Dell™ OpenManage™ Software

Quick Installation Guide

Notes and Notices

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

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

Contents

The *Dell OpenManage Software Quick Installation Guide* is available in English, French, German, Spanish, Japanese, and Simplified Chinese on the *Dell Systems Management Tools and Documentation* DVD and on the Dell Support site at **support.dell.com**.

Maximizing the Value of Your Dell System

The *Dell Systems Management Tools and Documentation* DVD provides:

- **Streamlined installation, setup and configuration** — Provides the necessary tools that reduce the time required for setting up and configuring Dell™ systems and software. These tools permit automatic discovery and configurations of Dell-provided RAID controllers and network adapters thereby reducing the time required for the installation of the following operating systems:

  - Microsoft® Windows®
  - Red Hat® Enterprise Linux®
  - SUSE® Linux Enterprise Server

- **Utilities, drivers, and diagnostics** — Allows you to use the latest Dell-optimized drivers, utilities, and Online (operating system-based) diagnostics to update your system.

- **Systems Management** — Installs Dell OpenManage™ software applications that help enhance systems management experience and automate the administration of your systems. These applications provide the tools needed to remotely monitor, diagnose, and update your systems.

- **Documentation** — Allows quick access to available system, systems management software, RAID controller, and peripheral documents in supported languages.

  Ø **NOTE:** To view documentation on systems running Red Hat Enterprise Linux or SUSE Linux Enterprise Server operating systems, on the *Dell Systems Management Tools and Documentation* DVD, launch **index.htm** located at **<DVD_drive>\docs\<language_directory>**.

Dell OpenManage Subscription Service Kit

The Dell OpenManage subscription service kit is a collection of two DVDs:

- *Dell Systems Management Tools and Documentation* DVD
- *Dell Server Updates* DVD

In addition to helping you install, configure, and update programs and operating systems, these DVDs also provide newer versions of software for your system. The *Dell Server Updates* DVD is available only to those customers who have subscribed to the subscription service.

Dell Systems Management Tools and Documentation DVD Directories and Contents

The *Dell Systems Management Tools and Documentation* DVD contains the following directories:

• *<DVD root>*

  The Dell Systems Build and Update Utility resides at the root of the DVD. Some of the tasks you can perform using this utility are:

  • Update your system firmware and install an operating system

  • Update the firmware and BIOS in a pre-operating system environment on multiple systems

  • Configure your system hardware

  • Customize the Server Update Utility (SUU) and use it to update your system

- **SYSMGMT**

  The **SYSMGMT** directory contains the systems management software products including Dell OpenManage Server Administrator located in the **srvadmin** directory. It also contains all the latest Dell systems management console products, including Dell OpenManage IT Assistant (in the **ManagementStation** directory), Dell Remote Access Controller Tools (in the **ManagementStation** directory), Baseboard Management Controller Management Utility Console (BMC Utilities) (in the **ManagementStation** directory), and Active Directory™ Snap-in Utility (in the **ManagementStation** directory).

- **docs**

  The **docs** directory contains documentation for systems, systems management software products, peripherals, and RAID controllers.

- **SERVICE**

  The **SERVICE** directory provides the tools you need to manage your system, and delivers the latest diagnostics and Dell-optimized drivers for your system.

All the directories contain **readme** files, which provide the latest product information.

Compare the contents of your system accessories box with the packing slip or invoice enclosed with your system. If any components are missing or damaged, call Dell within 30 days of the invoice date for a free replacement. For more information, see "Obtaining Technical Assistance."

Systems Management Software Overview

Dell OpenManage systems management software is a suite of applications for Dell systems. This software allows you to manage your system with proactive monitoring, notification, and remote access.

Each system that you plan to manage with Dell OpenManage software products is called a *managed system*. *Managed system* applications include Server Administrator and Remote Access Controller (RAC) software.

A *management station* can be used to remotely manage one or more *managed systems* from a central location.

NOTE: The option to install Dell OpenManage Array Manager Console (for management station) is available under Windows only if you have installed an earlier version the Array Manager Console. You can only upgrade the earlier version to a later version.

Table 1-1 describes the Dell OpenManage products.

Table 1-1. Dell OpenManage Systems Management Software Applications

Software Product	Function	DVD Name and DVD Path	Description
Dell Systems Build and Update Utility	Server setup and operating system installation	*Dell Systems Management Tools and Documentation* DVD Located at the DVD root directory	A utility that provides: • Step-by-step system configuration including RAID controllers and network interfaces • Installation support for Windows, Red Hat Enterprise Linux, and SUSE Linux Enterprise Server operating systems • Dell-optimized device drivers for Dell systems

Table 1-1. Dell OpenManage Systems Management Software Applications *(continued)*

Software Product	Function	DVD Name and DVD Path	Description
Dell OpenManage Server Administrator	Local system management, including RAID configuration and management	*Dell Systems Management Tools and Documentation* DVD Located at the **<DVD_drive>\SYSMGMT\srvadmin** directory	A management solution for Dell systems that provides a consolidated and consistent way to monitor, configure, and manage individual Dell systems. Server Administrator provides the following features: • Security management through role-based access control (RBAC), authentication, and encryption • Ability to review and report the configuration and status of a host-based RAID subsystem

Table 1-1. Dell OpenManage Systems Management Software Applications *(continued)*

Software Product	Function	DVD Name and DVD Path	Description
			• Rapid access to detailed fault and performance information that is reported in the user interface and extensive logging
			• Allows local administration and support for remote administration of the local system
			• Enhanced features for configuring a system's locally attached RAID and non-RAID disk storage
			• Storage management information in an integrated graphical view
			• Status of local and remote storage attached to a monitored system

Table 1-1. Dell OpenManage Systems Management Software Applications *(continued)*

Software Product	Function	DVD Name and DVD Path	Description
			• Support for SAS, SCSI, SATA, and ATA, but not for Fiber Channel
			• Ability to perform controller and enclosure functions for all supported RAID and non-RAID controllers and enclosures from a single graphical interface or CLI, without the use of the controller BIOS utilities
			• Ability to protect your data by configuring data redundancy, assigning hot spares, or rebuilding failed drives
			• A command line interface (CLI)

Table 1-1. Dell OpenManage Systems Management Software Applications *(continued)*

Software Product	Function	DVD Name and DVD Path	Description
RAC (CMC, iDRAC, DRAC 5, DRAC 4, DRAC III, DRAC III/XT, DRAC/MC, ERA, ERA/O, and ERA/MC)	Local and remote systems management	*Dell Systems Management Tools and Documentation* DVD For Windows systems, the location is **<DVD_drive>\SYSMGMT\ManagementStation\windows\ManagementStation**. For Linux systems, it is **<DVD_drive>/SYSMGMT/ManagementStation/linux/rac**	These hardware and software solutions perform the following functions: • Remote administration of monitored systems, including BIOS setup, shutdown, start up, and RAC security • Provide alert messages for system problems and enable remote system management • Provide remote access to an inoperable system, allowing you to obtain complete control of the local console • Help improve the overall availability of Dell systems

**Table 1-1. Dell OpenManage Systems Management
Software Applications *(continued)***

Software Product	Function	DVD Name and DVD Path	Description
IT Assistant	Status and reporting	*Dell Systems Management Tools and Documentation* DVD Located at the **<DVD_drive>\SYSMGMT\ManagementStation\windows\ManagementStation** directory	A systems management console program, usually installed on one management station to collect information and provide a view of all managed systems. IT Assistant performs the following functions: • Inventory and asset reporting including service tag number, cost of ownership information, and specifics of the BIOS, microprocessors, and memory • Fault monitoring with notification through e-mail or console alerting to keep administrators informed of events reported from disk, memory, voltage, fan, and thermal conditions

Table 1-1. Dell OpenManage Systems Management Software Applications (continued)

Software Product	Function	DVD Name and DVD Path	Description
			• In-context launch of device-specific tools such as Server Administrator, Remote Access console, Dell PowerConnect™ switch console, Digital KVM console, and Printer console

Table 1-1. Dell OpenManage Systems Management Software Applications *(continued)*

Software Product	Function	DVD Name and DVD Path	Description
RAC Utility	Remote management	*Dell Systems Management Tools and Documentation* DVD For Windows systems, the location is **<DVD_drive>\SYSMGMT\ManagementStation\windows\ManagementStation**. For Linux systems, it is **<DVD_drive>/SYSMGMT/ManagementStation/linux/rac**	This software solution performs the following functions: • Provides remote access to an inoperable system, allowing you to obtain complete control of the local console • Remote administration of monitored systems, including BIOS setup, shutdown, start up, and RAC security

Table 1-1.   Dell OpenManage Systems Management Software Applications *(continued)*

Software Product	Function	DVD Name and DVD Path	Description
BMC Management Utility (BMU)	Remote management *(continued)*	*Dell Systems Management Tools and Documentation* DVD For Windows systems, the location is **<DVD_drive>\SYSMGMT\ManagementStation\windows\ManagementStation**. For Linux systems, it is **<DVD_drive>/SYSMGMT/ManagementStation/linux/bmc**	A utility that provides remote management and configuration of systems equipped with a baseboard management controller (BMC) using the IPMI protocol.

Table 1-1. Dell OpenManage Systems Management Software Applications *(continued)*

Software Product	Function	DVD Name and DVD Path	Description
Active Directory Snap-in Utility	Management of Dell-specific Microsoft Active Directory® objects	*Dell Systems Management Tools and Documentation* DVD Located at the **<DVD_drive>\SYSMGMT\ManagementStation\windows\ManagementStation** directory	Provides an extension snap-in to the Microsoft Active Directory. This allows you to manage Dell-specific Active Directory objects. The Dell-specific schema class definitions and their installation are also included on the DVD. You can use this option when the Dell-specific schema classes have been added to the Active Directory schema.

**Table 1-1. Dell OpenManage Systems Management
Software Applications** *(continued)*

Software Product	Function	DVD Name and DVD Path	Description
System Software Extraction Utility	Driver identification and installation to update your system	*Dell Systems Management Tools and Documentation* DVD Located at the **SERVICE** directory	Delivers the latest Dell-optimized drivers, utilities, and operating system-based diagnostics for your system.
Dell Online Diagnostics	Diagnose the health of your Dell system	*Dell Systems Management Tools and Documentation* DVD Located at the **SERVICE** directory	Runs operating system-based diagnostics that diagnose the health of your Dell system.

**Table 1-1.   Dell OpenManage Systems Management
Software Applications *(continued)***

Software Product	Function	DVD Name and DVD Path	Description
Server Update Utility (SUU) and Dell Update Packages (DUPs)	Software updates	*Dell Server Updates* DVD Shipped only with the subscription service kit	Provides newer versions of drivers, firmware, and software for your system through the SUU and DUP.

For information about various Dell systems, the operating systems
supported by these systems, and the Dell OpenManage
components that can be installed on these systems, see the latest
Dell Software Support Matrix on the Dell Support website at
support.dell.com.

Installing Your Operating System Using Dell Systems Build and Update Utility

Perform the following steps to determine if an operating system has been installed on your system:

1 Start the system.

2 Read and accept the software license agreement to continue.

If a message appears and states that bootable drives do not exist or that an operating system was not found, then an operating system has not been installed on your system. Have your operating system CD available and continue with the next steps.

If an operating system has been preinstalled on your system, it is not necessary to continue with this process. Locate the operating system's installation instructions document provided with your system and follow the instructions to complete the installation process.

Perform the following steps to install an operating system on your system:

 1 Insert the *Dell Systems Management Tools and Documentation* DVD and restart your system.

    The following options are available during system boot:

    • **Dell Systems Build and Update Utility**

      Takes you to the **Dell Systems Build and Update Utility Home** screen.

    • **Optical Media (DVD) Check**

      Checks if the DVD is created correctly and validates the content.

    • **Skip Optical Media (DVD) Boot - Boot to Hard Drive**

      Boots from the hard drive and verifies if an operating system is installed on your system. If an operating system is not installed on your system, boots from the DVD.

    NOTE: If you do not select an option within 10 seconds, the system automatically boots through the DVD.

- **DTK Command Line Interface (Linux)**

  Launches the command line interface of Dell OpenManage Deployment Toolkit.

  📖 **NOTE:** This option is available only on Linux systems. This option is not available on Dell PowerEdge™ SC systems.

2 Click **Server OS Installation** on the **Dell Systems Build and Update Utility** Home page.

3 Follow the step-by-step instructions to configure your hardware and install your operating system.

For additional information about installing RAID, see *Getting Started With RAID* in the **docs** directory.

When installing the Windows operating system, some hardware configurations with more than 4 GB of physical memory installed require additional steps after operating system installation to completely utilize all installed memory. For more information on Physical Address Extension (PAE), see:

- www.microsoft.com/windows2000/en/advanced/help/ PAE_checklist.htm

- www.microsoft.com/resources/documentation/windowsserv/2003/ enterprise/proddocs/en-us/paex86_2.asp

- www.support.microsoft.com/default.aspx?scid=kb;en-us;283037

NOTE: The *Dell Systems Management Tools and Documentation* DVD contains version 5.5 of the Dell OpenManage systems management software kit and version 1.0.7 of the Dell Systems Build and Update Utility. The root of the DVD also contains ISO images of the Dell Systems Build and Update Utility (version 1.0) and the *Dell Systems Console and Agent* CD (Dell OpenManage software version 5.3.0.1). You can use these ISO images to create CDs for systems that do not have DVD drives. However, if you need version 1.0.7 of the Dell Systems Build and Update Utility (to support *x*6*xx* and *x*7*xx* Dell systems and Windows Server® 2008 operating systems), you can download the ISO image from the Dell Support site at **support.dell.com**.

Post-Installation Icons

When you use Dell Systems Build and Update Utility to install an operating system, Dell Systems Build and Update Utility allows you to copy the relevant systems management software installation files onto the hard drive and places the **Install Server Administrator** and **Delete Server Administrator Installation Files** icons on the desktop. These icons are created only if you are using Windows 2000,

Windows 2003, and Red Hat Enterprise Linux and are not available on the Windows Server 2008 and SUSE Linux Enterprise Server operating systems.

You can use the **Install Server Administrator** icon to install Server Administrator without the DVD. On systems running a supported Windows operating system, clicking this icon brings up the standard installation interface. On systems running a supported Red Hat Enterprise Linux operating system, clicking this icon runs the **Server Administrator** custom installation script. If you do not want to install Server Administrator, remove the installation files by clicking the **Delete Server Administrator Installation Files** icon. After you confirm that you want to continue, all Server Administrator files, including the icons, are removed.

Installing Systems Management Software on a Managed System

The setup program provides both, a **Typical Setup** option and a **Custom Setup** option. The **Typical Setup** option (recommended) automatically installs all the detected software components that are necessary to manage your system. The custom setup option enables you to select the software components you want to install. The procedure in this document is based on the typical setup option.

For details about the custom setup option, see the *Dell OpenManage Installation and Security User's Guide*. The custom setup option allows you to choose if you want to install management station and managed system software in the same or different directories. You can also select the directory for installation.

Installation Guidelines

The following are the guidelines to be followed during installation:

- You have to be logged on as a built-in Administrator to install systems management software on Windows Server 2008. See the Windows Server 2008 Help for information about the built-in Administrator account.

- Systems management software is not supported on Dell PowerEdge SC systems. For a list of currently supported systems, see the latest *Dell Software Support Matrix* on the **docs** directory or on the Dell Support website at **support.dell.com**.

- Install the SNMP agent on your managed system using your operating system medium before installing the managed system software.

- Dell OpenManage Array Manager is no longer supported. If you are upgrading a system (installed with Dell OpenManage version 4.3 or later) that has Array Manager installed, Array Manager will be removed during the upgrade process. You can use the Server Administrator Storage Management Service instead.

- If a 4.2 or earlier version ($>=3.0$) of systems management software is installed on your system, you cannot directly upgrade to version 5.5. To preserve your settings, upgrade to version 4.3, and then upgrade to version 5.5 for the latest software updates. Version 4.3 is available on the Dell Support website at **support.dell.com**.

Installing Managed System Software for Supported Microsoft Windows Operating Systems

1 Log on with administrator privileges to the system running a supported Windows operating system and in which you want to install the managed system components.

2 Verify that your system has a supported browser installed.

3 If you have a RAID controller installed on your system and you plan to install the storage management function, ensure that the device drivers for each RAID controller are also installed.

You can find device drivers on the **SERVICE** directory. You can verify the device driver under Windows by right-clicking **My Computer**, selecting **Manage**, and then clicking **Device Manager.**

4 Insert the *Dell Systems Management Tools and Documentation* DVD into the DVD drive.

The setup program should start automatically. If it does not, click the **Start** button, click **Run**, and then type `x:\autorun.exe` (where x is the drive letter of your DVD drive).

The **Dell OpenManage Install** autorun menu displays.

5 Select the **Dell OpenManage Server Administrator** option and click **Install**.

The **Dell OpenManage Server Administrator** prerequisite status screen displays and runs the prerequisite checks for the managed system. Relevant informational, warning, or error messages, if any, are displayed. Resolve all error and warning situations.

6 Click the **Install, Modify, Repair, or Remove Server Administrator** button.

7 Click **Next** on the **Welcome** screen.

8 Accept the License Agreement and click **Next**.

9 Select **Typical** and click **Next**.

10 Click **Install** to proceed through the installation process.

The setup program automatically installs all the managed system software for your hardware configuration.

11 When the installation is complete, click **Finish** and restart your system if prompted before using the software.

Installing Managed System Software for Supported Red Hat Enterprise Linux Operating Systems or SUSE Linux Enterprise Server Operating Systems

1 Log on as root to the system running a supported Red Hat Enterprise Linux or SUSE Linux Enterprise Server operating system where you want to install the managed system components.

2 Insert the *Dell Systems Management Tools and Documentation* DVD into the DVD drive.

3 If necessary, mount the DVD to a location of your choice using the mount command or a similar command.

> *NOTE:* On the Red Hat Enterprise Linux 5 operating system, DVDs are auto-mounted with the -noexec mount option. This option does not allow you to run any executable from the DVD. You need to manually mount the DVD-ROM and then run the executables.

4 Navigate to the **SYSMGMT/srvadmin/linux/supportscripts** directory. Execute the **srvadmin-install.sh** script as follows:

```
sh srvadmin-install.sh --express
```

or

```
sh srvadmin-install.sh -x
```

The script installs the typical software suite for your system configuration.

> *NOTE:* You can log the output of the RPM installation by adding `2>&1 | tee -a /var/log/srvadmin.log` to the above shell script execution. The resulting command is `sh srvadmin-install.sh 2>&1|tee -a /var/log/srvadmin.log`

5 Start the Server Administrator services with the
`sh srvadmin-services.sh start` command.

✍ **NOTE:** The *Dell Systems Management Tools and Documentation*
DVD contains version 5.5 of the Dell OpenManage systems
management software kit and version 1.0.7 of the Dell Systems Build
and Update Utility. The root of the DVD also contains ISO images of
the Dell Systems Build and Update Utility (version 1.0) and the *Dell
Systems Console and Agent* CD (Dell OpenManage software
version 5.3.0.1). You can also download Web packages of versions 5.5
of the Dell OpenManage Server Administrator and Dell OpenManage
Management Station software from the Dell Support site at
support.dell.com. You can transfer the contents of these Web
packages to CDs or USB keys for systems that do not have
DVD drives.

Installing Systems Management Software on a Management Station

The **Typical** installation installs IT Assistant, DRAC Tools, and BMC.
To choose the software components for installation or to install
other features such as the Active Directory Snap-in Utility, see the
Custom installation section of the *Installation and Security User's Guide*.

You can install management station and managed system software in the same directory or different directories. You can also select the directory for installation.

NOTE: Only DRAC Tools and BMU are supported on the Red Hat Enterprise Linux and SUSE Linux Enterprise Server operating systems.

Pre-Installation Guidelines

The following are some guidelines to be followed before installing the management station software:

- IT Assistant is not a supported feature on the x64 editions of Windows Server 2003 Standard, Windows Server 2003 Enterprise, Windows Server 2008. IT Assistant is also not supported on any edition of Microsoft Windows Small Business Server.

- IT Assistant installation is not supported on systems with systems management software prior to version 4.3. If version 4.2 or an earlier version ($>=3.0$) of the systems management software is installed on your system, you cannot directly upgrade to version 5.5. To preserve your settings, upgrade to

version 4.3, and then upgrade to version 5.5 for the latest software updates. Version 4.3 is available on the Dell Support website at support.dell.com.

- In the absence of a supported database on your system, a fresh installation of IT Assistant 8.x and later prompts you to install Microsoft SQL Server 2005 Express Edition. SQL Server 2005 Express Edition can be installed before installing the management station software. However, IT Assistant works with Microsoft SQL Server 2000 Desktop Engine (MSDE 2000) or SQL Server 2000, if it is already installed on your system. If you are upgrading from IT Assistant 7.x to 8.x and later, you can use the existing MSDE 2000 or SQL Server 2000. For more information, see the *IT Assistant User's Guide*.

Installing Management Station Software on Microsoft Windows Operating Systems

To install applications onto the management station, perform the following steps:

1 Log on with administrator privileges to the system where you want to install the management station applications.

2 Insert the *Dell Systems Management Tools and Documentation* DVD into the DVD drive.

Click the **Start** button, click **Run**, and then type `x:\autorun.exe` (where x is the drive letter of your DVD drive).

The **Dell OpenManage Install** autorun menu is displayed.

3 Select the **Dell OpenManage Management Station** option and click **Install**.

The **Dell OpenManage Management Station** prerequisite status screen is displayed and runs the prerequisite checks for the management station. Relevant informational, warning, or error messages, if any, are displayed. Resolve all error and warning situations.

NOTE: In the absence of a supported database, the prerequisite checker provides a link to install SQL Server 2005 Express Edition. Click the link to install the database. If you choose to proceed without installing the database, IT Assistant will not be installed.

4 Click the **Install, Modify, Repair, or Remove Management Station** button.

Microsoft Windows Installer is launched and the **Welcome** screen is displayed.

5 Click **Next**.

The **License Agreement** screen is displayed.

6 Select **I Accept** and click **Next**.

The **Setup Type** screen is displayed.

7 Select **Typical** and click **Next**.

The **Ready To Install** screen is displayed.

8 Click **Install** to accept the selected features and begin installation.

The **Installing Dell OpenManage Management Station** screen is displayed. Messages are displayed, indicating the status and progress of the software components being installed.

When the selected components are installed, the **Install Wizard Completed** dialog box is displayed.

9 Click **Finish** to exit the **Dell OpenManage Management Station** installation.

Installing Management Station Software for Supported Red Hat Enterprise Linux or SUSE Linux Enterprise Server Operating System

BMU and the RAC components of the management station suite of software can be used on a management station running the supported Red Hat Enterprise Linux or SUSE Linux Enterprise Server operating system.

To install BMU on the management station, perform the following steps to launch the installation program:

1 Log on as root to the system where you want to install the management station components.

2 If necessary, mount the DVD to a location of your choice using the mount command or a similar command.

 NOTE: On Red Hat Enterprise Linux 5 operating system, DVDs are auto-mounted with the -noexec mount option. This option does not allow you to run any executable from the DVD. You need to manually mount the DVD-ROM and then run executables.

3 Navigate to the **SYSMGMT/ManagementStation/linux/bmc** directory and install the BMC software using the RPM commands specific to the operating system:

- For systems running Red Hat Enterprise Linux, use:
  ```
  rpm -ivh osabmcutil*-RHEL-*.rpm
  ```

- For systems running SUSE Linux Enterprise Server, use:
  ```
  rpm -ivh osabmcutil*-SUSE-*.rpm
  ```

To install the IPMItool BMC Management Utility, navigate to the operating system sub-directory under **SYSMGMT/ManagementStation/linux/bmc/ipmitool** corresponding to your operating system and execute the `rpm -ivh *.rpm` command.

To install the RAC Management Station component, perform the following steps to launch the installation program:

1 Log on as `root` to the system where you want to install the management station components.

2 If necessary, mount the DVD to a location of your choice using the mount command or a similar command.

> *✍* **NOTE:** On the Red Hat Enterprise Linux 5 operating system, DVDs are auto-mounted with the -noexec mount option. This option does not allow you to run any executable from the DVD. You need to manually mount the DVD-ROM and then run executables.

3 Navigate to the **SYSMGMT/ManagementStation/linux/rac** directory and execute the rpm -ivh *.rpm command.

✍ **NOTE:** The *Dell Systems Management Tools and Documentation* DVD contains version 5.5 of the Dell OpenManage systems management software kit and version 1.0.7 of the Dell Systems Build and Update Utility. The root of the DVD also contains ISO images of the Dell Systems Build and Update Utility (version 1.0) and the *Dell Systems Console and Agent* CD (Dell OpenManage software version 5.3.0.1). You can also download the Web packages of versions 5.5 of the Dell OpenManage Server Administrator and Dell OpenManage Management Station software from the Dell Support site at **support.dell.com**. You can transfer the contents of these Web packages to CDs or USB keys for systems that do not have DVD drives.

Updating Drivers and Utilities

The **SERVICE** directory in the DVD contains device drivers and utilities that you can use to update your system. Copy the drivers and utilities to either a diskette or to your system's hard drive to use them.

Download the latest product updates, such as drivers and Dell OpenManage applications, from the Dell Support website at **support.dell.com**.

NOTE: To extract drivers for systems running Red Hat Enterprise Linux or SUSE Linux Enterprise Server operating systems, use the DVD on a system running Windows and then copy or share the selected files to the final destination system.

  1 Click the **Start** button, click **Run**, and then type
     `x:\SERVICE\setup.exe` (where x is the drive letter of your DVD drive).

  2 Select the system, and from the **Select Drivers/Utilities Set**, select the file set that you want to update, and then click **Continue**.

3 From the **Drivers and Utilities** page, select the utility or driver file that you want to update by clicking the link for the device name.

The system prompts you for a location in which to save the file. Files are delivered in compressed format. Firmware files normally require diskettes for the extraction.

4 Decompress the file.

See the *Dell OpenManage Server Administrator Compatibility Guide* or the *Dell Software Support Matrix* on the **docs** directory for additional information about drivers and Dell OpenManage application versions.

Installing Dell OpenManage on VMware ESX Server Software

The steps for installing Dell OpenManage on VMware® ESX Server™ vary depending on the Dell OpenManage version and ESX Server version; only a limited number of combinations are supported. See the *Installing Dell OpenManage in a VMware ESX Server Software Environment* document at **www.dell.com/vmware** for installation instructions and known issues.

Using Dell OpenManage with Citrix XenServer Dell Edition

Dell OpenManage Server Administrator is pre-installed in Citrix® XenServer Dell Edition™, hence no installation steps are required. See the *Citrix XenServer Dell Edition Solution Guide* at http://support.dell.com/support/edocs/software/Citrix/ for details on using Dell OpenManage with Citrix XenServer Dell Edition.

Installing Dell OpenManage on Microsoft Hyper-V and Hyper-V Server Software

For information on installing Dell OpenManage on Microsoft Hyper-V™ and Hyper-V server, see the *Dell OpenManage Installation and Security User's Guide* on the **docs** directory or on the Dell Support website at **support.dell.com**.

Viewing the Status of the Components of Your Systems and Applying Software Updates

The *Dell Server Updates* DVD ships only with the Subscription Kit and provides newer versions of drivers, firmware, and software for your system through SUU and DUP.

1 Log on with administrator privileges to the system where you want to install the management station applications.

2 Insert the *Dell Server Updates* DVD into the DVD drive on a system running any of the supported Windows, Red Hat Enterprise Linux or SUSE Linux Enterprise Server operating systems.

3 SUU should start automatically. If it does not, click the **Start** button, click **Run**, type cmd, and press **<Enter>**. When the command prompt appears, change directory to the root of the DVD drive. Type suu -g (for graphical mode) or suu -h (to display help options).

> **NOTE:** On the Red Hat Enterprise Linux or SUSE Linux Enterprise Server operating system, the -g (graphical mode) option can only be used from the X Window system.

4 If the GUI initialization fails, install the latest version of OpenIPMI driver. Type suu -g -installIPMI to install the latest version of OpenIPMIdriver.

> **NOTE:** The Server Administrator Instrumentation Service of Server Administrator requires a minimum version of the OpenIPMI device driver in order to provide IPMI-based information and functionality. The minimum version required is defined based on the operating system. See the *Installation and Security User's Guide* for more information.

5 To view a repository comparison on the GUI, click your system's host name displayed in the tree to the left. SUU compares what is on your system with the versions of components available in its Repository. For every component on your system that is current with the version in the SUU Repository, SUU reports a green checkmark icon. For any component on your system that is outdated and can be upgraded using SUU, a green up-arrow icon displays. If updatable components are found, an **Update** button is enabled in the upper right corner of the screen.

6 Click **Update** to apply all updates listed for your system. You cannot selectively apply updates. SUU presents a dialog box asking for confirmation to update the listed components. Click **Yes** to continue.

7 The **Update Success** window appears, confirming successful update for SUU and DUP, and may prompt you to reboot your system to complete the update.

 NOTE: When you click Update in SUU, SUU determines the DUPs applicable to your system and installs them automatically.

See the *Dell OpenManage Server Update Utility User's Guide* for additional information.

Security Patches and Hotfixes

It is strongly recommended that you download and install the latest security patches, hotfixes, and service or support packs for your operating system immediately after installation. Downloads for your operating system are available at **www.microsoft.com, www.redhat.com,** or **www.novell.com.**

Obtaining Technical Assistance

Before contacting Dell for technical assistance, see the Dell Support website at **support.dell.com**. If you need additional technical support, see "Getting Help" in your system's *Hardware Owner's Manual* for country- or region-specific information about contacting Dell by using telephone, fax, and Internet services.

Antes de entrar em contato com a Dell para obter assistência técnica, consulte o site de suporte na Web: **support.dell.com**. Você precisará do número da sua etiqueta de serviço para identificação de seu equipamento. Caso necessite de suporte técnico adicional, é fornecida assistência técnica para hardware ao proprietário original do equipamento. Esse serviço está disponível de segunda a sexta-feira, das 7 às 19:00h, em português. Telefone: 0800-90-3355.

For Dell Enterprise Training and Certification programs, see **www.dell.com/training**. This service may not be offered in all locations.