



Brocade Fabric Operating System Firmware Release Notes

5.0.4a Firmware

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Brocade Fabric Operating System Firmware Release Notes, 5.0.4a Firmware

This document contains important information about the Brocade Fabric Operating Systems (Fabric OS) firmware for installation in Sun storage area networks (SANs). This Brocade Fabric OS firmware can be used with the Brocade SilkWorm 12000 director. Read this document so that you are aware of issues or requirements that can affect the installation and operation of this product.

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This document contains the following sections:

- [“Features in This Release” on page viii](#)
- [“Supported Software and Hardware” on page viii](#)
- [“Downloading and Installing Patches” on page xii](#)
- [“Known Issues and Bugs” on page xiii](#)
- [“Resolved Issues and Bugs” on page xiv](#)
- [“Related Documentation” on page xiv](#)
- [“Service Contact Information” on page xv](#)

Features in This Release

For a list of the new features introduced in this release, refer to the Brocade document *Fabric OS v5.0.4a Release Notes v1.0*, available with the Brocade Fabric Operating System 5.0.4a patch 119552-03. For more information see, [“To Download and Install the Patches” on page xiii](#).

Note – The *Brocade Fabric OS v5.0.4a Release Notes* are also available from Brocade online at <http://www.brocadeconnect.com/index.jsp>.

A login is required, but registration is free with a valid Brocade switch World Wide Name (WWN).

Supported Software and Hardware

This section contains the following topics:

- [“Supported Host Software” on page viii](#)
- [“Supported Hardware” on page ix](#)
- [“Fabric OS \(Switch Firmware\) Requirements” on page xii](#)

Supported Host Software

This section lists the latest supported host software.

Basic Operating System Requirements

Solaris

- Minimum: Solaris™ 8 Operating System (OS) 04/01 with the latest security patches
- Solaris 9 OS
- Solaris 10 for SPARC
- Solaris 10 for x64/x86

Linux

- Red Hat Enterprise Linux 3.0 OS (IA32, AMD64)
- Red Hat Enterprise Linux 4.0 OS (IA32, AMD64)
- SuSE Linux Enterprise Server 8 OS (IA32, AMD64)
- SuSE Linux Enterprise Server 9 OS (IA32, AMD64)

Microsoft Windows

- Windows Server 2000 (IA32)
- Windows Server 2003 (IA32, AMD64)

SAN Foundation

- Sun StorEdge™ SAN Foundation software, minimum 4.4.6 release

Brocade Management Software Requirements

Several options are available for managing the SilkWorm 12000 director. The following is a list of the available options and any operating requirements:

- Advanced WebTool v.5.0.1 - requires Mozilla™ 1.6
- Java™ Plug-in 1.4.2 (minimum version)
- Fabric Manager v.5.0
- Application programming interface (API)
- Telnet and Simple Network Management Protocol (SNMP) management access

Supported Hardware

The following is a list of the storage devices, host bus adapters (HBAs), and servers supported by the SilkWorm 12000 director running Brocade Fabric Operating System 5.0.4a.

Note – If the device you want to connect is not listed in the following section, check the Release Notes for your HBA or storage device or, contact your Sun account representative to see if support for your device has been added.

Supported Storage Platforms

- Sun StorEdge™ 3510 and 3511 FC arrays
- Sun StorEdge 6120 and 6130 arrays

- Sun StorEdge T3 array with full fabric
- Sun StorEdge 6320 system
- Sun StorEdge 6920 system
- Sun StorEdge 39X0 switchless systems
- Sun StorEdge Fibre Channel 9840B, 9840C, 9940B, SDLT 600, LTO-2 and LTO-3 FC tape drives
- Sun StorEdge FC420 FC-SCSI Bridge for L25 and L100 tape libraries with the SG-XFCCARD2-C LVD SCSI to Fibre Channel Card or the SG-XFC420CARD-MOD Fibre Channel / LVD Internal Bridge
- C4 tape library with the SG-XFCCARD2-C LVD SCSI to Fibre Channel Card
- FC Robots: L180/L700 1G (FL mode), L180, L700 2G (Full Fabric), L500 2G (Full Fabric), L8500 2G (Full Fabric)

Supported Host Bus Adapters

- SG-XPCI2FC-QF2
- SG-XPCI1FC-QF2
- X6757A
- SG-XPCI1FC-QL2
- SG-XPCI1FC-QLC
- SG-XPCI1FC-EM2
- SG-XPCI2FC-EM2
- SG-XPCI1FC-QF4
- SG-XPCI2FC-QF4
- SG-XPCIE1FC-QF4
- SG-XPCIE2FC-QF4
- SG-XPCIE1FC-EM4
- SG-XPCIE2FC-EM4

Supported Server Platforms

x64/x86 Systems

- Sun Fire V20z/V40z
- Sun Fire V60x/V65x
- Sun Fire X2100 and X4100/4200

Work Group Servers

- Sun Enterprise 10000
- Sun Enterprise E220R
- Sun Enterprise E250
- Sun Enterprise E3x00/4x00/5x000/6x00
- Sun Enterprise E420R
- Sun Enterprise E450
- Sun Fire 12k/15k/E20k/E25k
- Sun Fire 280R
- Sun Fire X2100/X4100/X4200 servers
- Sun Fire 2900/4900/6900
- Sun Fire 3800/4800/4810/6800
- Sun Fire T1000/T2000
- Sun Fire V1280/Netra 1280
- Sun Fire V210 and V240
- Sun Fire V250
- Sun Fire V440
- Sun Fire V480
- Sun Fire V490
- Sun Fire V880
- Sun Fire V890

Fabric OS (Switch Firmware) Requirements

[TABLE 1](#) summarizes the versions of the Brocade Fabric OS that are supported in conjunction with this release. Use the current software release versions to optimize the benefits of a SAN.

TABLE 1 Minimum Brocade Fabric OS Requirements

Description	SilkWorm 2000 Series	SilkWorm 3200 and 3800	SilkWorm 3250, 3850, 3900 and 24000	SilkWorm 4100	SilkWorm 200E and 48000	SilkWorm 12000	Brocade Fabric Manager
General compatibility	2.6.1	3.1.0	4.1.0	4.4.0b	5.0.1a	4.1.0	5.0
With secure fabric enabled	2.6.1	3.1.2	4.1.0	4.4.0b	5.0.1a	4.1.0	5.0
Recommended software versions	2.6.2	3.2.0	5.1.0a	5.1.0a	5.1.0a	5.0.4a	5.0

Note – SilkWorm 3250, 3850, and 24000 are supported by Fabric OS v4.2.0 or later.
SilkWorm 3250, 3850, and 24000 are supported by Fabric Manager 4.1.1 or later.
SilkWorm 3900 is supported by Fabric OS v4.1.0 or later.
SilkWorm 4100 is supported by Fabric Manager 4.4.0 or later.
SilkWorm 200E and 48000 are supported by Fabric Manager 5.0 or later.

Downloading and Installing Patches

This section provides instructions for downloading and installing patches for the SilkWorm directors. When downloading the Brocade Fabric OS firmware used with the Brocade SilkWorm 12000 director, use patch 119552-03.

▼ To Download and Install the Patches

Use the following procedure to retrieve the patches for your OS and the patch for the 5.0.4a firmware.

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. For each patch that you want to download, following these steps:

a. Under PatchFinder, type the patch ID and click Find Patch.

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

b. Verify that you have retrieved the correct patch.

c. Print the page by doing one of the following:

- Print the page as it is displayed.
- Click Printer Friendly Page, and then print the page.

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

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

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

e. When you have finished downloading all the patches, install the patches by following the instructions in each patch README file.

Known Issues and Bugs

- **Bug 6411928:** Brocade switch ports must be disabled and enabled before using port 2 or port 4 on Sun StorEdge 6130 and Sun StorEdge 6140 as I/O port.

Workaround: None at this time.

- **Bug 6329784:** If you add and remove initiators from zones in the fabric, they are not dynamically detected.

Workaround: None at this time.

- **Bug 6395973:** Brocade switch: subnet mask is not saved in the configuration file.
Workaround: None at this time.
- **Bug 6334459:** The following port login errors appear in the system log when you establish a session with a target (3500 JBOD).

```
PLOGI to 104b6 failed state=Packet Transport error.
```

If the target is connected to a Brocade SilkWorm 4100 switch, the PLOGI errors are logged each time you reboot the OS.

Workaround: None at this time.
- **Bug 6303089:** Brocade FOS 4.4.0b, 4.4.0e, and 5.0.1 fails to forward a port login (PLOGI) application client container (ACC) to the host.
Workaround: None at this time.
- **Bug 6238769:** Brocade switches (FabOS 4.x) can be crashed/rebooted with break sequence on console port.
Workaround: None at this time.

Resolved Issues and Bugs

The following bugs have been resolved since the last firmware release.

- **Bug 6354962:** Fabric/host ports from the Sun StorEdge 6140 array fails to log in to the switch as CSM2 type.
- **Bug 6336972:** Brocade 3800 and 3850 can incorrectly route frames, causing loss of storage access.

Related Documentation

The *Brocade Fabric OS v5.0.4a Release Notes* are available with the Brocade Fabric Operating System 5.0.4a patch, 119552-03. For more information see, [“To Download and Install the Patches” on page xiii](#).

Note – The *Brocade Fabric OS v5.0.4a Release Notes* are also available from Brocade online at: <http://www.brocadeconnect.com/index.jsp>.

A login is required, but registration is free with a valid Brocade switch WWN.

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>

