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CHAPTER 3

B Commands

The commands in this chapter apply to the Cisco MDS 9000 Family of multilayer directors and fabric switches. All commands are shown here in alphabetical order regardless of command mode. Please see the Command Mode section to determine the appropriate mode for each command. For more information, see the *Cisco MDS 9000 Family Configuration Guide*.

- bios
- boot

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bios

To upgrade and verify the BIOS, use the **bios** command.

```
bios {program URI | validate URI | verify}
```

Syntax Description	program	Program the BIOS flash.
	validate	Validate the BIOS source image.
	verify	Verify the BIOS flash.
	<i>URI</i>	The BIOS binary source filename in the supervisor. For example - bootflash:MC0210.BIN. The URI is always the BIOS source file's URI in the supervisor.

Defaults None

Command Modes EXEC/Module

Usage Guidelines The BIOS source file must be downloaded into the supervisor before the **bios program** or **bios validate** commands can be used.

During the BIOS burn procedure, do not perform any configuration on the switch. In addition, do not perform a reload of the entire switch or any module.

Before the BIOS is programmed, the **bios validate** command can be run on the BIOS source file to validate it (optional).

After programming the BIOS, run the **bios verify** command to verify that the BIOS was programmed correctly (optional).

In case of programming failure, use the **bios program** command. If the failure persists, then problem lies with the BIOS flash hardware. If this is the case, the BIOS will fail to boot up if the module is rebooted.

Examples

```
module-2# bios program bootflash:MC0209.BIN

module-2# bios validate bootflash:MC0209.BIN

module-2# bios verify
Verification succeeded ..
module-2#
```

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boot

To perform operations on the system, use the **boot** command.

boot [**kickstart** | **system**] [**bootflash:** | **slot0:** | **tftp:**] [**sup-1** | **sup-2**]

Syntax Description		
kickstart		Configure kickstart image
system		Configure system image.
bootflash:		System image URI
slot0:		System image URI
tftp:		System image URI
sup-1		The upper supervisor
sup-2		The lower supervisor

Defaults None

Command Modes Configuration

Usage Guidelines The **boot kickstart slot0:image** command is currently not allowed. For kickstart, only bootflash is allowed.

Examples Add the new system image file to the SYSTEM environment variable using the **boot system** command.

```
switch(config)# boot system system.img
switch(config)#
```

Issue the following command if you are booting from the CompactFlash device (slot 0).

```
switch(config)# boot system slot0:system.img
```

The switch updates the SYSTEM environment variable to reflect the new image file in the specified Flash device.

Overwrite the old Kickstart environment variable in the configuration file using the **boot kickstart** command:

```
switch(config)# boot kickstart kickstart.img
switch(config)#
```

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