Microsoft® Windows Server® 2003 R2, x64 Datacenter Edition With Unlimited Virtualization With SP2 for Dell™ PowerEdge™ Systems

Configuring Your Operating System

Notes and Notices

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.

Contents

This document explains how to install your Microsoft$^®$ Windows Server$^®$ 2003 R2, x64 Datacenter Edition With Unlimited Virtualization With SP2 operating system and covers the following topics:

- Preinstallation Requirements.
- Installing Microsoft Windows Server 2003 R2, x64 Datacenter Edition With Unlimited Virtualization With SP2 Using the Operating System Media.
- Installing Microsoft Windows Server 2003 R2, x64 Datacenter Edition With Unlimited Virtualization With SP2 Using the Dell PowerEdge Installation and Server Management Media.
- Installing the R2 Components.
- Important Information.
- Getting Help.
- Dell Advanced Software Support.

After installing the operating system, you may have to manually install device drivers that are not automatically installed. To determine which devices require drivers, boot your system from the *Dell™ PowerEdge™ Installation and Server Management* media and select **View Hardware** in the **Welcome to Dell OpenManage™ Server Assistant** window. The devices that require drivers to be installed on your system are listed on your screen.

NOTE: For more information about the devices that require drivers, see the *Microsoft Windows Server 2003 R2, x64 Datacenter Edition With Unlimited Virtualization With SP2 Important Information* document at www.dell.com/ostechsheets.

Preinstallation Requirements

Before you begin installing the operating system, perform the prerequisites listed below:

- Read the Microsoft *Getting Started* document that ships with your operating system documentation.

- Download the latest BIOS, firmware, and driver updates from the Dell Support website at **support.dell.com**.

  For information on the minimum supported BIOS, system firmware, and RAID controller driver versions for R2, see the *Microsoft Windows Server 2003 R2, x64 Datacenter Edition With Unlimited Virtualization With SP2 Important Information* document at **www.dell.com/ostechsheets**

- Create a device driver diskette.

Creating a Device Driver Diskette

1 Insert the *Dell PowerEdge Service and Diagnostic Utilities* media into another system running a Windows® operating system.

  The *Dell PowerEdge Service and Diagnostic Utilities* media starts automatically.

  If the media does not start automatically:

  a Open Windows Explorer.

  b Locate the media drive.

  c Right-click the media drive and click **AutoPlay**.

  The **Dell Service and Diagnostic Utilities** window appears.

2 In the **Please Select A Server** drop-down menu, select the name of your system.

3 In the **Select Drivers/Utilities Set** box, select **System Utilities** and click **Continue**.

  The **Utilities and Drivers Page** window appears.

4 Double-click the appropriate file for your operating system.

5 Follow the instructions on the screen to download the file.

6 Save the self-extracting zip file to the local hard drive and then extract the file to a diskette.

7 Close the **Dell OpenManage Server Assistant** window.

8 Remove the *Dell PowerEdge Service and Diagnostic Utilities* media from the media drive.

Setup Limitation While Installing Dell Drivers on Servers Without a Diskette Drive Running Microsoft Windows

You may encounter issues while installing the operating system and Dell mass storage device drivers using the F6 prompt on a server without a physical diskette drive (**A:**). The text mode portion of the Windows Setup requires that additional mass storage drivers that are provided through the F6 prompt be located on the **A:** (where A is the drive letter for the diskette drive).

This is a limitation on any server that is not configured with a diskette drive and occurs only while installing Windows 32-bit or 64-bit extended operating systems. You do not have to replace any hardware.

To fix this issue, add a physical or virtual diskette drive on your server. The following four options described in the sections below enable you to install Dell drivers on your server:

• Using the Dell PowerEdge Installation and Server Management Media

• Using the DRAC Diskette Image

• Using the Dell USBKeyPrepF6 Utility

• Adding Drivers to Windows Installation

Using the Dell PowerEdge Installation and Server Management Media

Use the *Dell PowerEdge Installation and Server Management* media that shipped along with your server to ensure that all the supported drivers for the Windows operating system are installed.

Using the DRAC Diskette Image

Install the Dell mass storage drivers using Dell Remote Access Card (DRAC) 4 or DRAC 5 diskette images located on the Dell Support website at **support.dell.com**. See the DRAC documentation that is shipped along with your server to set up virtual diskette drive media.

NOTE: You can install drivers using this procedure only if your server has a DRAC installed and configured.

Using the Dell USBKeyPrepF6 Utility

This section describes how to prepare a Universal Serial Bus (USB) key for use with the F6 prompt on Dell mass storage devices. The Dell USBKeyPrepF6 Utility helps you to prepare a USB key to use with the F6 prompt only during the installation of Windows Server 2003 operating systems.

1. Go to the Dell Support website located at **support.dell.com**.

2. Click **Drivers and Downloads**.

3. You can either enter your Service Tag or choose the Product Type and Product Model. After you enter this information, click **Go**.

4. From the **Choose Operating System Type** drop-down menu, select your version of the Microsoft Windows Server 2003 operating system.

5. Click **Find Downloads**.

6. Expand the group titled **System and Configuration Utilities**.

7. Click **Dell USBKeyPrepF6 Utility**.

8. Download the utility and unzip it.

9. Follow the instructions in the **readme.txt** file.

NOTICE: All data on the USB key will be erased when you format it using this utility.

10. Go to the Dell Support website from which you downloaded the Dell USBKeyPrepF6 Utility. Expand the group for your controller type.

11. Select the type of controller for your system and download the Dell mass storage device driver to a location that you can access later.

    Ensure that you choose the **Hard-Drive Package** option.(You will need this driver when using the Dell USBKeyPrepF6 Utility).

NOTE: After you successfully install the drivers, you must reformat the USB key using the Windows Disk Management application in order to get the USB key back to a normal usable state.

Adding Drivers to Windows Installation

Use an automated deployment method to add Original Equipment Manufacturer Plug and Play drivers to your Windows installation. For more information on using this method, see the following Microsoft knowledge base articles:

- http://support.microsoft.com/kb/254078/en-us
- http://support.microsoft.com/kb/816299/en-us

 NOTE: You can download the latest Broadcom drivers from the Dell Support website at **support.dell.com**.

Installing Microsoft Windows Server 2003 R2, x64 Datacenter Edition With Unlimited Virtualization With SP2 Using the Operating System Media

 NOTE: If you use the Dell Recovery media to install the operating system, you must install the latest device drivers located either on the *Dell PowerEdge Service and Diagnostic Utilities* media or the Dell Support website at **support.dell.com/support/downloads**. If you are reinstalling the operating system using this recovery media, download the latest updates from the Microsoft Windows Update website located at **update.microsoft.com**.

1 Connect a keyboard, monitor, mouse, and any additional peripherals to your system.

2 Turn on your system and any attached peripherals.

Several BIOS windows appear during startup, but do not require any user intervention.

3 Insert the *Microsoft Windows Server 2003 R2 x64 Datacenter Edition With Unlimited Virtualization with SP2 Disk 1* media into the media drive.

4 Press <Ctrl><Alt><Delete> to restart your system.

If a Windows operating system is installed on your system, the following message appears:

```
Press any key to boot from your CD...
```

5 Press any key to boot from the media.

If a Windows operating system is *not* installed on your system, the screen turns black. Next, **Windows Setup** appears in text mode on a blue screen.

6 Immediately press <F6> if you need to install additional device drivers for the boot device or other devices and perform the following procedure. If you do not need to install additional device drivers, go to step 7.

   a When prompted, press <S> to select and add any additional devices.

   b Insert the device driver diskette into the diskette drive and press <Enter>.

   A list of device drivers appears.

   c Select the appropriate device driver, and press <Enter>.

   Windows Setup loads the appropriate drivers on your system.

   d Verify that Windows loaded the correct device driver on your system.

   e Repeat step a through step d to install any additional device drivers. Otherwise, press <Enter> to continue.

   A message appears stating that Windows Setup is starting Windows.

7 In the **Welcome to Setup** window, press <Enter> to continue.

8 If Console Redirection *is not* enabled on your system, go to "Running Custom Setup" on page 13.

If Console Redirection is enabled on the system, choose one of the following selections:

   • **Express Setup** — Automatically configures most of your configuration settings, requiring little or no user intervention.

   To run Express Setup, press <Enter> and go to "Running Express Setup."

   • **Custom Setup** — Enables you to customize your system name and networking components, including TCP/IP and your domain name.

   To run custom setup, press <C> and go to "Running Custom Setup."

Running Express Setup

1 When prompted from the **Windows Server 2003 Setup** screen, enter the administrator password and press <Enter>.

2 When prompted to confirm the password, re-enter the administrator password and press <Enter>.

3 If the **Windows Licensing Agreement** window appears, go to step 4.

If the **Windows Licensing Agreement** window *does not* appear, go to step 5.

4 Read the information carefully. If you agree with all of the information, press <F8> to continue.

A window appears displaying the existing partitions and unpartitioned space on your system's hard drive.

If you do not agree with the information, press <Esc>. Your system restarts, and Windows is not installed on your system.

5 Select an available partition to install the operating system and press <Enter>.

6 Select the appropriate file system for your Windows partition, and then press <Enter>.

> **NOTE:** For maximum security, Dell recommends that you format the partition using NTFS.

> **NOTE:** This process may take a few minutes to complete.

7 Remove the driver diskette from the diskette drive.

When prompted, do not press any key to boot from media.

The **EMS Connection Detected** window appears after the system reboots.

8 Click **OK** or press <Enter> to continue.

An error message pop-up window may appear, stating that a setup parameter is missing or invalid.

NOTE: If you are not using the media provided by Dell, enter the Windows product key at this stage.

Windows Setup completes the installation procedure and restarts your system.

NOTE: This process may take several minutes to complete.

Windows Setup automatically logs you onto your system. The system prompts you to insert the *Microsoft Windows Server 2003 R2 x64 Datacenter Edition Unlimited Virtualization with SP2 Disk 2* media.

NOTE: To install the optional R2 components, click **OK** and then see "Installing the R2 Components" on page 22 to complete the installation.

9 Click **Cancel** to proceed with the operating system installation without installing the optional R2 components.

A **Windows Setup** dialog box appears with directions on how to install the optional R2 components at a later time.

10 Click **OK**.

The **Manage Your Server** window appears.

The operating system is installed on your system.

NOTE: Dell recommends that you download and install any patches, hotfixes, and service packs from the Microsoft Support website at **support.microsoft.com**.

NOTE: Windows Setup randomly selects your computer name to avoid identical name conflicts on your network and configures your system to join the WORKGROUP workgroup. You can join your system to your domain after the operating system is installed on your system.

NOTE: If you are installing the Hardware Management component on a recently-released Dell system, a message appears about the third-party IPMI drivers. For more information on this message, see *Microsoft Windows Server 2003 R2, x64 Datacenter Edition With Unlimited Virtualization With SP2 Important Information* located on the Dell support website at www.dell.com/ostechsheets.

Running Custom Setup

1 When the **Windows Licensing Agreement** window appears, read the information carefully.

If you agree with all the information, press <F8> to continue. A window appears displaying the existing partitions and unpartitioned space on your system's hard drive.

If you do not agree with the information, press <Esc>. Your system restarts, and Windows is not installed on your system.

> **NOTE:** If your hard drive has an existing Windows partition, you may receive an option to repair the partition. Press <Esc> to continue the installation procedure.

2 Select an available partition to install the operating system and press <Enter>.

> **NOTE:** Dell recommends that you create a partition of 12 GB or larger.

3 Select the appropriate file system for the Windows partition, and then press <Enter>.

> **NOTE:** For maximum security, Dell recommends that you format the partition using NTFS.

Windows Setup formats your partition with the selected file system and copies the operating system files to your system.

> **NOTE:** This process may take a few minutes to complete.

4 Remove the driver diskette from the diskette drive and press <Enter> to restart your system.

If you do nothing, Windows Setup automatically restarts the system after 15 seconds.

When prompted, *do not* press any key to boot from the media.

If Console Redirection is enabled, the **EMS Connection Detected** window appears. Click **OK** to continue.

The **Windows Setup** window appears and displays the installation progress.

The **Installing Device** window appears, and your screen flashes a few times. This behavior is normal.

Finally, the **Regional and Language Options** window appears.

5 Review the displayed default settings.

If the default settings are correct, perform the following steps:

a Click **Next**.

The **Personalize Your Software** window appears.

b Go to step 6.

If the default settings are *not* correct, perform the following steps:

a Click **Customize**.

The **Regional and Language Options** window appears.

b In the **Regional Options** tab, modify the regional and location settings (if required) and click **OK**.

The **Regional and Language Options** window appears.

c Click **Details**.

The **Text Services and Input Languages** window appears.

d In the **Settings** tab, modify the default input language and installed services (if required), click **OK**, and then click **Next** to continue.

The **Personalize Your Software** window appears.

6 Type your full name and the name of your company or organization, and click **Next**.

> **NOTE:** If you are not using the media provided by Dell, enter the Windows product key at this stage.

The **Licensing Modes** menu appears.

7 Select one of the following options and click **Next**:

• **Per server**

If you select **Per server**, you must enter the number of concurrent connections included with your Client Access License in the drop-down menu.

• **Per Device** or **Per User**

If you select **Per Device** or **Per User**, the license manager verifies that each individual system has a valid license at log in.

The **Computer Name and Administrative Password** window appears.

8 Type your computer name and administrator password, and click **Next**.

The **Date and Time Settings** window appears.

9 Set the date, time, and time zone for the system, and click **Next**.

Windows Setup begins installing the network components.

NOTE: This procedure may take several minutes.

The **Networking Settings** window appears.

10 Select one of the following settings, and click **Next**:

NOTE: Dell recommends that you select **Typical Settings**.

- **Typical Settings** (default) — Configures your system with the default settings.
- **Custom Settings** (experienced administrators only) — Allows you to configure the following settings in the **Networking Components** window for each network adapter on the system:
  - Client for Microsoft Networks
  - Network Load Balancing
  - File and Printer Sharing for Microsoft Networks
  - Internet Protocol (TCP/IP)

11 If you selected **Custom Settings** and need to install additional network components, perform the following steps in the **Networking Components** window:

a Click **Install**.

The **Select Network Component Type** window appears.

b Select the type of network component.

c Click **Add**.

d Select a network component or network service, and click **OK**.

The **Networking Components** window appears.

12 Click **Next**.

The **Workgroup or Computer Domain** window appears.

13 Select one of the following options:

- **No, this computer is not on a network, or is on a network without a domain. Make this computer a member of the following workgroup:**

  Requires you to assign a workgroup name to your system. Choosing this selection allows any system on the LAN with the same workgroup name to connect to your system.

  Enter a workgroup name, and click **Next**.

- **Yes, make this computer a member of the following domain:**

  Enter the appropriate domain name, and click **Next**.

  The **Join Computer to <*your_domain_name*> Domain** window appears. Enter a domain administrator user name and password, and click **OK**.

  NOTE: You must have the appropriate rights to join the domain.

  Windows Setup continues the installation procedures, and then restarts your system.

  NOTE: This procedure may take several minutes.

  The **Welcome to Windows** window appears.

14 Press <Ctrl><Alt><Delete>.

The **Log On to Windows** dialog box appears.

15 Type your administrator password, and click **OK**.

The system prompts you to insert the *Microsoft Windows Server 2003 R2 x64 Datacenter Edition With Unlimited Virtualization With SP2 Disk* 2 media into the media drive.

NOTE: To install the optional R2 components, click **OK** and then see "Installing the R2 Components" on page 22 to complete the installation.

16 Click **Cancel** to proceed with the operating system installation without installing the optional R2 components.

A Windows Setup dialog box appears with directions on how to install the optional R2 components at a later time.

17 Click **OK**.

The **Windows Server Post-Setup Security Updates** window appears.

> **NOTE:** At this time, your Windows firewall is active. Dell recommends that you update your system with the latest critical security updates and configure **Automatic Updates** before you click **Finish**.

18 Click **Finish**.

The following warning message appears:

```
When you close this page, inbound connections to
this server will be allowed. Before continuing,
ensure that you have downloaded and installed
all available security updates.
```

19 Click **Yes** to close the window.

The **Manage Your Server** window appears.

The operating system is now installed on your system.

If you need additional information to complete the rest of the installation, see the documentation that came with your software or go to the Microsoft Support website at **support.microsoft.com**.

> **NOTE:** Dell recommends that you download and install any patches, hotfixes, and service packs from the Microsoft Support website at **support.microsoft.com**.

Installing Microsoft Windows Server 2003 R2, x64 Datacenter Edition With Unlimited Virtualization With SP2 Using the Dell PowerEdge Installation and Server Management Media

> **NOTE:** The information in this section is not applicable to Korean and Traditional Chinese regions.

> **NOTE:** Some Dell systems use the *Dell PowerEdge System Support* media instead of the *Dell PowerEdge Installation and Server Management* media. When using this document, substitute the *Dell PowerEdge System Support* media, if applicable, and follow the instructions given for the *Dell PowerEdge Installation and Server Management* media.

NOTE: If you purchased a Dell system without an operating system, Dell strongly recommends that you use the supported version of the *Dell PowerEdge Installation and Server Management* media to guide you through the the operating system installation. The *Dell PowerEdge Service and Diagnostic Utilities* media contains the latest drivers available at the time you purchased your Dell system. See the Dell Support website at **support.dell.com/support/downloads** for any updated drivers that were not included on your *Dell PowerEdge Service and Diagnostic Utilities* media.

To perform a clean installation of the operating system:

1 Connect a keyboard, mouse, and monitor to your system.

2 Turn on your system.

3 Insert the *Dell PowerEdge Installation and Server Management* media into the media drive.

4 Press <Ctrl><Alt><Delete> to restart your system.

5 If you are not using the *Dell PowerEdge Installation and Server Management* media for the first time, the **Welcome to Dell OpenManage Server Assistant** window appears. Go to step 6.

   If you are using the *Dell PowerEdge Installation and Server Management* media on your system for the first time, perform the following steps:

   a When prompted, click the appropriate language for your system.

      The **Dell Software License Agreement** window appears. Read the information carefully.

   b If you agree with all of the information, click **Accept** to continue.

      If you *do not* agree with all the information, click **Decline**. Your system restarts, and you are not able to complete the operating system installation.

6 Click **Click Here for Server Setup** to install the operating system.

   The **Set the Date and Time** window appears.

7 Select the appropriate date, time, and time zone, and click **Continue**.

8 Select **Microsoft Windows Server 2003 x64 Edition** in the S**elect an Operating System** to Install window that appears.

9 Click **OK** and then click **Continue**.

If a RAID controller *is not* installed in your system, the **Select Operating System** window appears. Go to step 10.

If a RAID controller is installed on your system, the **Configure or Skip RAID** window appears. Perform the following steps:

a Select one of the following options, and click **Continue**:

- **Configure RAID**
- **Skip RAID configuration**

b If you selected **Skip RAID configuration**, go to step 10.

c If you selected **Configure RAID**, configure the RAID with one of these options:

- Click **Go to Advanced Wizard** at the top left of the page and follow the prompts.
- Select a RAID level and click **Continue**.

The RAID configuration summary will appear.

d Click **Continue**. The following message will appear:

```
All existing virtual disk(s) on this controller
will be deleted and all data will be lost.
```

e Click **OK** to continue.

10 To set up a new boot partition, select the appropriate file system and size for your partition and click **Continue**.

NOTE: For maximum system security, Dell recommends selecting NTFS File System.

NOTE: If there is an existing partition on the hard drive, the **Confirm to delete partition** window appears. Click **Continue**. Server Assistant deletes all existing partitions on the hard drive.

The **Network Adapter(s) configuration** window appears.

11 Select one of the following options and click **Continue**:

- **Obtain IP address from DHCP server.**
- **Specify an IP address**

The **Enter Configuration Information: Microsoft Windows Server 2003 x64 Edition** window appears.

12 Type your system information in the appropriate fields and click **Continue**.

> 📝 **NOTE:** If you are not using the media provided by Dell, you will be prompted to enter the Windows product key at this stage.

The **Operating System Installation Summary** window appears.

13 If the configuration settings are correct, click **Continue**.

The **Microsoft Windows Installation Wizard** window appears and the file copy process starts.

If the configuration settings are not correct, perform the following steps:

a Click **Back** until the appropriate screen appears.

b Enter the correct information.

c Click **Continue** until the **Microsoft Windows Installation Wizard window** appears.

14 When prompted, insert the *Microsoft Windows Server 2003 R2 x64 Datacenter Edition With Unlimited Virtualization with SP2 Disk 1* media into the media drive.

The **Dell OpenManage Server Assistant** automatically detects the media and begins copying the operating system files.

> 📝 **NOTE:** This procedure may take several minutes to complete.

15 When prompted, remove the media from the media drive, and click **Finish**.

Your system automatically restarts, Windows Setup appears in text mode, and the installation continues.

> 📝 **NOTE:** If Console Redirection is enabled in the System Setup program, you are prompted for an administrator password in the text mode of Windows Setup. Enter an administrator password and press <Enter> to continue. The Emergency Management System window appears. Click OK to continue.

Windows Setup automatically and restarts your system, and the **Windows Setup** window appears.

Windows Setup completes the installation and restarts your system.

16 In the **Log On** window, type your administrator password, and click **OK**.

The system prompts you to install the *Windows Server 2003 R2 Disk 2* media.

    📝 **NOTE:** If you want to install the optional R2 components, click **OK** and then see the "Installing the R2 Components" on page 22 section to complete the installation.

17 Click **Cancel** to proceed with the operating system installation without installing the optional R2 components.

A Windows Setup dialog box appears with directions on how to continue with the second media install at a later time.

18 Click **OK**.

The **Windows Server Post-Setup Security Updates** window appears.

    📝 **NOTE:** At this time, your Windows firewall is active. Dell recommends that you update your system with the latest critical security updates and configure **Automatic Updates** before you click **Finish**.

19 Click **Finish**.

The following warning message appears:

```
When you close this page, inbound connections to
this server will be allowed. Before continuing,
ensure that you have downloaded and installed
all available security updates.
```

20 Click **Yes** to close the window.

The **Manage Your Server** window appears.

The R2 operating system is now installed on your system.

If you need additional information to complete the rest of the installation, see the documentation that came with your software or go to the Microsoft Support website at **support.microsoft.com**.

    📝 **NOTE:** Dell recommends that you download and install any patches, hotfixes, and service packs from the Microsoft Support website at **support.microsoft.com**.

Installing the R2 Components

NOTE: Installing the R2 components enables you to use additional features like scalability, security-enhanced Web platform, simplified branch server management, improved identity and access management, and efficient storage management. Windows Server 2003 SP2 applies updates to the R2 components. Windows Server 2003 SP2 does not upgrade Windows Server 2003 to Windows Server 2003 R2.

Perform the steps below to install the optional R2 components:

1   Insert the *Microsoft Windows Server 2003 R2 x64 Datacenter Edition With Unlimited Virtualization With SP2 Disk 2* media into the media drive, and then click **OK**.

    The Welcome to the Windows Server 2003 R2 Setup Wizard window appears.

2   Click **Next**.

    The **End-User License Agreement** window appears.

3   If you agree with the information, accept the license terms and click **Next.**

    The **Setup Summary** window appears.

    Click **Cancel,** if you do not agree with the information. You cannot proceed with the installation of the optional R2 components.

4   Click **Next**.

    The **Completing Windows Server 2003 R2 Setup** window is displayed.

5   Click **Finish.**

The following is a list of the optional R2 components available on the *Microsoft Windows Server 2003 R2 x64 With Datacenter Edition With Unlimited Virtualization with SP2 Disk 2* media:

NOTE: For more information on the R2 components, go to www.microsoft.com/WindowsServer2003/R2/default.mspx

•   Microsoft Active Directory®Application Mode

•   Active Directory Federation Services

•   Identity Management for UNIX®

•   Distributed File System

- File Server Management
- File Server Resource Manager
- Hardware Management
- Print Management Component
- Storage Manager for SANs
- Microsoft.NET Framework 2.0
- Common Log File System
- Microsoft Services for NFS
- Subsystem for UNIX-based Application
- Windows SharePoint® Services

NOTE: If you are installing the Hardware Management component on a recently-released Dell system, a message appears containing information about third-party IPMI drivers. For more information on this message, see the *Microsoft Windows Server 2003 R2, x64 Datacenter Edition With Unlimited Virtualization With SP2 Important Information* document at **www.dell.com/ostechsheets**.

Perform the steps below to install a specific R2 component on your system:

1. Log on as an administrator.

2. Click **Start→ Settings→ Control Panel,** and then double-click on **Add or Remove Programs.**

3. Click on **Add/Remove Windows Components**.

   The **Windows Components Wizard** window appears.

4. Select the R2 components you want to install, and follow the prompts on the screen to complete the installation.

Important Information

See *Microsoft Windows Server 2003 R2, x64 Datacenter Edition With Unlimited Virtualization With SP2* Important Information at **ww.dell.com/ostechsheets** for the following information:

- Minimum supported BIOS versions, firmware, and RAID controller driver versions
- Instructions for dealing with known issues and problems

Getting Help

If at any time you do not understand a procedure described in this document or if your system does not perform as expected, Dell provides a number of tools to help you. For more information about these tools, see "Getting Help" in your *Installation and Troubleshooting Guide* or *Hardware Owner's Manual*.

Additional technical information is available from the Dell Support website at **support.dell.com**.

Dell Advanced Software Support

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

Technical assistance for Microsoft Windows Server 2003 R2, x64 Datacenter Edition With Unlimited Virtualization With SP2 operating system is provided through a fee-based service called the Advanced Software Support. For more information about this service, see the Dell Support website at **support.dell.com**.