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################################################################################
DELL OPENMANAGE(TM) INSTALLATION AND SERVER MANAGEMENT README
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Version 4.5.1
Release Date: April 2006

The Dell OpenManage Server Support Kit consists of a suite of four
CDs to assist you in installing, configuring, and updating the
necessary programs and operating systems you need to get your
Dell(TM) PowerEdge(TM) system up and running.

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CRITICALITY
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2 = Recommended

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COMPATIBILITY/MINIMUM REQUIREMENTS
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The following Dell PowerEdge systems are supported on the
"Dell PowerEdge Installation and Server Management" CD version 4.5.1:
1850, 2850, 6800 and 6850.

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RELEASE HIGHLIGHTS - FEATURES
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* Limited installation support for the following systems on
  Microsoft(R) Windows(R) and Linux operating systems:

  - PowerEdge 1850
  - PowerEdge 2850
  - PowerEdge 6800
  - PowerEdge 6850

* Updated Storage Management Service support to include Serial
  Attached SCSI (SAS) controllers

Note: This release supports only PowerEdge 1850, 2850, 6800 and 6850 systems.

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RELEASE HIGHLIGHTS - FIXES
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N/A

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INSTALLATION
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* On Microsoft Windows operating systems, run "setup.exe" from
  the "srvadmin\windows" directory of the CD (not necessary if your
  CD runs automatically) or the software package.

* On Red Hat(R) Enterprise Linux operating systems, to perform an
  "Express Install" with a Remote Access Controller (RAC), navigate
  to the "/srvadmin/linux/express-install-with-RAC4" subdirectory and
  execute the following Red Hat Package Manager (RPM) command (from
  the CD or software package):

  "rpm -Uhv *.rpm"

  Alternatively, execute the "srvadmin-install.sh" script from the
  "/srvadmin/linux/supportscripts" directory as follows:

  "sh srvadmin-install.sh -x"

  The script installs the RAC software only if you have a RAC
  controller present.

* Detailed installation instructions, including silent install
  options, can be found in the "Dell OpenManage Installation and
  Security User's Guide" on the "Dell PowerEdge Documentation" CD.

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##############################################################################
USER NOTES
##############################################################################
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============================================================================
USER NOTES FOR ALL SUPPORTED OPERATING SYSTEMS
============================================================================
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* If a reboot is required after installation of Dell OpenManage
  Server Administrator, the CD must be removed from the CD drive.

* Adaptec utilities are no longer available on the "Installation
  and Server Management" CD. They continue to be available for
  customer downloads from the Dell Support website at
  "support.dell.com."

* The "Dell OpenManage Software Quick Installation Guide" provides
  instructions on how to install the applications on the "Installation
  and Server Management" CD for all supported operating systems. See
  the "QUICK_INSTALL_GUIDE.htm" file in the
  "srvadmin\docs\en\OpenManage_QIG" directory on the "Installation
  and Server Management" CD.

* If you are running any application on the "Installation and Server
  Management" CD, close the application before installing Server
  Administrator applications.

* This version of Dell OpenManage Install only supports upgrades from
  Dell OpenManage systems management software version 4.3 or above.
  If you are using a version prior to 4.3, you must uninstall the
  previously installed version before installing this new version.
  You can also upgrade the previously installed version to version
  4.3 first (if your version is 3.0 or higher), and then upgrade to
  this version.

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USER NOTES FOR SUPPORTED WINDOWS OPERATING SYSTEMS
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* Dell OpenManage Array Manager is not available if previous
  managed system software (with Array Manager installed) is not
  detected. Support for Array Manager will be discontinued in a future
  release. It is recommended that you switch to use Storage Management
  service where applicable.

* To upgrade from Dell OpenManage Array Manager to the enhanced
  Storage Management Service:

  1. Perform an upgrade of your Dell OpenManage systems management
     software suite.

  2. Go to "Add/Remove" programs, select the "Dell OpenManage Server
     Administrator" entry and click "Change."

  3. Follow the wizard and choose the "Modify" option under "Program
     Maintenance."

  4. In the "Custom Setup" screen, choose to install "Storage
     Management" under "Server Administrator" and to uninstall "Array
     Manager." This will remove Array Manager from your system and
     install the enhanced Storage Management Service.

* You should not apply Windows Server(TM) 2003 Service Pack 1 (SP1)
  until you have upgraded your version of Dell OpenManage systems
  management software. If you want to retain your Server
  Administrator settings from an older version of Dell OpenManage
  systems management software, you should first upgrade to Dell
  OpenManage systems management software version 4.3, and then
  upgrade to Dell OpenManage systems management software version
  4.5.1. You must upgrade to Dell OpenManage systems management

software version 4.5.1 before applying SP1.

* In the prerequisite checker screen, you may get the message, "An
  error occurred while attempting to execute a Visual Basic Script.
  Please confirm that Visual Basic files are installed correctly."
  This error occurs when the Prerequisite Checker calls the Dell
  OpenManage "vbstest.vbs" (a Visual Basic [VB]) script to verify
  the installation environment and fails for some reason.

  The possible causes are:

  1. Incorrect Internet Explorer "Security" settings.

     Ensure that "Active Scripting" is enabled by clicking:

     "Tools" -> "Internet Options" -> "Security" -> "Custom Level"
       -> "Scripting" -> "Active Scripting" -> "Enable"

     Ensure that "Scripting of Java Applets" is enabled by
     clicking:

     "Tools" -> "Internet Options" -> "Security" -> "Custom Level"
       -> "Scripting" -> "Scripting of Java Applets" -> "Enable"

  2. Windows Scripting Host (WSH) has disabled the running of VB
     scripts.

     By default, WSH is installed during operating system
     installation. WSH can be configured to prevent scripts
     with a ".VBS" extension from being run. On the Desktop,
     right click "My Computer" then go to "Open" -> "Tools" ->
     "Folder Options" -> "File Types." Look for the extension
     "VBS" and verify that "File Types" is set to "VBScript
     Script File". If not, click "Change" and choose "Microsoft
     Windows Based Script Host" as the application that runs
     the script.

  3. WSH is the wrong version, is corrupted, or is not installed.

     By default, WSH is installed during operating system
     installation. To download the current WSH version, go to:

     "http://msdn.microsoft.com/downloads/list/webdev.asp"

  4. The Scrrun.dll file may not be registered. Register it manually
     by running the following command:

     "regsvr32 Scrrun.dll"

* If you attempt to install this version of Server Administrator
  on a version of Microsoft Windows Server 2003 that ships
  after Windows Server 2003 SP1, you may be informed that Server
  Administrator may conflict with an optional Windows component.
  If you encounter this situation, you should either install a

newer version of Server Administrator that supports the
specified Windows component (if a newer version is available),
or remove the specified component before installing Server
Administrator. To remove an optional component of Windows,
use the "Add/Remove Windows Components" wizard. You can
access this wizard by selecting "Add or Remove Programs"
from the "Control Panel," and then selecting
"Add/Remove Windows Components."

* On Windows operating systems, an upgrade applies only to features
  that are already installed. If you want to add features, you can
  do so from "Add or Remove Programs" after applying the upgrade.

* To perform CLI upgrade on Windows operating systems, enter these
  properties on the command line:

  "REINSTALL=ALL and REINSTALLMODE=vomus"

  For example, to upgrade your systems management software:

   "msiexec /i SysMgmt.msi REINSTALL=ALL REINSTALLMODE=vomus"

* If you burn your own CD, be aware of the following requirement:
  MSI requires all installers to specify the "MEDIAPACKAGEPATH"
  property if the MSI file does not reside on the root of the CD.
  This property is set to "\srvadmin\windows\SystemsManagement" for
  the Server Administrator MSI package. You must ensure that the CD
  layout remains the same when burning your own CD. The
  "SysMgmt.msi" file must reside under the folder
  "\srvadmin\windows\SystemsManagement" on the CD.

  For detailed information, go to the Microsoft website:

  "http://msdn.microsoft.com/library/default.asp?url=/library/en-us/
  msi/setup/mediapackagepath.asp"

* MSI reference counting takes effect if you install the Intel(R)
  SNMP agent using the MSI provided by Intel, and then install the
  Intel SNMP agent again using Dell OpenManage Install. The Intel
  SNMP agent is not removed during installation of either MSI;
  you must remove both installers from the system to remove the
  agent.

* When launching the MSI installation packages from your Windows
  Explorer, all MSI output will be logged into the file,
  "SysMgmt.log." It is stored at "%TEMP%."

* During installation/removal, the Windows Installer Service
  may display the time remaining for the current task to complete.
  This is only an approximation by the Windows Installer Engine based
  on varying factors.

* A new console window must be opened and CLI commands executed from

that window after an "Unattended Installation" has completed. It is
not possible to execute CLI commands from the same console window on
which Server Administrator was installed.

* If Server Administrator is being installed or uninstalled on a
  system where the Web download version of Dell PowerEdge
  Diagnostics (version 2.2) is running, the Windows Installer
  Service may display a message stating that specific files needed
  by Server Administrator are in use by Diagnostics. Select the
  "Ignore" option in the message box to continue.

* When installing Server Administrator on Windows 2000, you must
  select a disk drive that has disk space greater than the required
  space. This will ensure availability of additional disk space for
  the temporary installation (not reflected in the "space required"
  field) required by Windows Installer Service.

* When installing Server Administrator on Windows 2000 systems,
  additional "Custom Install" components selected during an "Express
  Install" are retained upon returning to the "Express Install"
  option. To remove these components, you must deselect them from
  the "Custom Install" dialog.

* Before installing Server Administrator on Windows 2000 systems,
  verify that the "Unsigned non-driver installation behavior"
  policy is set to "Silently succeed." Otherwise, the Dell OpenManage
  Installer cannot install the Server Administrator applications
  properly.

  This policy can be found in "Start" -> "Programs" ->
  "Administrative Tools" -> "Local Security Policy." Expand "Security
  Settings" -> "Local Policies" -> "Security Options." After changing
  the policy, execute "secedit /refreshpolicy MACHINE_POLICY" from the
  command shell to immediately invoke the security policy change.
  After installation of Server Administrator is complete, this policy
  can be set to its original value.

* During installation of Server Administrator on Windows 2000,
  if an "Out of Memory" error message displays, you must exit
  the installation and free up memory. Close other applications
  or perform any other task that will free up memory, before
  re-attempting Server Administrator installation.

* Server Administrator may conflict with the Intel IMB driver.
  If you receive an informational message recommending that you
  uninstall the Intel IMB driver before installing Server
  Administrator, you can do so through the "Device Manager."
  Perform the following steps:

  1. Open the "Device Manager"
  2. Expand the "System devices" list
  3. Right-click the device with a name of the form "IMB Driver *"
     and select "Uninstall"
  4. Select "OK" to uninstall

If you choose to install Server Administrator while the Intel
IMB driver is being installed, you may have problems running
Server Administrator. Server Administrator services may fail
to start, or Server Administrator may have problems accessing
sensor data.

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USER NOTES FOR SUPPORTED RED HAT ENTERPRISE LINUX OPERATING SYSTEMS
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* If your system comes with a factory installed Red Hat Enterprise
  Linux (version 3) operating system for Intel EM64T, then prior to
  installing Server Administrator, you will need to install a set of
  Server Administrator-dependent RPM files. For convenience, these
  32-bit versions of the RPM files are provided on the CD or package.
  Navigate to the subfolder "/srvadmin/linux/RPMS/RH3_x86_64" and run
  "rpm -Uvh *" to install these RPM files before installing Server
  Administrator. If the 64-bit version of the dependent RPMs are
  already installed, a warning message may result. Install the 32-bit
  versions using "rpm -Uvh * -- force" to bypass the warning.

* To avoid warnings concerning the RPM package key during
  installation, mount the CD or package, and import the key using the
  command:

  "rpm --import /mnt/cdrom/srvadmin/linux/RPM-GPG-KEY"

* If you have performed a default manual install of your Linux
  operating system without Dell OpenManage Server Assistant, you will
  need a set of Server Administrator dependent RPM files installed
  prior to installing Server Administrator. These RPM files can be
  found on the Red Hat operating system media. You can locate them
  under the "/srvadmin/linux/RPMS" folder on the CD or software
  package. Under this folder, there are subfolders "RH3_i386,"
  "RH3_x86_64," "RH4_i386," and "RH4_x86_64." Navigate to the
  subfolder that matches your Linux operating system and run
  "rpm –Uvh *" to install these RPM files prior to installing
  Server Administrator.

* If you have performed a non-default install of your Linux
  operating system using your Linux operating system media, you may
  see missing RPM file dependencies when installing Server
  Administrator. Dell OpenManage Server Administrator is a 32-bit
  application. When installed on a 64-bit version of Red Hat
  Enterprise Linux, the Dell OpenManage Server Administrator
  application remains 32-bit, while the device drivers installed
  by Dell OpenManage Server Administrator are 64-bit. If you are
  attempting to install Server Administrator on a system supporting
  Red Hat Enterprise Linux x86 and Intel EM64T, be sure to install the
  applicable 32-bit versions of the missing RPM file dependencies.
  The 32-bit RPM versions always have "i386" in the file name
  extension. You may also experience failed shared object file (files
  with "so" in the file name extension) dependencies. In this case,

you can determine which RPM is needed to install the shared object
by using the RPM "--whatprovides" switch. For example,
"rpm -q --whatprovides libpam.so.0".

An RPM name such as "pam-0.75-64" could be returned, so obtain and
install the "pam-0.75-64.i386.rpm". When Dell OpenManage Server
Administrator is installed on a 64-bit version of Linux, ensure that
the "compat-libstdc++-<version>.i386.rpm" RPM package is installed.
You will need to resolve the dependencies manually by installing the
missing RPM files from your Linux operating system media.

* Source packages for RPMs are available on the "Installation
  and Server Management" CD under the "/srvadmin/linux/SRPMS"
  directory. The CD image is available from the Dell Support
  website at "support.dell.com."

* The Intelligent Platform Management Interface (IPMI) device
  driver of Server Administrator may conflict with the
  OpenIPMI device driver. If you start Server Administrator services
  (by either entering the "srvadmin-services.sh start" command, or
  rebooting), while the OpenIPMI driver is running, Server
  Administrator may fail to start, or Server Administrator may
  have problems accessing sensor data. It is recommended that you
  unload the OpenIPMI driver before starting Server Administrator
  services.

* The IPMI device driver of Server Administrator may conflict with
  the Intel IMB device driver. If you start Server Administrator
  services (by either entering the "srvadmin-services.sh start"
  command, or restarting your system), while the IMB device driver
  is running, Server Administrator may fail to start, or Server
  Administrator may have problems accessing sensor data. Dell
  recommends that you unload the IMB driver before starting
  Server Administrator services.

##
KNOWN ISSUES
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ISSUES FOR ALL SUPPORTED OPERATING SYSTEMS
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* If you already have Adaptec Fast Console installed on your
  system, you must uninstall this application before installing
  the Server Administrator Storage Management Service.

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ISSUES FOR SUPPORTED WINDOWS OPERATING SYSTEMS
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* Dell OpenManage Install does not support Windows "Advertised"
  installation - the process of automatically distributing a program

to client computers for installation via Windows group policies.
(144364)

* If you upgrade from version "X" to version "Y" via MSP (Service
  Pack) and then try to use the version "Y" CD (full install), the
  Prerequisite Checker on the version "Y" CD will inform you that the
  current version is already installed. If you proceed, the
  installation will not run in "Maintenance" mode and you will
  not get the option to "Modify," "Repair," or "Uninstall."
  Proceeding with the installation will remove the MSP and create
  a cache of the MSI file present in the version "Y" package. When
  you run it a second time, the installer will run in "Maintenance"
  mode.
  (154376)

* If you choose to remove Dell OpenManage systems management software
  using the CD or Web package, it could take a few minutes before
  the system responds after you select "Remove" to continue. This may
  give you an impression that the system has stopped responding. Dell
  recommends that you remove Dell OpenManage systems management
  software using "Add or Remove Programs."
  (144970)

* When launching the Dell OpenManage Installer, an error message may
  display, stating a failure to load a specific library, a
  denial of access, or an initialization error. An example of
  installation failure during Dell OpenManage install is "failed to
  load OMIL32.DLL." This is most likely due to insufficient
  COM permissions on the system. See the following article to remedy
  this situation:

  "http://support.installshield.com/kb/view.asp?articleid=Q104986"

  The Dell OpenManage Install may also fail if a previous installation
  of Dell OpenManage systems management software or other software
  product was unsuccessful. A temporary Windows Installer registry
  can be deleted, which may remedy the Dell OpenManage Install
  failure. Delete the following key, if present:

  "HKLM\Software\Microsoft\Windows\CurrentVersion\Installer
  \InProgress"
  (144114, 124944)

* If both Server Administrator and Management Station are to be
  installed on a system, and the Remote Access Controller (RAC)
  feature is required, install the Server Administrator Remote
  Access Service. The Server Administrator Remote Access Service
  includes the functionality supplied by the Management Station
  Remote Access Console.
  (139224)

* In the "Custom Setup" screen, you must click on an active feature
  to view your disk space availability, or to change the installation
  directory. For example, if Feature A is selected for installation

(active) and Feature B is not active, the "Change" and "Space"
buttons will be disabled if you click Feature B. You must click on
Feature A to view your space availability, or to change the
installation directory.
(139020)

* When adding a feature, if you do not have sufficient disk space on
  the drive where Server Administrator or Management Station is
  installed, you will get an out-of-disk-space message suggesting
  that you select a different destination drive. This message is
  incorrect. To correct the problem, you must free up space on the
  drive where Server Administrator or Management Station is
  installed.
  (139143)

* Dell OpenManage systems management software versions 1.x through
  4.2 must be removed to successfully install Dell OpenManage
  systems management software version 4.3 or later. Use
  "srvadmin\support\OMClean\OMClean.exe" found on your "Installation
  and Server Management" CD to remove the old version of Dell
  OpenManage systems management software.
  (138227)

* If you see the following error when trying to launch Dell OpenManage
  Install, it is recommended that you run the "OMClean.exe" program,
  under the "srvadmin\support\OMClean" directory, to remove an old
  version of Server Administrator on your system.

  "An older version of Server Administrator software is detected on
   this system. You must uninstall all previous versions of Server
   Administrator applications before installing this version."
  (149522)

* When launching the "Quick Installation Guide" or "User's Guide"
  from the Prerequisite Checker, a Windows message will appear
  indicating that the page is blocked due to enhanced security
  configuration. You must add this site to the "Trusted Sites"
  list for the pages to be displayed, or lower your security
  settings.
  (134991)

* Uninstall any previous versions of Server Administrator before
  installing Citrix Metaframe (all versions). As errors may exist
  in the registry after the Citrix Metaframe installation, you
  will need to reinstall Server Administrator.
  (67690)

* If you have low disk space in your Windows system drive, you
  may encounter misleading warning or error messages when you
  run Dell OpenManage Install. In addition to having sufficient
  space on the drive you intend to install Server Administrator,
  ensure you have sufficient disk space (10 MB or more) on your
  system drive prior to running Dell OpenManage Install.
  (145218)

* On Windows 2000 with MSI engine "2.0.2600.1183," installing
  Server Administrator using deployment tools that employ user
  impersonation will install the Server Administrator device
  drivers. Upgrade the Windows installer engine to version
  3.0 (available via Microsoft website) and install using
  deployment tools.
  (134411)

* On Windows 2000 operating systems, a roll-back to the original
  install configuration occurs if you cancel the removal of
  Server Administrator. The roll-back may not succeed for systems
  with Windows Installer Service 2.x failing to re-register
  dependent services. To resolve the issue, uninstall the failing
  component and reinstall it. This issue has been fixed for
  Windows Installer Service 3.x and higher.
  (138608)

* When you run Dell OpenManage Install in English, German, French,
  or Spanish and get unreadable characters on the "Prerequisite
  Check Information" screen, ensure that your browser encoding has
  the default character set. Resetting your browser encoding to
  use the default character set will resolve the problem.
  (145698)

===
ISSUES FOR SUPPORTED RED HAT ENTERPRISE LINUX OPERATING SYSTEMS
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* Attempts to upgrade a Linux Server Administrator 4.3.0 installation
  may fail to update the Dell Remote Access Controller (DRAC) package
  "srvadmin-racsvc-4.3.0-785" when attempted from the RPM command-line.
  To overcome this issue, stop the service(s) first, then retry the
  upgrade:

  "srvadmin-services.sh stop"

  "rpm -Uhv srvadmin-racsvc-*.rpm"
  (144524)

* If the default install location of Server Administrator is changed
  during installation, some of the Server Administrator directories
  will not be deleted during its removal. This issue is related
  to the default behavior of the RPM engine. For example, if
  installed with the prefix "--prefix/opt/dell2/srvadmin2/abc/",
  RPM will only delete the last directory ("abc") and the remaining
  directories ("/opt/dell2/srvadmin2") are left undeleted.

* When using the command "rpm -e 'rpm -qa | grep srvadmin'" to
  remove Dell OpenManage systems management software, some RPM
  utility versions appear not to perform a full dependency
  check before removal. This can result in some installed RPMs not
  being removed in the proper order. A message such as the following
  might display:

"WARNING: srvadmin-rac3-components configuration not performed;
        '/etc/omreg.cfg' is missing or damaged."

 The solution is to use the Dell OpenManage uninstall script,
 "srvadmin-uninstall.sh," that is provided.
 (153056)

* Dell OpenManage Server Assistant adds a script to the root user's
  ".bash_profile" file that prompts for the installation of Dell
  OpenManage systems management software. This script might interfere
  with remote client applications that authenticate using the root
  user account on the server, but do not have the means to handle user
  prompts. To remedy this limitation, edit the ".bash_profile" file
  and comment out the line: "[${SHLVL}...."
  (152668)

###
HISTORY:
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Version 4.5 A00
Release Date: October 2005

###
Release Highlights - Features
###

* Added installation support for the following operating system:

   - VMware(R) ESX 2.5.1

* Added installation support for the following systems:

  - PowerEdge 830
  - PowerEdge 850

* From Dell OpenManage systems management software version 4.3
  onwards, added support for Windows upgrade using the Windows
  Installer Patch (MSP) file. MSP files are much smaller in size
  and are available on the Dell Support website at
  "support.dell.com."

###
Release Highlights - Fixes
###

N/A

Version 4.4.1 A00
Release Date: July 2005

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##############################################################################
Release Highlights - Features
##############################################################################

* Added installation support for the following new platforms:

  - PowerEdge 830
  - PowerEdge 850

Note: This release supports only these two new platforms.

##############################################################################
Release Highlights - Fixes
##############################################################################

N/A


------------------------------------------------------------------------
Version 4.4 A00
Release Date: May 2005


=========================================================================
Release Highlights - Features
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* Added installation support for the following operating systems:
  - Windows Server 2003 x64 (Standard and Enterprise editions)
  - Windows Server 2003 SP1
    NOTE: Dell OpenManage version 4.3 does not install on SP1
  - Red Hat Enterprise Linux (version 3) for Intel Extended
    Memory 64 Technology (EM64T)
  - Red Hat Enterprise Linux (version 4) for Intel x86
  - Red Hat Enterprise Linux (version 4) for Intel EM64T

* Added service pack file (MSP) support for Windows upgrade from
  version 4.3.  MSP files are much smaller in size and are available
  from the Dell Support website at "support.dell.com."


=========================================================================
Release Highlights - Fixes
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N/A

------------------------------------------------------------------------
Version 4.3 A00
Release Date: February 2005


=========================================================================
Release Highlights - Features
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* Added installation support for Dell OpenManage Server Administrator
  Storage Management Service under Microsoft Windows and Red
  Hat Enterprise Linux.

* Leveraged native install technologies for each operating system
  for Server Administrator installs.

* Added Server Update Utility (SUU) 1.0 to the "Dell PowerEdge
  Updates" CD. SUU is a CD-based application for identifying and
  applying updates on your PowerEdge server(s).

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Release Highlights - Fixes
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N/A

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Server Administrator uses the OverLIB JavaScript library. This
library can be obtained from "www.bosrup.com."

January 2006