

Dell™ PowerEdge™
M905, M805, M605, and
M600 Systems
Information Update



Notes, Notices, and Cautions



NOTE: A NOTE indicates important information that helps you make better use of your computer.



NOTICE: A NOTICE indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.



CAUTION: A CAUTION indicates a potential for property damage, personal injury, or death.

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PowerEdge™ M905 and M805 Blades – Dell™ OpenManage™ Version Requirements

The PowerEdge M905 and M805 blades require OpenManage systems management software version 5.4.3 or later.



NOTICE: PowerEdge M600 and M605 blades must use OpenManage version 5.4 only. These blades do not support version 5.4.3.

PowerEdge M905 and M805 Blades – CMC Firmware Requirements

PowerEdge M905 and M805 blades require CMC firmware version 1.2 or later. If you are adding these blades to an M1000e enclosure with an older version of the CMC firmware, the new blade may not boot. In this case, update the CMC firmware using the following instructions before installing the new blades.



NOTE: See the latest *Dell Chassis Management Controller User's Guide* at support.dell.com for complete instructions on how to configure and operate the CMC module.

Updating the CMC Firmware

Downloading the CMC Firmware

Before beginning the firmware update, download the latest firmware version from the support.dell.com website, and save it to your local system.

The following software components are included with your CMC firmware package:

- Compiled CMC firmware code and data
- Web-based interface, JPEG, and other user interface data files
- Default configuration files

Use the **Firmware Update** page to update the CMC firmware to the latest revision.



NOTE: The firmware update, by default, will retain the current CMC settings. During the update process, you have the option to reset the CMC configuration settings back to the factory default settings.

Updating Firmware in a Redundant CMC Configuration



NOTE: In a redundant CMC configuration, you must update CMC firmware on both modules. Failure to do so may cause unexpected behavior during a CMC failover or failback. Use the following procedure for redundant CMC deployments.

- 1 Locate the secondary or standby CMC by using the RACADM `getsysinfo` command, or by using the **Chassis Summary** page in the Web-based interface. The status indicator will be solid blue on the primary or active CMC module and off on the standby or secondary CMC.
- 2 Update the firmware on the standby CMC first. See "Updating the CMC Firmware Using the Web-based Interface" or "Updating the CMC Firmware Using RACADM."
- 3 Verify that the secondary or standby CMC's firmware is at the requested level with the `getsysinfo` command or through the Web-based interface.
- 4 After the standby CMC has rebooted, update the firmware on the active or primary CMC. Allow 10 minutes for the standby CMC to boot.
See "Updating the CMC Firmware Using the Web-based Interface" or "Updating the CMC Firmware Using RACADM."
- 5 Verify that the active or primary CMC firmware is at the requested level using the `getsysinfo` command or through the Web-based interface.
- 6 Once both CMCs are updated to the same firmware revision, use the `cmchangeover` command to reset the CMC in the left slot as primary.

Updating the CMC Firmware Using the Web-based Interface

- 1 Log in to the Web-based interface. See "Logging in to the CMC Using the Web-Based Interface" in your M1000e *Configuration Guide*.
- 2 Click **Chassis** in the system tree.
- 3 Click the **Update** tab. The **Updatable Components** page appears.
- 4 On the **Updatable Components** page, click the CMC name. The **Firmware Update** page appears.

- 5 In the **Value** field, type the path on your management station or shared network where the firmware image file resides, or click **Browse** to navigate to the file location.



NOTE: The default CMC firmware image name is **firmimg.cmc** and the filename should not be changed. Keep different firmware revisions separated as the file name will always be the same.

- 6 Click **Update**. A dialog box appears asking you to confirm the action.
- 7 Click **Yes** to continue. The firmware transfer process will begin and the status will display the message "Firmware Update in Progress." Once the CMC update is complete, the CMC will be reset. Once the reset is complete, you will need to refresh the **User Interface** page to then log in again.

Updating the CMC Firmware Using RACADM

- 1 Open a CMC command line console and log in.
- 2 Type:

```
racadm fwupdate -g -u -a <TFTP server IP address>  
-d <filepath> -m <cmc-active|cmc-standby>
```

See the latest *Dell Chassis Management Controller User's Guide* at support.dell.com for complete instructions on how to configure and operate the CMC module.

PowerEdge M905 and M805 Blades – Memory Sparing Requirements

The following information updates the PowerEdge M905 and M805 memory sparing subsections in your *Hardware Owner's Manual* and these blades' system information labels.

PowerEdge M905

Memory sparing is supported if 24 identical memory modules (DIMMs) are installed.

PowerEdge M805

Memory sparing is supported if 16 identical memory modules are installed.

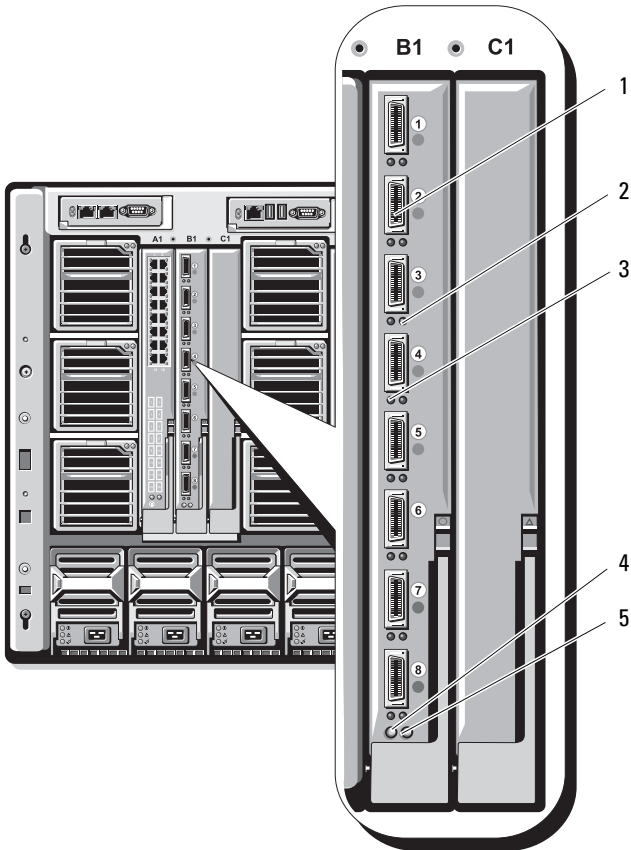


NOTE: You must also enable the **Redundant Memory** option on the **Memory Information** screen of the System Setup program, and disable the **Node Interleaving** option. For general information on memory configurations and installing memory modules, see "System Memory" in your *Hardware Owner's Manual*.

Mellanox M2401G Infiniband Switch I/O Module

Your modular system enclosure now supports the Mellanox M2401G Infiniband switch I/O module. This module includes 24 4x DDR Infiniband ports. Eight ports are external uplink ports, while 16 internal ports provide connectivity to the blades in the enclosure. This switch module is hot-pluggable, and may be installed in Fabric B or Fabric C. Table 1-1 describes the indicators on the switch. For general information on installing this module, see "I/O Modules" in your *Hardware Owner's Manual*.

Figure 1. Mellanox M2401G Infiniband Switch Module



- | | | | |
|---|------------------------------|---|------------------------------------|
| 1 | Infiniband ports (8) | 2 | port link status indicators (8) |
| 3 | port activity indicators (8) | 4 | module diagnostic status indicator |
| 5 | module power indicator | | |

Table 1-1. Mellanox M2401G Infiniband Switch Indicators

Indicator	Pattern	Description
Link indicator	Green, on	Physical link established
	Green, off	No physical link present
Activity indicator	Amber, on	Valid logical link to Infiniband network established
	Amber, blinking	Data transfer is occurring
	Amber, off	No logical link to Infiniband network