



CHAPTER 16

Managing Configuration Files

This chapter describes how to initially configure switches using the configuration files so they can be accessed by other devices. This chapter includes the following sections:

- [About Flash Devices, page 16-1](#)
 - [Formatting Flash Devices and File Systems, page 16-2](#)
 - [Using the File System, page 16-2](#)
 - [Downloading Configuration Files to the Switch, page 16-7](#)

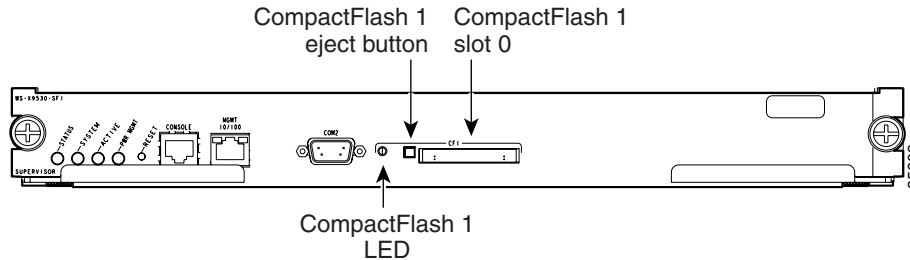
About Flash Devices

Every switch in the Cisco MDS 9000 Family contains one internal bootflash (see [Figure 16-1](#)). The Cisco MDS 9500 Series additionally contains one external CompactFlash called slot0 (see [Figure 16-1](#) and [Figure 16-2](#)).

Figure 16-1 Flash Devices in the Cisco MDS 9000 Supervisor Module



Figure 16-2 External CompactFlash in the Cisco MDS 9000 Supervisor Module



Internal bootflash:

or switching module. You have access to two locations within the internal bootflash: file system.

- The volatile: file system provides temporary storage, and it is also the default location for file system commands. Files in temporary storage (volatile:) are erased when the switch reboots.
- The bootflash: (nonvolatile storage) file system provides permanent storage. The files in bootflash: are preserved through reboots and power outages.

Formatting Flash Devices and File Systems

By formatting a Flash devices or a file system, you are clearing out the contents of the device or the file system and restoring it to its factory-shipped state.

See the [“About Flash Devices”](#) section on page 16-1 and the [“Using the File System”](#) section on page 16-2.

Using the File System

All switches in the Cisco MDS 9000 Family have one internal bootflash: that resides in the supervisor or switching module. You have access to two directories within the internal bootflash: file system.

- The volatile: directory provides temporary storage, and it is also the default. Files in temporary storage (volatile:) are erased when the switch reboots.
- The bootflash: (nonvolatile storage) directory provides permanent storage. Files in permanent storage (bootflash:) are preserved through reboots and power outages.

Cisco MDS 9500 Series directors contain an additional external CompactFlash referred to as the slot0: directory. The external CompactFlash, an optional device for MDS 9500 Series directors, can be used for storing software images, logs, and core dumps.

You can use Device Manager to perform the following functions to help you manage software image files and configuration files:

- [Flash Files](#), page 16-3
- [Creating a Directory](#), page 16-3
- [Deleting an Existing File or Directory](#), page 16-4

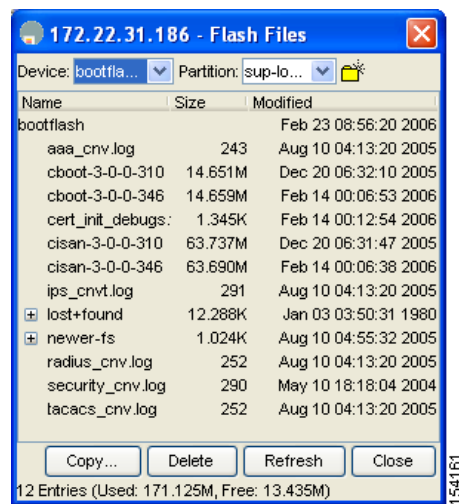
-
- [Performing Other File Manipulation Tasks, page 16-7](#)

Flash Files

Step 1 Admin > Flash File

By default, you see the bootflash directory listed for the supervisor's local partition (see [Figure 16-3](#)).

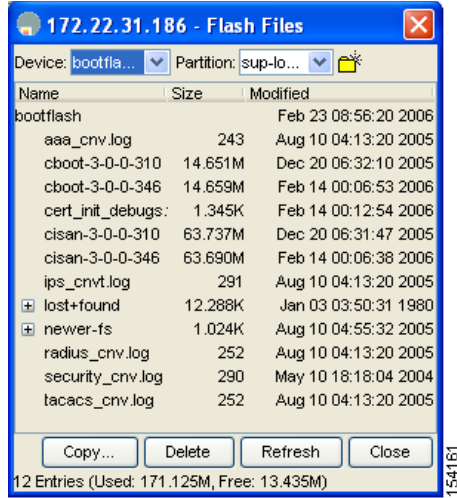
Figure 16-3 Flash Files Dialog Box



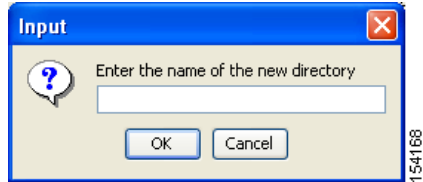
Step 2

Creating a Directory

Step 1

Figure 16-4 Flash Files Dialog Box**Step 3** Create Directory

You see the Create New Directory dialog box as shown in [Figure 16-5](#).

Figure 16-5 New Directory Dialog Box**Step 4**

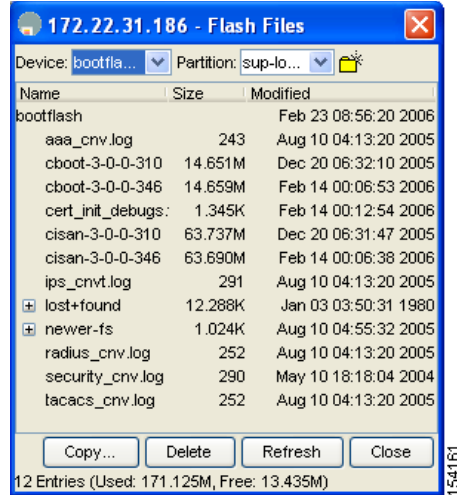
OK



Tip

Deleting an Existing File or Directory

Step 1



Step 2

Step 3

Step 4



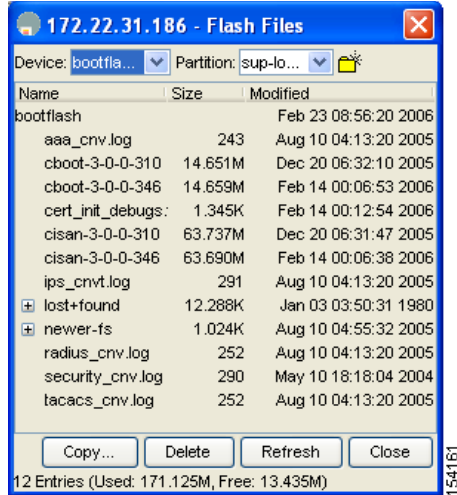
Caution

If you specify a directory, the delete removes the entire directory and all of its contents.

Copying Files

Step 1

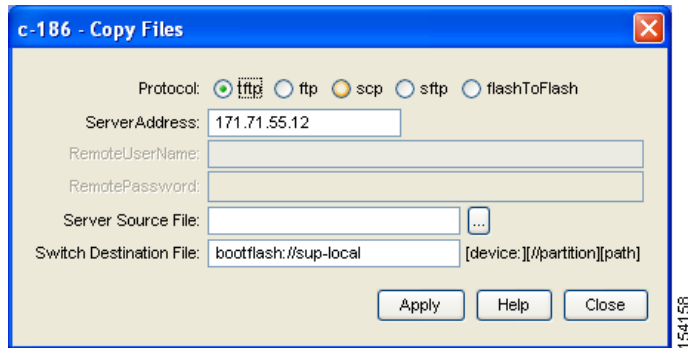
Figure 16-7 Flash Files Dialog Box



Copy.

Figure 16-8.

Figure 16-8 Copy Flash Files in Device Manager



tftp ftp scp flashToFlash.

Step 5

Step 6



Note

`[device:]`[<partition file

Where *device* is a value obtained from FlashDeviceName, *partition* is a value obtained from FlashPartitionName and *file* is the name of a file in flash.

Step 7

Step 8

Performing Other File Manipulation Tasks

To perform the following CLI-specific tasks, refer to the *Cisco MDS 9000 Family CLI Configuration Guide*

Working with Configuration Files

-
-
-

Downloading Configuration Files to the Switch

-
-
-

ping

Saving the Configuration

Step 1 Admin > Save Configuration

Really save running to startup configuration?

Yes

No

Saving the Running Configuration

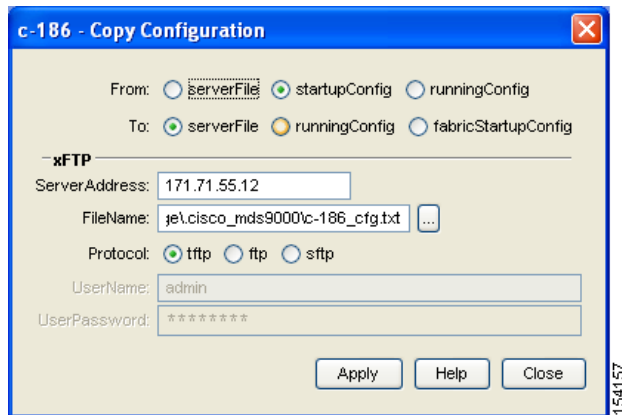
configuration in NVRAM.

To save the configuration file using Device Manager, follow these steps:

Click

You see the Copy Configuration dialog box shown in [Figure 16-9](#).

Copy Configuration Dialog Box



fabricStartupConfig



...

tftp ftp sftp.



Backing Up the Current Configuration

Step 1

c-186 - Copy Configuration

From: serverFile startupConfig runningConfig

To: serverFile runningConfig fabricStartupConfig

xFTP

ServerAddress: 171.71.55.12

FileName: je\cisco_mds9000\c-186_cfg.txt ...

Protocol: tftp ftp sftp

UserName: admin

UserPassword: *****

Apply Help Close

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Step 2

Step 3

Step 4

Step 5

Step 6

Step 7

Step 8
