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## Release Notes for Cisco MDS 9000 Family Fabric Manager Release 3.1(2c)

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**Release Date:** April 13, 2007

**Text Part Number:** OL-12562-02 B0

This document describes the new features, limitations, and caveats for Cisco MDS 9000 Family Fabric Manager Release 3.1(2c). Use this document in conjunction with documents listed in the “[Related Documentation](#)” section on page 6.



**Note**

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Cisco Fabric Manager 3.1(2c) works in conjunction with Cisco MDS SAN-OS Releases 2.x and higher including Release 3.1(1). All release notes may have been updated with new information on restrictions and caveats. For the most recent information on your corresponding Cisco MDS SAN-OS release, refer to the following website:

[http://www.cisco.com/en/US/products/hw/ps4159/ps4358/prod\\_release\\_notes\\_list.html](http://www.cisco.com/en/US/products/hw/ps4159/ps4358/prod_release_notes_list.html)

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Table 1 shows the online change history for this document.

**Table 1** Online History Change

Revision	Date	Description
A0	04/13/2007	Created release notes.
B0	06/11/2007	Added “ <a href="#">Maximum Number of Flows Increased</a> ” to the New Features section.

## Contents

This document includes the following sections:



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- [Introduction, page 2](#)
- [Upgrading Your Version of Cisco Fabric Manager, page 2](#)
- [Minimum Hardware Requirements, page 3](#)
- [New Features in Cisco MDS Fabric Manager Release 3.1\(2c\), page 3](#)
- [Limitations and Restrictions, page 4](#)
- [Caveats, page 5](#)
- [Related Documentation, page 6](#)
- [Obtaining Documentation, Obtaining Support, and Security Guidelines, page 7](#)

## Introduction

The Cisco Fabric Manager provides an alternative to the command-line interface (CLI) for most switch configuration commands. Fabric Manager provides powerful Fibre Channel troubleshooting tools. These in-depth health and configuration analysis capabilities leverage unique MDS 9000 switch capabilities: Fibre Channel Ping and Traceroute.

The Cisco Fabric Manager includes these management applications:

- Fabric Manager (client and server)
- Device Manager
- Performance Manager
- Fabric Manager Web Services

For detailed information on using Cisco Fabric Manager to configure a Cisco MDS 9000 Family switch, refer to the *Cisco MDS 9000 Family Fabric Manager Configuration Guide*. For information on using the CLI to configure a Cisco MDS 9000 Family switch, refer to the *Cisco MDS 9000 Family CLI Configuration Guide* or the *Cisco MDS 9020 Switch Configuration Guide and Command Reference*.

## Upgrading Your Version of Cisco Fabric Manager

To upgrade your version of Cisco Fabric Manager, or install Fabric Manager for the first time, follow these steps:

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- Step 1** If you have installed a previous version of Cisco MDS Fabric Manager, uninstall the software before proceeding. To uninstall, go to **Start > Programs > Cisco MDS 9000 > Uninstall**.
- Step 2** Download **m9000-fm-3.1.2c.jar** from the Software Center on Cisco.com (<http://www.cisco.com/cgi-bin/tablebuild.pl/mds-fm>). You must have a CCO account to access the files on Software Center.



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**Note** As of Cisco MDS SAN-OS Release 3.1, Cisco Fabric Manager requires Java 1.5.

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- Step 3** Launch the Fabric Manager installation program by doing one of the following:
- a. Navigate to the folder where you have downloaded the file and double-click it.
  - b. Open the file using Internet Explorer.

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c. Enter `java -jar m9000-fm-3.1.2c.jar` on the Windows or UNIX command line.

- Step 4** Select an installation folder for Fabric Manager on your workstation. The default location is C:\Program Files\Cisco Systems\MDS 9000 for Windows. On a Solaris or Linux machine, the installation path name is /usr/local/cisco\_mds9000 or \$HOME/cisco\_mds9000, depending on the permissions of the user performing the installation.



**Note** The Fabric Manager Server and the Fabric Manager Client must be able to communicate with each other at all times. They can be installed on different workstations or the same workstation.

- Step 5** Check the **Use Global Device Aliases** in place of the FC Aliases check box if you want to use global device aliases or replace existing per VSAN FC aliases with global device aliases.

- Step 6** Check the **Don't install and run FM Server** check box if you are installing just the Fabric Manager Client on a remote workstation.



**Note** For other methods and details on upgrading, downgrading, and uninstalling Cisco Fabric Manager, refer to the *Cisco MDS 9000 Family Fabric Manager Configuration Guide* and the *Cisco MDS 9000 Family Fabric Manager Quick Configuration Guide*.

- Step 7** Click Finish to complete the Cisco Fabric Manager installation.

## Minimum Hardware Requirements

For a PC running Fabric Manager Server on large fabrics (1000 or more end devices), we recommend you use a Dual Core/Dual CPU high-speed system with 2 GB of RAM and 10 GB of free disk space.

## New Features in Cisco MDS Fabric Manager Release 3.1(2c)

This section describes the new features introduced in Cisco Fabric Manager Release 3.1(2c).

### Install Option to Use Oracle Express Database with Cisco Fabric Manager

As of Cisco SAN-OS Release 3.1(2b), you can install Oracle Express as the database for use with Cisco Fabric Manager. We recommend the Oracle Express database option for all users who are running Performance Manager on large fabrics (1,000 or more end devices).



**Note** You must download and install the Oracle Express database separately because Cisco Fabric Manager does not automatically install it. However, if you have Oracle installed on a PC, you should not install the Oracle Express database on the same PC because the installation will fail. In this instance, Fabric Manager must use the Hypersonic SQL database.

Refer to the *Cisco MDS 9000 Family Fabric Manager Configuration Guide* for installation and configuration instructions for the Oracle Express database.

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## **User Interface Changes in Fabric Manager**

The Deactivate button has been moved. Deactivate is now a menu choice on a popup menu that is accessible from the Edit Local Full Zone Database window.

## **Maximum Number of Flows Increased**

As on Cisco Fabric Manager Release 3.1(2c), the Flow Creation wizard has increased the maximum number of flows per switch from 2048 to 10000.

## **Limitations and Restrictions**

There are no limitations and restrictions for Cisco Fabric Manager Release 3.1(2c).

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## Caveats

This section lists the open and resolved caveats for this release. Use [Table 2](#) to determine the status of a particular caveat. In the table, “O” indicates an open caveat and “R” indicates a resolved caveat.

**Table 2** *Open Caveats and Resolved Caveats Reference*

DDTS Number	Software Release (Open or Resolved)	
	3.1(2b)	3.1(2c)
Severity 3		
<a href="#">CSCsh21262</a>	O	R
<a href="#">CSCsi33396</a>	O	R

## Resolved Caveats

- [CSCsh21262](#)

**Symptom:** Using unknown usernames or passwords in Cisco Fabric Manager can result in multiple Access Control Server (ACS) accesses and can lock users out of the fabric, if your ACS policy disables users when multiple incorrect passwords are used in succession.

**Workaround:** This issue is resolved.

- [CSCsi33396](#)

**Symptom:** Installation of the Oracle Express database fails if you are running Microsoft Windows 2000 and using the Hypersonic SQL database with Cisco Fabric Manager.

**Workaround:** This issue is resolved.

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## Related Documentation

The documentation set for the Cisco MDS 9000 Family includes the following documents. To find a document online, use the Cisco MDS SAN-OS Documentation Locator at:

[http://www.cisco.com/en/US/products/ps5989/products\\_documentation\\_roadmap09186a00804500c1.html](http://www.cisco.com/en/US/products/ps5989/products_documentation_roadmap09186a00804500c1.html).

For information on IBM TotalStorage SAN Volume Controller Storage Software for the Cisco MDS 9000 Family, refer to the IBM TotalStorage Support website:

<http://www.ibm.com/storage/support/2062-2300/>

## Release Notes

- *Cisco MDS 9000 Family Release Notes for Cisco MDS SAN-OS Releases*
- *Cisco MDS 9000 Family Release Notes for Storage Services Interface Images*
- *Cisco MDS 9000 Family Release Notes for Cisco MDS SVC Releases*
- *Cisco MDS 9000 Family Release Notes for Cisco MDS 9000 EPLD Images*

## Compatibility Information

- *Cisco MDS 9000 SAN-OS Hardware and Software Compatibility Information*
- *Cisco MDS 9000 Family Interoperability Support Matrix*
- *Cisco MDS Storage Services Module Interoperability Support Matrix*
- *Cisco MDS SAN-OS Release Compatibility Matrix for IBM SAN Volume Controller Software for Cisco MDS 9000*
- *Cisco MDS SAN-OS Release Compatibility Matrix for Storage Service Interface Images*

## Regulatory Compliance and Safety Information

- *Regulatory Compliance and Safety Information for the Cisco MDS 9000 Family*

## Hardware Installation

- *Cisco MDS 9124 Multilayer Fabric Switch Quick Start Guide*
- *Cisco MDS 9500 Series Hardware Installation Guide*
- *Cisco MDS 9200 Series Hardware Installation Guide*
- *Cisco MDS 9100 Series Hardware Installation Guide*
- *Cisco MDS 9020 Fabric Switch Hardware Installation Guide*

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## Cisco Fabric Manager

- *Cisco MDS 9000 Family Fabric Manager Quick Configuration Guide*
- *Cisco MDS 9000 Family Fabric Manager Configuration Guide*
- *Cisco MDS 9000 Fabric Manager Online Help*
- *Cisco MDS 9000 Fabric Manager Web Services Online Help*
- *Cisco MDS 9000 Family Fabric Manager Database Schema*

## Command-Line Interface

- *Cisco MDS 9000 Family Software Upgrade and Downgrade Guide*
- *Cisco MDS 9000 Family Storage Services Module Software Installation and Upgrade Guide*
- *Cisco MDS 9000 Family CLI Quick Configuration Guide*
- *Cisco MDS 9000 Family CLI Configuration Guide*
- *Cisco MDS 9000 Family Command Reference*
- *Cisco MDS 9000 Family Quick Command Reference*
- *Cisco MDS 9020 Fabric Switch Configuration Guide and Command Reference*
- *Cisco MDS 9000 Family SAN Volume Controller Configuration Guide*

## Troubleshooting and Reference

- *Cisco MDS 9000 Family Troubleshooting Guide*
- *Cisco MDS 9000 Family MIB Quick Reference*
- *Cisco MDS 9020 Fabric Switch MIB Quick Reference*
- *Cisco MDS 9000 Family SMI-S Programming Reference*
- *Cisco MDS 9000 Family System Messages Reference*
- *Cisco MDS 9020 Fabric Switch System Messages Reference*

## Installation and Configuration Note

- *Cisco MDS 9000 Family SSM Configuration Note*
- *Cisco MDS 9000 Family Port Analyzer Adapter Installation and Configuration Note*
- *Cisco 10-Gigabit Fibre Channel X2 Transceiver Module Installation Note*

## Obtaining Documentation, Obtaining Support, and Security Guidelines

For information on obtaining documentation, obtaining support, providing documentation feedback, security guidelines, and also recommended aliases and general Cisco documents, see the monthly

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*What's New* in Cisco Product Documentation, which also lists all new and revised Cisco technical documentation, at:

<http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>

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This document is to be used in conjunction with the documents listed in the “[Related Documentation](#)” section.

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