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Cisco MDS 9000 Family Release Notes for Cisco MDS SAN-OS Release 1.0(4)

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This document describes the caveats and limitations for switches in the Cisco MDS 9000 Family. Use this document in conjunction with documents listed in the “[Related Documentation](#)” section on page 9.



Note

Release notes are sometimes updated with new information on restrictions and caveats. Refer to the following website for the most recent version of the *Cisco MDS 9000 Family Release Notes*:
http://www.cisco.com/en/US/products/hw/ps4159/ps4358/prod_release_notes_list.html

Table 1 shows the on-line change history for this document.

Table 1 On-Line History Change

Revision	Date	Description
A0	06/23/2005	Added DDTS CSCei25319

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Introduction

The Cisco MDS 9000 Family of multilayer directors and fabric switches offer intelligent fabric-switching services that realize maximum performance while ensuring high reliability levels. They combine robust and flexible hardware architecture with multiple layers of network and storage management intelligence. This powerful combination enables highly available, scalable storage networks that provide advanced security and unified management features.

The Cisco MDS 9000 Family provides intelligent networking features such as multiprotocol and multitransport integration, virtual SANs (VSANs), advanced security, sophisticated debug analysis tools, and unified SAN management.

System Requirements

This section describes the system requirements for Cisco MDS SAN-OS Release 1.0(4) and includes the following topics:

- [Hardware Supported, page 22](#)
- [Determining the Software Version, page 3](#)
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Hardware Supported

[Table 2](#) lists the hardware components supported on the Cisco MDS 9000 Family and the minimum software version required. See the [“Determining the Software Version”](#) section on [page 3](#).

Table 2 Cisco MDS 9000 Family Supported Hardware Modules and Minimum Software Requirements

Component	Part Number	Description	Applicable Products
Software	M9500-SF1EK9-1.0.3a	MDS 9500 supervisor/fabric-I, enterprise software	MDS 9509 only
	M9200-EK9-1.0.3a	MDS9216 enterprise software	MDS 9216 only
Chassis	DS-C9509	MDS 9509 director, base configuration (9-slot chassis, dual 2500W AC power supplies, and dual supervisors — SFPs sold separately)	MDS 9509 only
	DS-C9216-K9	MDS 9216 16-port modular fabric switch (includes sixteen 1 / 2-Gbps Fibre Channel ports, power supply, and expansion slot — SFPs sold separately)	MDS 9216 only
Supervisor modules	DS-X9530-SF1-K9	MDS 9500 supervisor/fabric-I, module	MDS 9509 only

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Table 2 Cisco MDS 9000 Family Supported Hardware Modules and Minimum Software Requirements

Component	Part Number	Description	Applicable Products
Switching modules	DS-X9016	MDS 9000 16-port 1/2-Gbps Fibre Channel module (SFPs sold separately)	MDS 9509 and 9216
	DS-X9032	MDS 9000 32-port 1/2-Gbps Fibre Channel module (SFPs sold separately)	
LC-type fiber-optic SFP ¹	DS-SFP-FC-2G-SW	1/2-Gbps Fibre Channel — short wave SFP	MDS 9509 and 9216
	DS-SFP-FC-2G-LW	1/2-Gbps Fibre Channel — long wave SFP	
Power supplies	DS-CAC-845W	AC Power supply for MDS 9216	MDS 9216 only
	DS-CAC-2500W	2500W AC power supply	MDS 9509 only
	DS-CAC-4000W-US	4000W ² AC power supply for US (cable attached)	
	DS-CAC-4000W-INT	4000W AC power supply international (cable attached)	
	DS-CDC-2500W	2500W DC power supply	
CompactFlash	MEM-MDS-FLD512M	MDS 9500 supervisor CompactFlash disk, 512MB	MDS 9509 only
Port analyzer adapter	DS-PAA	A standalone Fibre Channel-to-Ethernet adapter that allows for simple, transparent analysis of Fibre Channel traffic in a switched fabric.	MDS 9509 and 9216

1. SFP = small form factor pluggable
2. W = Watt

Determining the Software Version



Note

We strongly recommend that you use the latest available software release for all Cisco MDS 9000 Family products.

To determine the version of the Cisco SAN-OS software currently running on a Cisco MDS 9000 Family switch, log in to the switch and enter the **show version EXEC** command.

Feature Set

This Cisco MDS SAN-OS Release 1.0(4) software is packaged in feature sets (also called software images) depending on the platform. The Cisco MDS SAN-OS software feature sets available for the Cisco MDS 9000 Family include Ethernet, Fibre Channel (1 Gbps and 2 Gbps), SNMP, and IP packets.

New Features in Release 1.0(4)

SAN-OS Release 1.0(4) is a maintenance release for switches in the Cisco MDS 9000 Family. See the “[Caveats](#)” section on page 5 for details on closed and outstanding caveats and limitations.

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Note

The *Release Notes* are specific to this maintenance release. For the rest of the 1.0(4) documentation, refer to the Release 1.0(3a) document set (see the [“Related Documentation” section on page 9](#)).

Limitations and Restrictions

The following limitations and restrictions apply to all switches in the Cisco MDS 9000 Family.

COM 1 Port

The COM1 port is not currently available in Cisco MDS 9000 Family switches, but in the future will connect to an external serial communication device, such as a modem.

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Caveats

This section lists the caveats and corrected caveats for this release. Use [Table 3](#) to determine the status of a particular caveat. In the table, “R” indicates a resolved caveat, and “O” indicates an open caveat.

Table 3 Release Caveats and Caveats Corrected Reference

DDTS Number	Software Release (Resolved or Open)	
	1.0(3a)	1.0(4)
Severity 2		
CSCdz49739	R	R
CSCea11544	R	R
CSCdz47813	R	R
CSCdz40286	R	R
CSCdz41824	R	R
CSCdz62706	R	R
CSCdz49589	R	R
CSCdz31332	O	O
CSCea34106		O
CSCea62969		O
CSCei25319		O
Severity 3		
CSCdz40837	R	R
CSCdz39137	R	R
CSCdz38419	R	R
CSCdz25873	R	R
CSCdz42206	R	R
CSCdz39924	R	R
CSCdz40770	R	R
CSCdz34906	R	R
CSCdz16649	R	R
CSCdz80310	R	R
CSCdz30806	R	R
CSCdz36297	R	R
CSCdz41227	R	R
CSCdz73481	R	R
CSCdz73186	R	R
CSCdz62711	R	R
CSCdz81955	R	R
CSCdz76025	R	R

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Table 3 Release Caveats and Caveats Corrected Reference

DDTS Number	Software Release (Resolved or Open)	
	1.0(3a)	1.0(4)
CSCdz38248	R	R
CSCdy77777	R	R
CSCdz40221	R	R
CSCdz29899	R	R
CSCdz80007	R	R
CSCea04957	R	R
CSCea43130	R	R
CSCdy71186	O	R
CSCdz41155	O	R
CSCdz42325	O	R
CSCea46162		R
CSCdz52654		R
CSCdz55244		R
CSCdz81142		R
CSCdz12179		O
CSCdz67484	O	O
CSCea40555	O	O
CSCdz43707	O	O
CSCdz43106	O	O
CSCea47778	O	O

Resolved Caveats

- [CSCdy71186](#)

Symptom: When you bring down a range of FL ports, there is a delay of four (4) seconds. This problem does not affect switch operation.

Please use the following URL for further information:

<http://www.cisco.com/cgi-bin/bugtool/onebug.pl?bugid=CSCdy71186>

- [CSCdz41155](#)

Symptom: The **show logging level** command does not display the configured levels for some MDS services like system manager, RDL, and FLOGI.

Please use the following URL for further information:

<http://www.cisco.com/cgi-bin/bugtool/onebug.pl?bugid=CSCdz41155>

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- CSCdz42325

Symptom: When the switch boots for the first time and you configure the initial setup dialogue, or if you issue the **write erase** command and then reboot the switch, the setup process creates the configuration based on the input that you provide for the configuration.

Please use the following URL for further information:
<http://www.cisco.com/cgi-bin/bugtool/onebug.pl?bugid=CSCdz42325>
- CSCea46162

Symptom: When you perform a traceroute operation from the Fabric Manager on a switch running SAN-OS Release 1.0.3a, it returns a *no route to host or ISL* error. The same operation succeeds when performed using the CLI.

Please use the following URL for further information:
<http://www.cisco.com/cgi-bin/bugtool/onebug.pl?bugid=CSCdz46162>
- CSCdz52654

Symptom: During a fabric configuration analysis, the Fabric Manager issues a Java NULL pointer error.

Please use the following URL for further information:
<http://www.cisco.com/cgi-bin/bugtool/onebug.pl?bugid=CSCdz52654>
- CSCdz55244

Symptom: During fabric rediscovery, the Fabric Manager application gets stuck and issues a SpinLOCK error on the status bar.

Please use the following URL for further information:
<http://www.cisco.com/cgi-bin/bugtool/onebug.pl?bugid=CSCdz55244>
- CSCdz81142

Symptom: During a switching module upgrade, if you press the refresh button in the Element Manager, you may receive a Java error.

Please use the following URL for further information:
<http://www.cisco.com/cgi-bin/bugtool/onebug.pl?bugid=CSCdz81142>

Open Caveats

- CSCdz31332

Symptom: If automatic image synchronization is enabled, and the standby supervisor module is synchronizing the image from the active supervisor, the switch won't stop the user from issuing the **reload** command on the active or standby supervisor modules. This may result in a failure to synchronize the images.

Workaround: Be sure to allow sufficient time for the images to be synchronized before reloading a supervisor module.
- CSCei25319

Symptom: An error message in the log file occurs because the platform manager component passes the wrong parameter while responding to a SNMP query. In some cases, this results in the query not being responded to.

Workaround: Perform a refresh on Device Manager to clear the problem.

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- CSCdz12179

Symptom: When the Fabric Manager or Device Manager is run through VPN or any NAT scheme, a generic error occurs while adding duplicate zone members from a VPN connection.

Workaround: None. If an error occurs while running through VPN/NAT, all errors will show up as generic errors without a detailed message describing the error.
- CSCdz67484

Symptom: The Ethereal decoder incorrectly decodes the A bit in the Common Service Parameters set as *Normal*, instead of *Alternate BB_Credit Management*.

Workaround: None. The trace must be interpreted correctly.
- CSCea40555

Symptom: During an install procedure, entering **Ctrl-c** returns a message saying that the install procedure cannot be interrupted, while **Ctrl-z** returns the prompt without any message. In either case, the install procedure continues.

Workaround: None.
- CSCdz43707

Symptom: The Fabric Manager or Device Manager reports an error for all operations if the switch is multihomed (both IPFC based in-band management and the out-of-band management interface are up) and the Fabric or Device Manager was started using the IP-FC address. Typically, you will see a `notInTime window` error in the Device Manager and all sets fail.

Workaround: If the switch is multihomed, then start the Fabric or Device Manager on the switch using the out-of-band address.
- CSCdz43106

Symptom: The counter values freeze if the Device Manager port monitor window has been up and running for a long time (overnight or a few days).

Workaround: Close the frozen Device Manager window and open a new session.
- CSCea47778

Symptom: If the switch time zone is not UTC (default), the **expire** option for the **username** command returns an error. If the **expire** option is not specified, the **username** command does not have this issue.

```
switch# show clock
Mon Mar 17 18:20:28 JST 2003
switch(config)# username user1 password cisco expire
expiry date wrong
```

Workaround: While creating a user-account, temporarily change the time zone to UTC.
- CSCea34106

Symptom: If you clear a kickstart boot variable that doesn't exist and if a kickstart boot variable with the same name size as the specified variable is stored in the system, the bootvar process crashes.

Workaround: Clear the kickstart boot variable using the **no boot kickstart** command.
- CSCea62969

Symptom: Some private initiators (for example, SUN) are not properly registered with FLOGI. This results in the disks not being visible to the initiators.

Workaround: None.

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Related Documentation

Regulatory Compliance and Safety Information for the Cisco MDS 9000 Family

Quick Start Guide for the Cisco MDS 9000 Family

Cisco MDS 9200 Series Hardware Installation Guide

Cisco MDS 9500 Series Hardware Installation Guide

Cisco MDS 9000 Family Command Reference

Cisco MDS 9000 Family Fabric Manager User Guide

Cisco MDS 9000 Family Troubleshooting Guide

Cisco MDS 9000 Family System Messages Guide

Cisco MDS 9000 Family MIB Reference Guide

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Cisco provides several ways to obtain documentation, technical assistance, and other technical resources. These sections explain how to obtain technical information from Cisco Systems.

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You can access the most current Cisco documentation on the World Wide Web at this URL:

<http://www.cisco.com/univercd/home/home.htm>

You can access the Cisco website at this URL:

<http://www.cisco.com>

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Documentation CD-ROM

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http://www.cisco.com/en/US/partner/ordering/ordering_place_order_ordering_tool_launch.html

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- Nonregistered Cisco.com users can order documentation through a local account representative by calling Cisco Systems Corporate Headquarters (California, U.S.A.) at 408 526-7208 or, elsewhere in North America, by calling 800 553-NETS (6387).

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Note

If you purchased this product through a Cisco reseller, contact the reseller directly for technical support. If you purchased this product directly from Cisco, contact Cisco Technical Support at this URL:
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Cisco provides Cisco.com, which includes the Cisco Technical Assistance Center (TAC) website, as a starting point for all technical assistance. Customers and partners can obtain online documentation, troubleshooting tips, and sample configurations from the Cisco TAC website. Cisco.com registered users have complete access to the technical support resources on the Cisco TAC website, including TAC tools and utilities.

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The Cisco TAC is available to all customers who need technical assistance with a Cisco product, technology, or solution. Two types of support are available: the Cisco TAC website and the Cisco TAC Escalation Center. The type of support that you choose depends on the priority of the problem and the conditions stated in service contracts, when applicable.

We categorize Cisco TAC inquiries according to urgency:

- Priority level 4 (P4)—You need information or assistance concerning Cisco product capabilities, product installation, or basic product configuration. There is little or no impact to your business operations.
- Priority level 3 (P3)—Operational performance of the network is impaired, but most business operations remain functional. You and Cisco are willing to commit resources during normal business hours to restore service to satisfactory levels.
- Priority level 2 (P2)—Operation of an existing network is severely degraded, or significant aspects of your business operations are negatively impacted by inadequate performance of Cisco products. You and Cisco will commit full-time resources during normal business hours to resolve the situation.

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- Priority level 1 (P1)—An existing network is “down,” or there is a critical impact to your business operations. You and Cisco will commit all necessary resources around the clock to resolve the situation.

Cisco TAC Website

The Cisco TAC website provides online documents and tools to help troubleshoot and resolve technical issues with Cisco products and technologies. To access the Cisco TAC website, go to this URL:

<http://www.cisco.com/tac>

All customers, partners, and resellers who have a valid Cisco service contract have complete access to the technical support resources on the Cisco TAC website. Some services on the Cisco TAC website require a Cisco.com login ID and password. If you have a valid service contract but do not have a login ID or password, go to this URL to register:

<http://tools.cisco.com/RPF/register/register.do>

If you are a Cisco.com registered user, and you cannot resolve your technical issues by using the Cisco TAC website, you can open a case online at this URL:

<http://www.cisco.com/tac/caseopen>

If you have Internet access, we recommend that you open P3 and P4 cases online so that you can fully describe the situation and attach any necessary files.

Cisco TAC Escalation Center

The Cisco TAC Escalation Center addresses priority level 1 or priority level 2 issues. These classifications are assigned when severe network degradation significantly impacts business operations. When you contact the TAC Escalation Center with a P1 or P2 problem, a Cisco TAC engineer automatically opens a case.

To obtain a directory of toll-free Cisco TAC telephone numbers for your country, go to this URL:

<http://www.cisco.com/warp/public/687/Directory/DirTAC.shtml>

Before calling, please check with your network operations center to determine the Cisco support services to which your company is entitled: for example, SMARTnet, SMARTnet Onsite, or Network Supported Accounts (NSA). When you call the center, please have available your service agreement number and your product serial number.

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- The *Cisco Product Catalog* describes the networking products offered by Cisco Systems, as well as ordering and customer support services. Access the *Cisco Product Catalog* at this URL:

http://www.cisco.com/en/US/products/products_catalog_links_launch.html

- Cisco Press publishes a wide range of networking publications. Cisco suggests these titles for new and experienced users: *Internetworking Terms and Acronyms Dictionary*, *Internetworking Technology Handbook*, *Internetworking Troubleshooting Guide*, and the *Internetworking Design Guide*. For current Cisco Press titles and other information, go to Cisco Press online at this URL:

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<http://www.cisco.com/go/packet>
- iQ Magazine is the Cisco bimonthly publication that delivers the latest information about Internet business strategies for executives. You can access iQ Magazine at this URL:
<http://www.cisco.com/go/iqmagazine>
- Internet Protocol Journal is a quarterly journal published by Cisco Systems for engineering professionals involved in designing, developing, and operating public and private internets and intranets. You can access the Internet Protocol Journal at this URL:
http://www.cisco.com/en/US/about/ac123/ac147/about_cisco_the_internet_protocol_journal.html
- Training—Cisco offers world-class networking training. Current offerings in network training are listed at this URL:
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