

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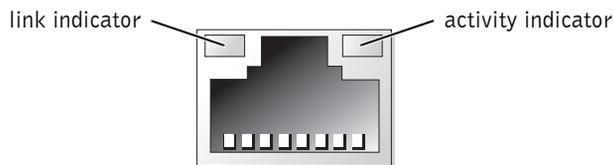
This document provides updated information on the following topics for your system:

- Driver issues
- SCSI issues and features
- RAID controllers
- Novell® NetWare® 6.0
- Red Hat Linux
- Remote Access

Driver Issues

Systems running Microsoft® Windows® 2000 Server Family operating systems can sometimes erroneously report that the embedded gigabit NIC could not establish a link during start-up. Check the link indicator on your NIC connector to see if the system is connected to a valid link partner on the network. See Figure 1-1. If the link indicator is green, the NIC is connected to a valid link partner on the network. If your NIC has established a link during start-up, you can safely ignore this event if you see it reported in the event viewer.

Figure 1-1. NIC Indicators



During the installation of the Intel® driver set for Microsoft Windows NT® 4.0 (version 5.4 for the Intel PRO 100/1000), you might receive the following noncritical error message: Unable to open the file A:\PROSet2\PROSetp.cp_. You can safely ignore this message. Press **Ignore** in the error message dialog box to continue installing the drivers. This issue will be fixed in a future release of the Intel driver set for Windows NT 4.0.

SCSI Issues and Features

SCSI Firmware Setting Limitations

When channel A is set to ROMB and channel B is set to SCSI, you cannot make changes to the SCSI firmware settings. This issue is present with LSI ROMB firmware version 2.01. This issue will be fixed in a future release of the ROMB firmware. Check the Dell Support website at support.dell.com for the latest information.

SCSI Setup Features

The SCSI option ROM allows you to set up to four channels to be included in the boot order. Make sure that the drive containing the operating system is set as one of these first four channels in the boot sequence. If the drive containing the operating system is connected to your system through a SCSI host adapter card, you might need to physically move the card to a higher slot in order to make sure that the drive can be included in the boot order. See your *Installation and Troubleshooting Guide* for information about the PCI bus scan order for your system and about removing and replacing expansion cards. The System Setup program provides options that the system uses to scan for installed boot devices. See your system's *User's Guide* for information about using the System Setup program.

RAID Controllers

Installing RAID Controllers

Install Dell® PowerEdge® Expandable RAID Controller (PERC) 3/DC and PERC 3/QC expansion cards in PCI-X expansion card slots 2 through 5. Do not install PERC 3/DC and PERC 3/QC expansion cards in slots 6 and 7. Expansion cards with older PCI technology might overdrive the light load of newer technology slots such as the 133-Mhz PCI-X slots (slots 6 and 7). See your *Installation and Troubleshooting Guide* for information about installing expansion cards.

Configuring RAID Controllers

 **NOTICE:** Changing the configuration of the ROMB controller on the boot container by mistake can result in clearing the operating system configuration.

If ROMB is enabled and one or more PERC 3/DC or PERC 3/QC RAID controllers are installed in the system, do not clear the configuration of the ROMB controller on the boot container by mistake. When you access the RAID controller setup functions by pressing <Ctrl> <m> during start-up, the ROMB boot container is listed as the default controller. Be careful to select the correct RAID controller before making any container configuration changes.

Novell NetWare 6.0

USB Driver Issue

Systems running NetWare 6.0 (with Support Pack 1) that have an attached USB keyboard can lock up when the reset server command is run. The updated UHC1DRV.NLM file is available on the *Dell OpenManage Server Assistant* CD and will remedy this issue.

ERA/O Card Issue

NetWare 6.0 (with Support Pack 1) might not recognize an ERA/O remote management card that is installed in your system. When you add a new expansion card, systems with an installed ERA/O card can lock up when the NWDETECT.NLM file attempts to configure the new card. You can avoid this issue by applying one of the following solutions:

- Install NetWare 6.0 Support Pack 2 (when it becomes available) before adding any expansion cards. See the Novell website at www.novell.com for the latest information.
- Replace NWCONFIG.NLM (v.3.40d, September 20, 2001) with the updated NWCONFIG.NLM (v.3.40d, May 3, 2002) from NetWare 6.0 Support Pack 2. See the Novell website at www.novell.com for the latest information. To update NWCONFIG.NLM, perform the following steps:
 - 1 After NetWare 6.0 installation is complete, rename C:\NWSERVER\NWCONFIG.NLM to NWCONFIG.OLD.
 - 2 Copy NWCONFIG.NLM from the \Startup directory on NetWare Support Pack 2 to C:\NWSERVER.
 - 3 Restart your system.

Updated Drivers for Installation

NetWare 6.0 will not install on systems with integrated SCSI enabled unless you load the updated drivers that are provided on a driver diskette with your system. Use this diskette to load the updated drivers during operating system installation.

- 1 Insert the *Server Assistant* CD into the CD drive and restart your system.
- 2 Select the language you want to use.
- 3 Read and accept the software license agreement to continue.
- 4 Select **Server Setup** on the **Server Assistant** main page.
- 5 Follow the step-by-step instructions to configure your hardware and install your operating system.
- 6 When prompted, insert the NetWare 6.0 CD into the CD drive.
- 7 Follow the instructions on the screen until you reach the **Storage Driver Support** screen.

This screen is used to add, change, or delete drivers.

- 8 Select **Storage Adapters** and click **Insert** to add unlisted drivers.
- 9 Click **Insert** again.
- 10 Insert the driver diskette that came with your system into the diskette drive and press <Enter>.

The system finds the **LSIMPTNWHAM** driver for the LSI Logic Ultra320 SCSI adapters.

- 11 Return to the **Driver Summary** screen and continue the installation.

 **NOTE:** A new **NWPA.NLM** file is necessary for proper operation of this NetWare driver. This file is included on the driver diskette for the LSI Logic Ultra320 SCSI adapters. If this file is not present on a multiprocessor system, the system will hang during its first boot after installation. In the case of a single-processor system, you may experience hangs intermittently during runtime.

- 12 After the installation completes, but before the first boot of NetWare, insert the driver diskette for the LSI Logic Ultra320 SCSI adapters.
- 13 Allow the computer to boot from the driver diskette.

It automatically copies the new **NWPA.NLM** file into the **NWSERVER** directory.

- 14 Remove the driver diskette.

Hyper-Threading

Hyper-Threading is not currently supported on systems running NetWare 6.0.

Red Hat Linux

Red Hat Linux 7.2 Issues

 **NOTE:** Dell does not provide technical support for Red Hat Linux 7.2 for your system.

Your system includes several new hardware features that were not available when Red Hat Linux 7.2 was released. As a result, Dell strongly recommends that you install Red Hat Linux 7.3 instead. If you have requirements for Red Hat Linux 7.2, Dell has prepared documentation that describes the steps required for installation. Those steps are available at support.dell.com by searching for Linux 7.2.

Using ARCserve® IT™ on Systems Running Red Hat Linux 7.3

For systems running Red Hat Linux 7.3, you cannot use ARCserveIT to back up your data when your tape drive is connected to integrated SCSI channel B. This configuration creates a conflict between system IDs. To use ARCserveIT to back up your data on a system running Red Hat Linux 7.3, you have two options: changing the tape drive ID to avoid the system ID conflict or attaching your tape drive to a supported SCSI controller expansion card.

Perform the following steps to change the ID number of the tape drive to remedy the system's ID number conflict:

- 1 At the command prompt, type `insmod sg`.
- 2 Type `more /proc/scsi/sg/device_hdr` to print a header.
- 3 Type `more /proc/scsi/sg/devices` to print multiple lines of numbers matching the above headers.

The first column is the adapter number, and the third is the ID number.

- 4 Change the tape drive ID number to one that is currently not used.

 **NOTE:** Tape drives have either jumpers or some other way of physically changing the ID number of the device. See the documentation that came with your tape drive for information about setting ID numbers.

Remote Access

For systems that have an installed ERA/O remote management card, you cannot control any functions during POST (for example, entering the System Setup program, utility partition, or ROMB setup) while in console redirection through a management station, if a USB keyboard or mouse is plugged into the managed system. This issue will be fixed in a future BIOS release. Check the Dell Support website at support.dell.com for the latest information.