco MDS 9134 switch.

Supported Switches and Directors

The Cisco MDS 9134 switch interoperates with the Cisco MDS 9000 family of products. For more information, see Cisco's interoperability support matrix located at <http://www.cisco.com/>.

Supported Storage Platforms

The Cisco MDS 9134 switch is compatible with the following storage platforms:

- Sun StorEdge™ 3510, 3511 FC arrays
- Sun StorEdge 6120 and 6130 arrays
- Sun StorageTek™ 6140 and 6540 arrays
- Sun StorEdge 6320 system
- Sun StorageTek FlexLine™ 380 array
- Sun StorEdge Fibre Channel 9840A, 9840B, 9840C, 9940A, 9940B, LTO-2, LTO-3, and SDLT 600 FC tape drives
- Sun StorEdge 9910, 9960, 9970, 9980, 9985, 9990
- Sun StorEdge FC420 FC-SCSI Bridge for L25 and L100 tape libraries with the SG-XFCCARD2-C LVD SCSI to Fibre Channel Card Quantum or the SG-XFC420CARD-MOD Fibre Channel / LVD Internal Bridge
- FC Robots: L180, L700j, L1400M, SL500, L500

Supported HBAs

The Cisco MDS 9134 switch is compatible with the following HBAs:

- SG-XPCIE2FC-EB4-Z
- SG-XPCIE20FC-NEM-Z
- SG-XPCI2FC-QF2 and SG-XPCI2FC-QF2-Z
- SG-XPCI1FC-QF2

- SG-XPCI1FC-QLC and SG-XPCI1FC-QLC-Z (Maximum of two cascaded switches between devices)
- SG-XPCI1FC-EM2 and SG-XPCI2FC-EM2
- SG-XPCI1FC-QF4 and SG-XPCI2FC-QF4
- SG-XPCIE1FC-QF4 and SG-XPCIE2FC-QF4
- SG-XPCI1FC-EM4-Z and SG-XPCI2FC-EM4-Z
- SG-XPCIE1FC-EM4 and SG-XPCIE2FC-EM4
- SG-XPCIE2FC-QB4-Z

Supported Server Platforms

The Cisco MDS 9134 switch is compatible with the following Sun servers:

x64/x86 Systems

- Sun Fire™ V40z
- Sun Fire x2100
- Sun Fire x2200 (M2)
- Sun Fire x4100 (M2) and x4200 (M2)
- Sun Fire x4600 (M2)
- Sun Fire 8000 Modular System

SPARC Servers

- Sun Fire T1000/T2000
- Sun Fire V1280/Netra 1280
- Sun Fire Netra 240
- Sun Fire V210/V240/V250
- Sun Fire V245/V445
- Sun Fire V440
- Sun Fire V480
- Sun Fire V490
- Sun Fire V880
- Sun Fire V890
- Sun Fire 4800/4810/6800

- Sun Fire 2900
- Sun Fire 12k/15k/20k/25k
- Sun Enterprise™ 4900/6900

Downloading and Installing the Firmware

This section provides instructions for downloading and installing the Cisco MDS 9000 SAN-OS firmware.

Note – Download the latest version of the firmware to ensure proper compatibility.

▼ To Download and Install the Patch

Use the following procedure to retrieve Cisco MDS 9000 SAN-OS revision.

1. Access the SunSolve web site at:

<http://sunsolve.sun.com>

2. Accept the terms and conditions of the license agreement.

3. Click Patches and Updates under the Support category.

4. Type Patch ID 126488-xx under PatchFinder and click Find Patch.

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

5. Verify that you have retrieved the correct patch.

6. Print the README file that contains installation instructions and any special guidelines.

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

Download Patch (*nn,nnn,nnn* bytes) HTTP FTP

8. When you have finished downloading the patch, install the patch by following the instructions in the patch README file.

Related Documentation

For more information about the Cisco MDS 9134 switch, refer to the following documents:

- Cisco MDS 9000 Family CLI Configuration Guide, Release 3.x
- Cisco MDS 9000 Family Software Upgrade and Downgrade Guide
- Cisco MDS 9000 Family Fabric Manager Configuration Guide, Release 3.x

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>

Free Manuals Download Website

<http://myh66.com>

<http://usermanuals.us>

<http://www.somanuals.com>

<http://www.4manuals.cc>

<http://www.manual-lib.com>

<http://www.404manual.com>

<http://www.luxmanual.com>

<http://aubethermostatmanual.com>

Golf course search by state

<http://golfingnear.com>

Email search by domain

<http://emailbydomain.com>

Auto manuals search

<http://auto.somanuals.com>

TV manuals search

<http://tv.somanuals.com>