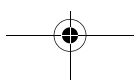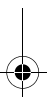# Dell™ PowerEdge™ 2800 Systems

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.**

Abbreviations and Acronyms

For a complete list of abbreviations and acronyms, see "Glossary" in your *User's Guide*.

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This document provides updated information for your system on the following topics:

- Enabling video hardware acceleration in the Microsoft® Windows® Server 2003 operating system
- Correcting flat-panel display video problems during Microsoft Windows Server 2003 operating system installations
- PCI-e hot-plug support
- Failure to load usb-ohci driver message on systems running Red Hat® Enterprise Linux Version 2.1
- NIC teaming limitations
- LCD status messages update
- Installing the cable-management arm

Enabling Video Hardware Acceleration in the Microsoft Windows Server 2003 Operating System

By default, video hardware acceleration is set to its lowest setting (**None**) by the Microsoft Windows Server 2003 operating system. Your system's video controller supports enhanced features and requires that the video hardware acceleration be set to its highest (**Full**) setting. Operating the system without adjusting the video hardware acceleration to its highest setting may cause the system to become unstable under certain conditions. To adjust the video hardware acceleration:

1 Click **Start**, point to **Control Panel**, and then click **Display**.

  You can also right-click the desktop, and then click **Properties**.

2 Click the **Settings** tab in the **Display Properties** window, and then click **Advanced**.

3 Click the **Troubleshoot** tab, and move the hardware acceleration slider from **None** to **Full**.

4 Click **OK**, and then click **OK**.

If you reinstall or update the video drivers, or if you reinstall Windows Server 2003, you must reset the video hardware acceleration to its **Full** setting again.

Correcting Flat-Panel Display Video Problems During Microsoft Windows Server 2003 Operating System Installations

> ✍ **NOTE:** The following information applies only to Microsoft Windows Server 2003 operating system installations on systems that have certain flat-panel displays attached. Systems that have a CRT monitor attached, or systems that have any other operating system installed, are not affected.

Under certain conditions, the image on some flat-panel displays may roll during the installation of the Microsoft Windows Server 2003 operating system. This is caused by console redirection being enabled in the System Setup program (console redirection is disabled by default).

Console redirection is intended for system management from a terminal attached to the system's serial port. When Windows Server 2003 detects that console redirection is enabled, it optimizes its installation screens to a low-resolution text mode for a vt100-compatible terminal. Some flat-panel displays cannot synchronize to that mode.

To correct the problem, restart the system, enter the System Setup program, and disable console redirection. After installing the Windows Server 2003 operating system, enter the System Setup program, and enable console redirection, if desired.

PCI-e Hot-Plug Support

When available, the following PCI Express (PCI-e) Fibre Channel (FC) host-bus adapter (HBA) cards will support hot plug operation:

*   The Emulex PCI-e FC HBA will support hot-replace (replacing an existing card with an identical card) and hot-remove operations under the Windows Server 2003 and Windows 2000 Server and Advanced Server operating systems, or the Novell® NetWare® 6.5 operating system (when available). Hot-add will not be supported.

*   The QLogic PCI-e FC HBA will support hot-replace and hot-remove operation under the Windows Server 2003 and Windows 2000 Server and Advanced Server operating systems, or the Novell NetWare 6.5 operating system (when available). Hot-add will not be supported.

Dell™ PowerEdge™ Expandable RAID Controller (PERC) cards and the Broadcom 5721 PCI-e NIC do not support hot-plug PCI-e operation.

Failure to Load usb-ohci Driver Message on Systems Running Red Hat Enterprise Linux (Version 2.1)

A failure message may be displayed when `Initializing USB controller (usb-ohci)` appears during startup. Update versions of Red Hat Enterprise Linux (version 2.1) prior to Update 4 mistakenly attempt to load this driver for the USB 2.0 controller. Red Hat Enterprise Linux version 2.1 does not support USB 2.0. To avoid this erroneous message on versions prior to Update 4, remove the line in **/etc/modules.conf** that causes **usb-ohci** to load. Otherwise, install Red Hat Enterprise Linux (version 2.1) Update 4 to resolve the problem.

NIC Teaming Limitations

If you configure the baseboard management controller (BMC) to access the system using the first integrated NIC (NIC1), teaming functionality and BMC functionality will be affected in certain situations, as shown in Table 1-1.

Table 1-1. Effect of BMC Use of NIC1 on Teaming Functionality

Action	AFT, ALB/RLB, and SFT Teaming Mode Effect	IEEE 802.3ad and Ether Channel Teaming Mode Effect
NIC1 allocated to BMC *before* team is created	Normal teaming and BMC functionality.	Normal teaming functionality. BMC functionality may be affected because of loss of management traffic.
	BMC and NIC1 will issue a warning message about the loss of management traffic in the event of adaptive failover.	BMC and NIC1 will issue a warning message about loss of management traffic in the event of adaptive failover.
NIC1 allocated to BMC *after* team is created	Normal teaming and BMC functionality.	Normal teaming functionality. BMC functionality may be affected because of loss of management traffic.
	BMC will issue a warning message about the loss of management traffic in the event of adaptive failover.	BMC will issue a warning message about loss of management traffic in the event of adaptive failover.
	NIC1 will not display a warning message but teaming will function normally.	NIC1 will not display a warning message but teaming will function normally.
NIC1 BMC access disabled *before* team is created	Normal teaming functionality	Normal teaming functionality

Table 1-1.   Effect of BMC Use of NIC1 on Teaming Functionality *(continued)*

Action	AFT, ALB/RLB, and SFT Teaming Mode Effect	IEEE 802.3ad and Ether Channel Teaming Mode Effect
NIC1 BMC access disabled *after* team is created	Normal teaming functionality	Normal teaming functionality

> NOTE: To avoid false error messages, use only the Intel® NIC drivers provided by Dell.

LCD Status Messages Update

Table 1-2 lists updates to the LCD status messages that can occur, and the probable cause for each message. The LCD messages refer to events recorded in the system event log (SEL). For information on the SEL and configuring system management settings, see the systems management software documentation.

Table 1-2.   LCD Status Messages

Line 1 Message	Line 2 Message	Causes	Corrective Actions
SYSTEM ID	*SYSTEM NAME*	*SYSTEM ID* is a unique name, five characters or less, defined by the user. *SYSTEM NAME* is a unique name, 16 characters or less, defined by the user. The system ID and name display under the following conditions: • The system is powered on. • The power is off and active POST errors are displayed.	This message is for information only. You can change the system ID and name in the System Setup program. See your *User's Guide* for instructions.
E0000	OVRFLW CHECK LOG	LCD overflow message. A maximum of three error messages can display sequentially on the LCD. The fourth message displays as the standard overflow message.	Check the SEL for details on the events.
E0119	TEMP AMBIENT TEMP BMC	Ambient system temperature is out of acceptable range.	See "Troubleshooting System Cooling Problems" in your *Installation and Troubleshooting Guide*.

Table 1-2.   LCD Status Messages *(continued)*

Line 1 Message	Line 2 Message	Causes	Corrective Actions
E0119	TEMP RISER	Riser card is out of acceptable temperature range.	See "Troubleshooting System Cooling Problems" in your *Installation and Troubleshooting Guide*.
E0212	VOLT PG *n*	System power supply is out of acceptable voltage range; faulty or improperly installed power supply.	See "Troubleshooting Redundant Power Supplies" in your *Installation and Troubleshooting Guide*.
E0212	VOLT BATT ROMB	Faulty RAID battery.	Replace the RAID battery. See "Activating the Optional Integrated RAID Controller" in your *Installation and Troubleshooting Guide*.
E0212	VOLT BATT CMOS	Faulty system battery.	Replace the system battery. See "System Battery" in your *Installation and Troubleshooting Guide*.
E0212	VOLT RISER 5V VOLT RISER	Riser card voltage is out of acceptable range; faulty or improperly installed power supply; faulty system board.	Reinstall the expansion-card cage. See "Installing the Expansion-Card Cage" in your *Installation and Troubleshooting Guide*. If the problem persists, see "Getting Help" in your *Installation and Troubleshooting Guide*.
E0412	RPM FAN *n* FAN REDUNDANCY LOST	Specified cooling fan is faulty, improperly installed, or missing.	See "Troubleshooting System Cooling Problems" in your *Installation and Troubleshooting Guide*.
E0780	PROC *n* PRESENCE	Microprocessor is not installed in socket *n*.	Install a microprocessor in socket *n*. See "Replacing a Processor" in your *Installation and Troubleshooting Guide*.
E07F0	PROC *n* IERR	Faulty or improperly installed microprocessor.	See "Troubleshooting the Microprocessors" in your *Installation and Troubleshooting Guide*.

Table 1-2.   LCD Status Messages *(continued)*

Line 1 Message	Line 2 Message	Causes	Corrective Actions
E07FA	PROC *n* THERMTRIP	Specified microprocessor is out of acceptable temperature range and has halted operation.	See "Troubleshooting System Cooling Problems" in your *Installation and Troubleshooting Guide*. If the problem persists, ensure that the microprocessor heat sinks are properly installed. See "Replacing a Processor" in your *Installation and Troubleshooting Guide*. **NOTE:** The LCD continues to display this message until the system's power cord is disconnected and reconnected to the AC power source, or the SEL is cleared using either Server Assistant or the BMC Management Utility. See the *Dell OpenManage Baseboard Management Controller User's Guide* for information about these utilities.
E0876	PS *n* MISSING PS *n* STATUS	No power available from the specified power supply; specified power supply is improperly installed or faulty.	See "Troubleshooting Redundant Power Supplies" in your *Installation and Troubleshooting Guide*.
E0876	PS *n* PREDICTIVE	Power supply voltage is out of acceptable range; specified power supply is improperly installed or faulty.	See "Troubleshooting Redundant Power Supplies" in your *Installation and Troubleshooting Guide*.
E0876	PS *n* AC LOST PS *n* AC RANGE	Power source for specified power supply is unavailable, or out of acceptable range.	Check the AC power source for the specified power supply.
E0D76	BP DRIVE *n* 1x2 DRIVE FAIL *n* SCSI CONNECTOR	Faulty or improperly installed hard drive or RAID controller.	See "Troubleshooting SCSI Hard Drives," "Troubleshooting a RAID Controller Card," and "Troubleshooting the Integrated RAID Controller" in your *Installation and Troubleshooting Guide*.

Table 1-2.   LCD Status Messages *(continued)*

Line 1 Message	Line 2 Message	Causes	Corrective Actions
EB107	PROC BUS ERR PROC INIT ERR PROC PROTOCOL ERR	Faulty or improperly installed microprocessor or system board.	See "Troubleshooting the Microprocessors" in your *Installation and Troubleshooting Guide*. If the problem persists, see "Getting Help" in your *Installation and Troubleshooting Guide*.
EB107	PCIE FATAL ERR CHIPSET ERR	Faulty or improperly installed PCI-e card. Faulty or improperly installed riser card. Faulty system board.	Remove and reseat the PCI-e expansion cards. If the problem persists, see "Troubleshooting Expansion Cards" in your *Installation and Troubleshooting Guide*.
			Reinstall the expansion-card cage. See "Installing the Expansion-Card Cage" in your *Installation and Troubleshooting Guide*.
			If the problem persists, the riser card or system board is faulty. See "Getting Help" in your *Installation and Troubleshooting Guide*.
EB107	MEMORY MIRRORED	Memory mirroring enabled.	Information only.
EB107	MEMORY SPARED	Memory spare bank enabled.	Information only.
EFFF2	ROMB PRESENCE	Integrated RAID controller is activated.	Information only.
IB110	SBE LOG DISABLED LOGGING DISABLED		Information only.
IS000	INTRUSION	System cover has been removed.	Information only

NOTE: For the full name of an abbreviation or acronym used in this table, see the "Glossary" in your *User's Guide*.

Installing the Cable-Management Arm

Although the cable-management arm can be installed on either side of the system rack, it is recommended that you install it on the right side (when facing the back of the system). Installing the cable-management arm on the left side of the rack will require you to disengage the cable-management arm to access the power supplies for removal or replacement.