

Microsoft® Windows® Advanced Server  
Limited Edition Refresh

# Installation Instructions and Important Information



# 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.**

---

**Information in this document is subject to change without notice.**

**© 2002 Dell Computer Corporation. All rights reserved.**

Reproduction in any manner whatsoever without the written permission of Dell Computer Corporation is strictly forbidden.

Trademarks used in this text: *Dell*, the *DELL* logo, *PowerEdge*, and *DirectLine* are trademarks of Dell Computer Corporation; *Microsoft*, *Windows*, and *Windows NT* are registered trademarks of Microsoft Corporation; *Intel* is a registered trademark and *Itanium* is a trademark of Intel Corporation.

Other trademarks and trade names may be used in this document to refer to either the entities claiming the marks and names or their products. Dell Computer Corporation disclaims any proprietary interest in trademarks and trade names other than its own.

This document provides setup and general information for the Microsoft® Windows® Advanced Server Limited Edition Refresh version 1.1 operating system for 64-bit systems (hereafter known as Limited Edition Refresh). This document covers the following topics:

- Supported deployment environments
- 32-bit application compatibility
- Performing a clean installation of Limited Edition Refresh
- Updating to Limited Edition Refresh
- Important information
- Getting help



**NOTE:** Before you begin, review the documentation that came with your operating system for important product information.

## Supported Deployment Environments

Limited Edition Refresh is intended for the user's evaluation and deployment. This product has only been tested for use in connection with, and might not function outside of, the following environments or anticipated users:

- 64-bit qualified applications (qualified applications are third-party applications which have been designed and tested on the 64-bit version of Windows)
- 64-bit database applications
- 64-bit Web systems that serve HTML pages
- Scientific computing environments for performing numerical analysis
- File and print server cluster environments

You can continue to use the Windows 2000 server family of products in environments or uses outside of those listed in this section.

## 32-Bit Application Compatibility

The 64-bit version of Windows is designed and optimized on the new 64-bit Explicitly Parallel Instruction Set Computing (EPIC) instruction set of the Intel® Itanium™ processor. Although Limited Edition Refresh is backward-compatible with 32-bit Windows-based server applications, the application performs much better on 32-bit versions of Windows. Microsoft strongly recommends that customers deploy 32-bit Windows-based server applications on 32-bit versions of Windows, such as Windows 2000 Advanced Server or Windows 2000 Datacenter Server.

## Performing a Clean Installation of Limited Edition Refresh



**NOTICE:** See the first bulleted item under "SCSI and RAID Controllers" in "Important Information." Your Dell™ PowerEdge™ Expandable RAID Controller (PERC) 3/QC controller must be at firmware version 1.61 or later before installing Limited Edition Refresh, or before adding a PERC 3/QC controller card to an existing Limited Edition Refresh installation.

Review the documentation that came with your operating system for important product information. The documentation contains an overview of the operating system, explanations of features, installation instructions, descriptions of common tasks, and troubleshooting information.

Before you turn on your system for the first time, you must connect the keyboard, monitor, mouse, and network cable (if applicable) and attach any other devices that you intend to use with your system.

- 1 Ensure that all the cables are connected including power, mouse, keyboard, video, and network cables.
- 2 Turn on your system and any attached peripherals, and insert the operating system CD into the CD drive.

Your system performs the startup process, counts the memory, and scans the drives attached to the internal QLogic SCSI controllers.

- 3** Configure your system disks and the controller (either a QLogic SCSI controller or a PERC 3/QC). Continue with one of two following procedures (either QLogic controller or PERC 3/QC):

#### QLogic SCSI controller

- a** Press <Alt><q>.
- b** Select **SCSI Disk Utility**→**SCSI Bus0**.
- c** Select the hard drive that you want to low-level format.  
This operation takes from several minutes to several hours depending on the drive size.
- d** Exit the SCSI Disk Utility and restart the system by pressing <Esc> several times.
- e** Go to step 4.



**NOTICE:** If your system has external drives attached to the PERC 3/QC card, ensure that the drives have been low-level formatted prior to attaching to the PERC 3/QC card.

#### PERC 3/QC card

- a** Press <Ctrl><m>.
- b** Select **Configure**→**New Configuration**→**Yes**.
- c** Configure your disks in the RAID in the applicable RAID array. The configuration might vary depending on the installed physical disks, the RAID level required, and the number of desired virtual disks.  
If you need help with this step, see the RAID documentation that came with your system.
- d** Click **Accept** and then click **Save** to save the new configuration.
- e** Press <Esc> to return to the main **Management Menu**.
- f** Initialize all of the virtual disks that you just configured.
- g** Press <Esc> several times to return to the main management menu and press <Ctrl><Alt><Delete> to restart your system.
- h** Go to step 4.

- 4 When prompted, quickly press any key to boot your system from the operating system CD.



**NOTE:** If you do not press a key on the keyboard, your system reverts back to the Extensible Firmware Interface (EFI) Boot Manager, which allows you to repeat this step.

The **Welcome to Setup** screen appears.

- 5 Press <Enter> to continue.

The **Setup Could Not Locate an Existing System Partition** screen appears.

- 6 Press <Enter>.

The setup program creates and automatically formats a system partition. The partition is an EFI system partition formatted with a file allocation table (FAT) file system. The operating system stores system files in this partition.

- 7 After the partition is formatted, read through the license agreement and press <F8> to accept the agreement.


The **Disk-Partitioning** screen appears. This screen displays the disks attached to the controller and their capacities. The operating system installation automatically creates an EFI system partition (minimum 100 Mb)/maximum 1 GB and an unknown Partition2 of approximately 126 Mb.



**NOTICE:** Do not delete any partitions. The partitions are necessary to convert basic disks to dynamic disks in disk management. Your system might fail after the operating system is installed if partitions are deleted.

- 8 Either create a third partition in the unpartitioned space or use all of the unpartitioned space to install your operating system.
  - a Highlight either all of the unpartitioned space or the partition you just created.
  - b Press <Enter>.

The system prompts you to format the partitions using the Windows NT<sup>®</sup> file system (NTFS) menu (the default option).

 **NOTE:** The NTFS file system is required if you install Active Directory for testing purposes.

- 9 Press <Enter> to continue.

After the partitions are formatted, the operating system copies system files to your drive. This operation takes a few minutes.

When the system files are copied, your system automatically restarts and the GUI setup continues. Limited Edition Refresh prompts for answers to regional settings, organization name, local time, date and zone, system name, and product key.

- 10 Type the required information, if needed, and click **Next** in each window to continue.
- 11 Select your licensing mode by selecting either **Per Server** (the default) or **Per Seat**, and click **Next**.
- 12 In the **Computer Name** field and **Administrator Password** field, enter the requested information and click **Next**.
- 13 In the **Date** field and **Time** field, enter the required settings, and click **Next**.
- 14 Configure your system's network setting by selecting **Typical Settings** or **Custom Settings**, and then click **Next**.

The **Network on Computer Domain** window appears. This window allows you to specify making this system a part of a domain or leaving it as a workgroup.

- 15 Make your selection and click **Next**.

The operating system configures the networking partition and continues installing the remainder of the components. This process can take several minutes.

When all of the files are copied, setup automatically restarts the system, registers components, and creates programs.

The **Welcome to Windows** window appears.

- 16** Press <Ctrl><Alt><Delete>.  
The **Log On To Windows** window appears.
- 17** In the **Admin name** field and **Password** field, type the required information.  
The **Configure Your Server Wizard** window appears and the configuration wizard starts.
- 18** Click **Next** if you want to continue configuring your system.  
Specify as much additional configuration as required for this particular system.
- 19** Remove the operating system CD from the CD drive.
- 20** Insert the *Hot Fix Files for Microsoft Windows Advanced Server, Limited Edition Refresh* CD into the CD drive and double-click the **Q321256\_WXP\_SP1\_ENU.exe** file in the root directory.  
The setup program begins and the **Windows Q321256 Setup** window displays.
- 21** Click **Next**.  
Setup installs the hot fix.
- 22** Click **Finish** to exit the **Windows Q321256 Setup** window.  
The system automatically reboots when the upgrade is finished.
- 23** Remove the *Limited Edition Refresh* CD from the CD drive.

You have successfully completed the installation of Limited Edition Refresh.

# Updating to Limited Edition Refresh

Perform the following steps if you have Limited Edition installed and are updating to Limited Edition Refresh:

- 1 Turn on your system and any attached peripherals.

Your operating system performs the startup process, counts the memory, and scans the drives attached to the internal QLogic SCSI controllers.

- 2 After you have logged into the operating system, insert the CD into the CD drive.

The **Welcome to Microsoft Windows Advanced Server, Limited Edition version 1.1** screen appears.

- 3 Select **Install Windows Advanced Server, Limited Edition v1.1**.

The **Welcome to Windows Setup** window appears, asking you which type of installation you want to perform.

- 4 Click **Upgrade (Recommended)** and then click **Next**.

The **License Agreement** window appears.


- 5 Read the license agreement, click **Accept**, and then click **Next**.

The **Product Key** window appears.

- 6 Type your product key and click **Next**.

The **Get Updated Setup Files** window appears.

- 7 Select the appropriate selections and click **Next**.

 **NOTE:** If you select **Yes**, your system must be connected to the Internet to download the updated setup files.

This part of the update process takes several minutes.

- 8 Remove the operating system CD from the CD drive.

- 9 Insert the *Hot Fix Files for Microsoft Windows Advanced Server, Limited Edition Refresh* CD into the CD drive and double-click the **Q321256\_WXP\_SP1\_ENU.exe** file in the root directory.

The setup program begins and the **Windows Q321256 Setup** window displays.

- 10 Click **Next**.

Setup installs the hot fix.

- 11 Click **Finish** to exit the **Windows Q321256 Setup** window.

The system automatically reboots when the upgrade is finished.

- 12 Remove the *Limited Edition Refresh* CD from the CD drive.

You have successfully completed the upgrade to Limited Edition Refresh.

## Important Information

Because this release of the software is a special program, some issues have been identified during the software development phase. Dell is working with Microsoft to resolve the issues in future operating system builds. The issues are divided into categories.

### Networking

- **Issue:** When your system experiences heavy network utilization (40 to 50 clients) on gigabit NICs, the user interface might be slower than normal. The processor utilization might also show all network traffic on one processor.

**Workaround/Solution:** The operating system is designed to perform in this manner.

- **Issue:** The operating system is unable to autodetect other clients or systems within the same workgroup or domain as shown in the **Windows Network Place** icon on the desktop.

**Workaround/Solution:** You can still access other clients by specifying their IP address or system name.

## SCSI and RAID Controllers

- **Issue:** If you add a PERC 3/QC controller to a PowerEdge 7150 system after you install Limited Edition Refresh using the QLogic 12160 controller, the operating system might not shut down.

**Workaround/Solution:** Prior to adding the PERC 3/QC controller to your system, you must upgrade the PERC 3/QC firmware to version 1.61 or later. This version is available for download from the Dell | Support website at [support.dell.com](http://support.dell.com).

You must also clear the configuration if you had a previous PERC 3/QC configuration. To clear the configuration, continue with the following steps:

- a During system startup, press <Ctrl><m>.
  - b Select **Configure**→ **Clear Configuration**→ **Yes**.
  - c Press <Esc> several times to return to the main management menu.
  - d Press <Ctrl><Alt><Delete> to restart your system.
- **Issue:** Adding a PERC 3/QC displays a yellow "bang" (!) in the Device Manager if you have not upgraded the firmware (version 1.61 or later) for the PERC 3/QC.

**Workaround/Solution:** Upgrade the PERC 3/QC firmware to version 1.61 or later prior to Limited Edition Refresh installation. This firmware version is available for download from the Dell | Support website at [support.dell.com](http://support.dell.com).

## Other Issues

- **Issue:** After you perform a clean installation of the operating system, the system and application error log displays SideBySide and PassportManager errors.

**Workaround/Solution:** Clear the event log and restart your system. The system log errors do not affect your system's operation.

- **Issue:** After you perform a clean installation of the operating system, the system displays a yellow "bang" (!) in Device Manager under **Unknown Device**. The bang occurs because of the Intel 82372FB PCI bus to the ISA bridge.

**Workaround/Solution:** This issue will be resolved in a later BIOS release.

- **Issue:** After you perform a clean installation of the operating system, unknown disks appear in the Disk Management console. If you have QLogic 2200 controllers (firmware version 1.45) in a PowerEdge 7150 system and do not have any storage attached to them, you may see four unknown disks in the Disk Management console. When you attach storage, the unknown drives are still apparent in the Disk Management console. The unknown drives do not affect system performance.

**Workaround/Solution:** Dell is currently working with its vendors to resolve this issue.

- **Issue:** Before you reinstall the operating system, you might see the following error during POST before the EFI Boot Manager starts:

```
Loading Device Drivers
Load of Auxiliary Floating Point Driver failed:
Unsupported
Pause - press any key to continue
```

**Workaround/Solution:** Perform the following steps:

- 1 Press any key.

The **EFI Boot Manager** menu displays.

- 2 At the shell prompt type the following information and press <Enter>:  

```
bcfg driver dump
```
- 3 Verify that the **Auxiliary Floating Point Driver** is set to 01.
- 4 At the shell prompt, type the following information and press <Enter>:  

```
bcfg driver rm 01
```

The system displays a message stating that driver 01 has been removed.
- 5 At the shell prompt, type `reset` and press <Enter>.  
Your system reboots.

## Getting Help

If at any time you do not understand a procedure described in this guide, or if your system does not perform as expected, Dell provides a number of tools to help you. For more information on these help tools, see the "Getting Help" section in your PowerEdge *Installation and Troubleshooting Guide*.

Dell Enterprise Training and Certification is available now; see [www.dell.com/training](http://www.dell.com/training) for more information. This service may not be offered in all locations.

### Using Dell Technical Support Services

Dell provides the following services to assist you.



**NOTE:** Technical information is available from the Dell | Support website at [support.dell.com](http://support.dell.com).

## Dell DirectLine™ Network Operating System Support Service



**NOTE:** The following service is not always available in all locations outside the continental U.S. Call your local Dell representative for information on availability.

Technical assistance is provided through a fee-based service, the Dell DirectLine Networking Operating System support service. DirectLine provides assistance for troubleshooting network issues and for making problem determinations. Dell technicians propose corrections for both hardware and operating system error messages and provide problem resolution. Administrative services, such as assistance with the installation of the operating system or other utility software, are also covered by the Dell DirectLine service.

DirectLine does not provide assistance for non-Dell hardware or any onsite response for upgrades or patches beyond what is covered in your service contract. If you require technical assistance, you can contact Dell using the appropriate numbers provided in your Dell DirectLine documentation.