##

DELL(TM) SYSTEMS BUILD AND UPDATE UTILITY 1.4 README

##

Description:

This Readme provides information about Dell Systems Build and Update
Utility.
NOTE: Dell OpenManage Systems Management software, including Systems
Build and Update Utility, is now available only on the "Dell Systems
Management Tools and Documentation" DVD.

You can use Dell Systems Build and Update Utility to perform the
following operations on your system:

* install operating system

* view hardware details

* perform firmware update

* generate hardware configuration scripts

* create a bootable image for system(s) of choice

For the latest version of this Readme, see the Dell Support website at
"support.dell.com."

##
TABLE OF CONTENTS
##

This file contains the following sections:

##
CRITICALITY
##

3 = Optional

Dell recommends that you review specifics about the update to determine
if it applies to your system. The update contains changes that impact
only certain configurations, or provides new features that may or may
not apply to your environment.

##
MINIMUM REQUIREMENTS
##

This section provides information about the supported systems, operating
systems, and system requirements for Systems Build and Update Utility.

==
SUPPORTED SYSTEMS
==
* The following Dell systems are supported on the "Dell Systems Build and
Update Utility" version 1.3:

PowerEdge 1800, PowerEdge 1850, PowerEdge 1855, PowerEdge 1900,
PowerEdge 1950, PowerEdge 1955, PowerEdge 2800, PowerEdge 2850,
PowerEdge 2900, PowerEdge 2950, PowerEdge 2970, PowerEdge 6800,
PowerEdge 6850, PowerEdge 6950, PowerEdge 800, PowerEdge 830,
PowerEdge 840, PowerEdge 850, PowerEdge 860, PowerEdge M600,
PowerEdge M605, PowerEdge M610, PowerEdge M710, PowerEdge M805,
PowerEdge M905, PowerEdge R200, PowerEdge R210, PowerEdge R300,
PowerEdge R410, PowerEdge R510, PowerEdge R610, PowerEdge R710,
PowerEdge R805, PowerEdge R810 , PowerEdge R900, PowerEdge R905,
PowerEdge T110, PowerEdge T300, PowerEdge T310, PowerEdge T410,
PowerEdge T605, PowerEdge T610, PowerEdge T710, PowerVault 110,
PowerEdge R815, PowerEdge R715, PowerEdge M910, PowerEdge R310,
PowerEdge M610x, PowerEdge M710HD, PowerEdge R910,
PowerVault 500, PowerVault 600, PowerVault DL 2000, PowerVault NF110/DP110,
PowerVault NX 1950.

==
SUPPORTED OPERATING SYSTEMS
==

The following operating systems are supported:

* Microsoft Windows Server 2003 R2 with SP2
* Microsoft Windows Server 2003 R2, x64 edition with SP2
* Microsoft Windows Small Business Server 2003 R2 with SP2
* Microsoft Windows Server 2008 with SP2
* Microsoft Windows Server 2008, x64 edition with SP2
* Microsoft Windows Server 2008 R2
* Microsoft Windows Small Business Server 2008 with SP2
* Microsoft Windows Essential Business Server 2008
* Red Hat Enterprise Linux version 4 Update 8 for x86
* Red Hat Enterprise Linux version 4 Update 8 for x86_64
* Red Hat Enterprise Linux version 5 Update 5 for x86
* Red Hat Enterprise Linux version 5 Update 5 for x86_64

* Novell(R) SUSE Linux Enterprise Server (SLES) version 10 (SP3) x86_64
* Novell(R) SUSE LINUX Enterprise Server (SLES) 11 SP1 x86-64
* VMware ESX version - 4.1, 4.0 U1
* VMware ESXi Installer and Recovery, version - 4.1, 4.0 U1
* Microsoft Windows Server 2008 R2 Hyper-V x86_64 Edition

==
SYSTEM REQUIREMENTS
==

You should have a Dell system with:
* Minimum memory of 512 MB

* DVD drive

NOTE: Hard drive requirements vary by operating system

##
RELEASE HIGHLIGHTS
##

* Added support for Red Hat Enterprise Linux version 5 Update 5 for x86
* Added support for Red Hat Enterprise Linux version 5 Update 5 for x86_64
* Added support for Novell(R) SUSE Linux Enterprise Server (SLES)
  version 11 SP1 for x86_64
* Added support for VMware ESX 4.1

##
INSTALLATION
##

1. Insert the "Dell Systems Management Tools and Documentation" DVD
   into your system drive and reboot your system. If the system is
   supported by the DVD, the "Boot Menu" screen displays. The
   "Boot Menu" screen contains the following options to boot your
   system:

    * "Dell Systems Build and Update Utility"
    * "Optical Media (CD/DVD) Check"
    * "Skip Optical Media (CD/DVD) Boot - Boot to Hard Drive"

2. When you select the "Dell Systems Build and Update Utility"
   option, the "Home" page for "Dell Systems Build and Update
   Utility" displays. From the "Home" page, you can access the
   Systems Build and Update Utility modules:

    * Server Operating System Installation
    * Firmware Update
    * Hardware Configuration
    * View Hardware

   "Dell Systems Build and Update Utility" can also be used to
   create a bootable image, or export configurations for, any
   of the supported systems. Click "System(s) Selection" to

change the system(s) of choice. The current systems is
selected by default.

3. Each of the above modules can be configured independently,
   and all the configurations can then be applied in one go.
   Alternatively,the Server OS Installation can be done by itself
   in one flow.
   To configure any of the above modules, click "Configure"
   against the module name. Follow the instructions to complete
   the configuration. Context-sensitive help is provided on each
   page.

4. To apply all configurations, click "Apply/Export Configuration".
   Follow the instructions to apply the configurations, and
   select "Continue".

5. Insert the operating system CD/DVD media if installing from
   CD/DVD, when asked by the system.

6. The system reboots and the unattended operating system
   installation continues.

7. When the installation is complete, your system is ready for use.

##
USER NOTES
##

This section provides information to help enhance your experience
with Systems Build and Update Utility.

==
GENERAL NOTES
==

* The following languages are supported by Systems Build and Update
Utility:

  * English
  * French
  * German
  * Spanish
  * Simplified Chinese
  * Japanese

* See the "readme.txt" under the folder
  "/server_assistant/driver_tool" for all details on the driver
  extracting utility.

* For operating systems such as ESX and Windows 2008 Server, for
  which the installation is not fully-automated, the native Graphical
  User Installation tool provided by the operating system installation
  media is used. Hence setting date and time zone in the Systems Build
  and Update Utility setup screen does not get applied. The date and time

will have to be set manually once the operating system is installed.

* If the Systems Build and Update Utility GUI disappear and a blank
  screen is displayed, restart your system. This issue occurs if you
  right-click to open a new browser window (from the "Quick Reference
  Guide" window) and select "Quit" from the "File" menu.

* In order to use the RAID configuration feature of Systems Build and
  Update Utility to configure RAID and install the operating system,
  the "Fast Initialization" parameter of the RAID controller must be
  set to "ON." This setting is the factory default of all RAID
  controllers.

* Do not insert or remove any hot-swappable drives until the
  operating system is completely installed while using the "Systems
  Build and Update Utility". The results may be unpredictable and the
  installation may fail.

* Replication is supported on systems with multiple controllers,
  provided the controllers are in an initialized state. This is
  applicable to both master and target systems.

* If you configure RAID manually and use Systems Build and Update
  Utility to install an operating system on a master system, then you
  need to manually configure RAID on the target system as well.

* Use local accounts for creating the SMB share on Windows on which
  the RPMs will reside for the network download feature.

* Systems Build and Update Utility does not support the installation
  of tape or Fibre Channel drivers with the operating system
  installation. You can download the drivers for these devices from the
  Dell Systems Service and Diagnostics Tools on the "Dell Systems
  Management Tools and Documentation" DVD or from the Dell Support
  website at "support.dell.com".

* The "Keyboard Type" locale option offered for a keyboard layout on
  the systems Build and Update Utility home page is for the Systems
  Build and Update Utility screens navigation only. The selected
  keyboard layout setting is not passed to the installed Operating
  System.

  Even after you select any language other than English under "Select
  Language" and "Keyboard Type" on the "Home" page, the input   language
  will be English. That is, the text you enter in the text fields in
  the GUI will appear in English.

* Do not use the Dell Remote Access Controller (DRAC) virtual media
  to run "Firmware Update" on the system. This procedure breaks the
  virtual media connection, causing the firmware update procedure to
  fail.

* USB keys formatted with NT File System (NTFS) or file allocation
  table (FAT16) are not supported.

* Any network or Windows share or CD/DVD that you use an input to the
  Repository must not contain any extra file or folder that is not part
  of the Server Update Utility (SUU) content.

* When you select the "No Change" option for Trusted Platform Module
  (TPM) Activation, under Boot sequence and security tab, the TPM
  activation token will not be saved to the ".ini" file.

* "Digitally sign communications" enabled Windows share on a system
  running on Windows cannot be accessed. To access the share, disable
  this feature on the Windows system.

* When you insert multiple USB keys into your system, Systems Build
  and Update Utility uses the last inserted USB key which has a
  repository that is applicable to the platform to which your system
  belongs and is compatible with the Systems Build and Update Utility
  repository.

* The selections on Set the Date and Time page in SOI will show
  default values (not the earlier selected values) when the user
  re-visits the page by clicking Back or Edit. The user selected
  values will be stored internally and will be applied to the
  system when user opts to apply.

* The Advanced Mode allows you to specify the size of the virtual disk.
  The specified value will be used while creating RAID and will not be
  validated against the existing disks on the system.
* OS Installation: Windows Server 2008 (32 and 64 bit), VMware ESX apply
  options screen will not have OS ISO location specified as these
  installation require OS ISO at runtime when OS is getting   installed.
  SBUU will boot to hard disk and then ask for OS ISO DVD and then user
  has to supply it. These installations do not work on network. They
  are for standalone servers.

* When the User selects the Embedded NIC and/or Redundant Memory
  token in the BIOS page in the Hardware Config screen, the options
  shown for this token are a superset. If the user selects an option
  which is not supported in the current system, applying Hardware
  Scripts will fail and if Exit on Failure option is selected, the
  deploy operation will halt.

* When the User selects to use Operating System ISO's from network
  location and during copy operation, if the network is disconnected
  for a while and then reconnected, in case of NFS shares, it will
  resume the copy operation but, in case of SMB/Windows share, it will
  not resume the copy operation. Disconnection on a SMB/Windows share
  will result in an error and user has to reboot and re-run the
  operation.

* The values configured in the multi-sys-config.csv file will be
  applied only during execution. Only those options are applied that
  are shown during configuration time. However, options that are not
  shown during configuration, but are part of multi-sys-config.csv file

will be ignored. Note: If there is any overlap in the settings
between Configuration GUI   and multi-sys-config.csv file, then
settings in multi-sys-config.csv   file will override those made in
the GUI.

* The installation times for different versions of the Windows Server
  2008 operating system will vary considerably. This is because of the
  differences in the software and drivers utilized in different
  versions of the Windows Server 2008 operating systems and the
  capabilities of the installation platform. On the "Installing
  Windows" screen, the "Completing installation" step, where the
  drivers are installed, may take considerable time to complete.

* If you configure the BIOS or iDRAC6 entry with "Setup Password
  Override" checkbox under "Power" Section and then you Export the
  configurations and then import the same configuration and view/Edit
  the imported configuration.
  User will see the 'Setup Password Override' checkbox is not checked.

* Uncertified array disks, if present in the system, are displayed in the
  SBUU RAID configuration GUI but are not used when creating RAID using
  configuration scripts.

==
USER NOTES FOR WINDOWS OPERATING SYSTEMS
==
* If you are using the SBUU iso image downloaded from the support site at
  support.dell.com and installing Microsoft Windows 2008, you need to
  download Windows OS Install Support Pack from the support site. Create
  your own optical media from the Windows OS Install Support pack and
  make it available to SBUU when prompted.

* During Windows installation, the system will automatically log on
  to finish the post-installation tasks and will then automatically log
  out. It is recommended that you do not perform any task until the
  system has automatically logged out. Installation might end
  abnormally if the installation process is interrupted.

* If you enable "Console Redirection":

    * A dialog box displays that an Expanded Memory Support (EMS)
    connection has been discovered during the operating system
    installation.
    * You enter the organization name and computer name, an error
    message displays that "unattend.txt" is incomplete and
    prompts you to enter the username. Enter the username to
    continue with the unattended setup operation.

* In the Advanced "Enter OS Information" screen, enter all IP
  addresses for the "Trap Destination" field separated by commas. Do
  not enter trailing commas, or the installation will stop when the
  Windows Setup program runs.

* If you install Windows Server 2003 Web Edition using Dell Systems
  Build and Update Utility Internet Information Server (IIS) is
  installed by default. You should choose NT File System (NTFS) to
  ensure all of IIS components install correctly.

* If your platform supports Windows HPC 2008 or Windows HPC 2008 R2
  editions, select Windows 2008 (64 bit) and Windows 2008 R2 (64 bit)
  respectively on the "Configure Server OS Installation" page, and
  use the appropriate Windows media when prompted.

  To find if your platform supports these Windows editions, see
  Dell Support website at support.dell.com

===
USER NOTES FOR TOOL TO MAKE BOOTABLE USB (make_bootable_usb.py)
===
* The following commands/rpm should be installed for the tool to work:
  udevinfo,mtools,parted (minimum version required is 1.6.25.1),
  grub-install (grub) and lsusb

===
USER NOTES FOR RED HAT ENTERPRISE LINUX OPERATING SYSTEMS
===

* At least 14.1 GB disk space is required to install Red Hat Enterprise
  Linux.

* If you use the "Download RPMs from Network" feature, the RPMs are
  downloaded to the partition called "/home." The recommended size for
  this partition is 3 GB plus the size of the RPMs you want to update.
  All downloaded RPMs are installed during the post install phase of
  the Red Hat Enterprise Linux installer.

* Entering a double quote character (") in the "Root Password" field
  of the Red Hat Enterprise Linux installation will result in denial
  of access to the root "log in."

* Systems Build and Update Utility limits the maximum block device
  size on a Linux system to 8 TB.

* A network download of RPMs requires that the target system have a
  DHCP IP address and that the system is connected to a network.

* While configuring the hard drive on a system to install a Red Hat
  Enterprise Linux operating system, if the hard drive space on your
  system is used completely and the range specified in the GUI against
  the "swap" partition is the same (for example [1024 -1024] MB), the
  scroll bar remains to the left side.

===
USER NOTES ON PREPARING LINUX OS INSTALLATION MEDIA
===

Systems Build and Update Utility performs a media check on the Linux
operating system media that is provided during installation. This is
so that you do not copy damaged media that will cause your operating
system installation to fail. This is a default action performed by
SBUU, and you cannot disable it.

It has been observed that certain CD burning software fail to prepare
media to pass the media check.

Dell recommends that you use the optical media obtained from the
operating system vendor to install Red Hat Enterprise Linux or SUSE
Linux operating systems using Systems Build and Update Utility.

If it is necessary to burn the media using CD burning software,
ensure that you:

* Obtain the ISO image file of the media from known sources.

* Try burning the media at slower speeds

* Use the "Disk at Once" or a similar option.

* Close the session.
==
USER NOTES FOR VMware ESX
==

For details on the hardware support and ESX build number, see
"www.dell.com/vmware" on the Dell Support website at
"support.dell.com." Also, see the "Dell OpenManage Server
Administrator Compatibility Guide" and the "Dell Systems Software
Support Matrix."

==
USER NOTES ON Dell Utility Parition installation
==
Utility Partition will not be created if the system on which you are trying to
install does not support a Utility Partition.

##
KNOWN ISSUES
##

The following subsections list the known issues with this release of
Systems Build and Update Utility.

* On Dell PowerEdge systems with internal USB, BIOS setting
  configuration for internal USB Port is possible only if User
  Accessible/external (UA) USB ports are set to "All Ports On".
  If UA USB ports are not set to "All Ports On" and user tries to
  configure BIOS setting for internal USB Port using Server
  Administrator GUI or CLI, the configuration will appear to be
  successful but the changes will not take effect on next reboot.
  If UA USB ports settings are changed from "All Ports On" to "All

Ports Off" or "Only Back Ports On", the USB will be automatically
set to "Off" during the next reboot.

* System Build and Update Utility (SBUU) will not boot through DVD under
  BIOS in UEFI mode.

===
KNOWN ISSUES ACROSS ALL OPERATING SYSTEMS
===

* Systems Build and Update Utility does not support RAID
  configuration on any system with a SAS 5/iR or SAS 6/iR controller
  connected to one hard drive. To install Systems Build and Update
  Utility on a system with the SAS 5/iR or SAS 6/iR controller, ensure
  at least two hard drives are connected.

* Systems Build and Update Utility does not support RAID
  Configuration on any system with a SATA 2S controller connected to
  one hard drive. To install Systems Build and Update Utility on a
  system with the SATA 2S controller, set the hard drive   configuration
  to "Native Mode" in the BIOS setup or configure RAID using the
  "Ctrl+A" option.

* If a USB flash device is connected to the system, Systems Build and
  Update Utility may fail to install the operating system. To resolve
  the issue, perform one of the following actions:

  - Remove the USB flash device.

  - In the BIOS setup, under "Boot Order," move the "USB Device"
  selection to the end of the list.

* The "View Hardware" feature in Systems Build and Update Utility
  does not provide information on devices that are connected to the
  chassis. The current listing of devices is not complete and does not
  include devices such as Fibre Channel cards and Dell Remote Access
  Controller 5 (DRAC 5).

* On PE1800 the "view hardware" feature in Systems Build And Updates
  Utility does not show the CERC SATA 2S device when it is set to ATA
  mode. This is due to the current limitation of CERC SATA 2S; it has
  the same PCI device ID for both ATA and RAID mode.

* Use of localized special characters might cause the Systems Build
  and Update Utility GUI to freeze intermittently.

* If there are multiple SAS or RAID controllers on the system,
  Systems Build and Update Utility will always use the controller
  listed first in the BIOS boot order list. If you want to use a
  particular controller for the operating system, you must go to the
  BIOS setup (F2 on boot) and set up the given controller as the first
  boot device.

* Systems Build and Update Utility does not support the configuration

of partitions or the installation of operating systems on systems
with PERC 2 and PERC 3 series controllers or any type of
Fibre Channel storage adapter.

* It is not recommended to start the System Build and Update Utility
  if any of the virtual disks are in a non-optimal state. Use the RAID
  controller's firmware utility (Ctrl+A or Ctrl+M or Ctrl+R or
  Ctrl+C during boot) to reset the RAID controller's state. If an
  array disk is removed, the firmware utility may indicate the
  configuration has changed. Accepting these changes on the command
  line may not be enough; enter the firmware utility and reset the
  controller.

* On CERC ATA or CERC SATA RAID controller cards, disks that appear
  in "Legacy" mode will not be available for RAID configuration in
  Systems Build And Updates Utility. If you wish to use any disk that
  is in "Legacy" mode as part of a RAID container, you need to use
  the RAID controller firmware utility to initialize these disks. Likewise,
  if all disks are in "Legacy" mode, then Systems Build And Updates Utility
  may fail to configure RAID on the controller.

* The Server Setup program might fail if it runs when scrubbing is
  active on a RAID virtual disk.

* Systems Build and Update Utility does not identify the boot device
  when PERC 4DC controller is in cluster mode and the adapter's BIOS is
  disabled. This will put Systems Build and Update Utility in an
  infinite "Write Disk signature" and reboot loop. Use Systems Build
  and Update Utility to install the operating system on PERC in a
  non-cluster mode.

* Systems Build and Update Utility cannot detect the correct slot
  number of PCI slots containing Adaptec RAID controllers. The message
  "Unknown Slot Number" is displayed.

* On systems with low memory (less than 256 MB) and more than one
  RAID controller, Systems Build and Update Utility may fail during
  RAID configuration. Install the additional adapters after the
  operating system has been installed on the first adapter.

* When using the Custom install script feature, commands which do
  not return cause the system to stop responding during booting of Red
  Hat Enterprise Linux or while registering components on Windows
  installations.

* On DELL PERC/SAS RAID controller cards, disks that appear in "Foreign"
  state will not be available for OS installation in non-RAID mode. If
  all disks are in "Foreign" state, Systems Build and Update Utility
  may fail to install OS on the controller in non-RAID mode.

* When you use Systems Build and Update Utility with a
  keyboard-video-monitor (KVM) switch, the GUI may not display due to
  incompatibility with the Server Interface PODs (SIPs) used. To view
  the GUI, connect your monitor directly to your system or change the

SIP.

* To ensure the successful installation of an Operating System using
  Server OS Installation, disable the DRAC/iDRAC Virtual Flash.

* When you are using the Server Operating System Installation module
  in Systems Build and Update Utility to install an operating system,
  the installation may fail if an external storage device is connected
  to your system. Ensure that you disconnect the external storage
  device before you begin installing the operating system.

* The Edit option shown on the SBUU homepage after Hardware
  Configuration section is configured, will allow the user only to view
  all the created Virtual Disks and user is allowed to add or remove
  Virtual Disks. User will not be allowed to edit the settings of
  already configured Virtual Disk.

* When an external storage enclosure is connected to the storage
  controller, RAID can be configured on that controller using SBUU.
  But, SBUU will not support installing an Operating System on the
  Virtual Disk which is created on the controller connecting to an
  external storage enclosure.

* iDRAC users created through SBUU do not get enabled. To enable
  these users, user will have to go to DRAC (DRAC5 or iDRAC) GUI and
  set the user privilege level to desired level (Administrator,
  Operator etc).

* When you insert multiple USB keys into your system, Systems Build and
  Update Utility uses the last inserted USB key which has a repository
  that is applicable to the platform to which your system belongs and
  is compatible with the Systems Build and Update Utility repository.

* Systems Build and Updates Utility will not allow you to delete any single
  virtual disk if the last virtual disk has utilized full space in the selected
 disk group. It will automatically select and delete all the virtual disks in
 the selected disk group.

* BMC DUPs cannot be updated from SBUU, SBUU deployment will fail if you select
  this DUP in the firmware update screen. Users should update the firmware
  after installing the OS.

===
KNOWN ISSUES FOR LINUX OPERATING SYSTEMS
===

When you are using the "Dell Systems Management Tools and
Documentation" DVD through DRAC/iDRAC, Systems Build and Update Utility may
not eject the DVD before asking you to insert the operating system
media. This displays the error message, "Invalid media inserted."

To correct this, unmount the DVD from DRAC/iDRAC; then insert the correct
operating system media and mount the drive again.

===
KNOWN ISSUES FOR RED HAT ENTERPRISE LINUX OPERATING SYSTEMS
===

* When using the "Dell PowerEdge Installation and Server Management"
  CD/DVD media for new RAID configurations, installation
  of the Red Hat Enterprise Linux operating system may fail if both the
  USB CD and USB floppy are connected. To avoid the installation
  failure, remove the USB floppy connection before rebooting the system
  with the CD/DVD for the installation process.

* Installation of Red Hat Enterprise Linux (version 4) operating
  system is not supported on any system having the following
  controllers:

  * CERC ATA 4ch

  NOTE: In the above case, the option to install Red Hat Enterprise
  Linux (version 4) will not be presented in the "Select Operating
  Systems" page.

* Installation of Red Hat Enterprise Linux (all versions) operating
  system is not supported on any system having the following
  controllers:

  * Promise RAID
  * CERC SATA 2S in RAID mode

  NOTE: In the above cases, option to install Red Hat Enterprise
  Linux operating system will not be presented in the "Select
  Operating Systems" page.

* Systems Build and Update Utility does not support Non RAID (Volume)
  mode on S100/S300 SWRAID controllers.
===
KNOWN ISSUES FOR NOVELL SLES10/SLES11 OPERATING SYSTEMS
===

* The Novell SLES 10 / SLES 11 operating system installation may fail
  on systems equipped with multiple RAID and/or SCSI controllers,
  whether installed on the system board or in PCI slots. This failure
  may occur when using Server Setup or performing a manual
  installation. When two or more RAID or SCSI controllers are
  present, install Novell SLES 10 / SLES 11 with only one configured
  RAID or SCSI controller. Configure the other controllers after you
  install the Novell SLES 10 / SLES 11 operating system.

* When certain cards, notably Qlogic or Emulex fiber channel cards,
  are present in PowerEdge R805 and PowerEdge M905 systems, SLES 11
  (and other linux kernels later than 2.6.27) may cause the system
  to reboot when drivers for those cards are loaded.

The issue occurs because the linux kernel changes the memory address
assignments to certain add-on PCI devices such that they overlap the
second I/O APIC interrupt controller in the system.

To workaround the issue for the PowerEdge R805, you can:
  - Set the Optical Drive Controller (under Integrated Devices) to
     On in system setup.
   This changes the system resource assignments such that this issue
      does not occur.

If this workaround fails, you can:
  - Add the kernel parameter acpi=noirq to the kernel command line
     to prevent the linux kernel from using the I/O APIC interrupt
     controllers.

To workaround the issue for the PowerEdge M905, you can:

  - Add the kernel parameter acpi=noirq to the kernel command line
     to prevent the linux kernel from using the I/O APIC interrupt
     controllers.

A fix for this would be available in a future update BIOS revisions
for SLES 11.

* On installing Novell SLES11 SP1, if the login Window is not gnome,
  reboot the system to restore gnome as the Window manager

==
KNOWN ISSUE(S) FOR VMware ESX 4.0 OPERATING SYSTEM
==

* If you choose to install VMware ESX 4.x operating system, the
  Dell Utility Partition is deleted during the operating system
  installation.

* When installing ESXi flash version (using recovery media), RAID virtual
  disks can not be created on the vFlash device itself. Virtual Disks can be
  created only on hard drives.

==
KNOWN ISSUE(S) FOR FIRMWARE UPDATE FEATURE
==
* The "View/Edit/Reset" becomes enabled for the "Firmware Update"
  even if user does not select any components for update.
  When user visits the "Firmware Update", specifies the Server Update
  Utility (repository) location either using the DVD or NFS or SMB
  or USB media, views the comparison report. If the server comparison
  report does not have any updatable components, user cannot configure
  anything in this page and user returns to the home page.
  However since the user configured the repository, the
  "View/Edit/Reset" option on the home page will be enabled irrespective
  of user's configuration of the firmware updates.

```
================================================================================
```
Notes on using syscfg and racadm commands
```
================================================================================
```

When a system is booted from Systems Build and Update Utility, the /opt
filesystem is linked to /tmp filesystem. Some functionality of syscfg and
racadm use /opt extensively.
If user mounts any other device (like a USB drive) to /tmp and issues
racadm or syscfg commands, the files in /opt will no longer be visible and the
commands will fail.

User is advised to create a temporary directory under under /mnt and mount
the USB devices there instead of mounting to /tmp

```
#############################################################################
```

Information in this document is subject to change without notice.
(C) 2010 Dell Inc. All rights reserved.

Reproduction in any manner, whatsoever without the written permission
of Dell Inc. is strictly prohibited.

Trademarks used in this text: "Dell," "PowerVault", "PowerEdge," and
"Dell OpenManage" are trademarks of Dell Inc.; "Microsoft" and
"Windows" and "Windows Server" are either trademarks or registered
trademarks of Microsoft Corporation; "SUSE", "NetWare" are registered
trademarks of Novell, Inc.; "Intel" is a registered trademark of
Intel Corporation; "Red Hat" and "Red Hat Enterprise Linux" are
registered trademark of Red Hat, Inc; "VMware" is a registered
trademark and "ESX Server" is a trademark of VMware, Inc; Conexant is
a registered trademark of Conexant Inc.

Other trademarks and trade names may be used in this document to
refer to either the entities claiming the marks and names or their
products.

Dell Inc. disclaims any proprietary interest in trademarks and trade
names other than its own.