##

DELL(TM) UPDATE PACKAGES README FOR MICROSOFT(R) WINDOWS(R)

##

Version 6.5
Release Date: March 2011

This Readme contains updated information for your "Dell Update
Packages for Microsoft Windows Operating Systems User's Guide" and any
other technical documentation included with the Dell Update Packages
for Windows operating systems.

Dell Update Packages offer ease and flexibility for updating the
system software on Dell PowerEdge(TM) systems. Update Packages are
available for the following software components:

* System BIOS

* System firmware, also known as the Embedded Systems Management (ESM)
  firmware

* Dell Remote Access Controller (DRAC) firmware, which also includes
  Embedded Remote Access (ERA) firmware

* PowerEdge Expandable RAID Controller (PERC) firmware and driver

* Cost-Effective RAID Controller (CERC) firmware and driver

* Software RAID Controller firmware and driver

* IDE Controller drivers

* Baseboard Management Controller (BMC) firmware

* SCSI Backplane (BP) firmware

* SAS BP firmware

* SAS Expander firmware

* SSD firmware

* SED firmware

* PowerVault 100T firmware

* PowerVault 110T firmware

* PowerVault MD1000 firmware

* PowerVault MD1120 firmware

* PowerVault MD1200 firmware

* PowerVault MD1220 firmware

* PowerVault RD1000 firmware

* Broadcom Network Adapter driver

* Intel(R) Network Adapter driver

* Power Supply firmware

* Broadcom Network Adapter Firmware

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##
CRITICALITY
##

2 - Recommended
It is recommended that you apply this update during your next
scheduled update cycle. The update contains feature enhancements or
changes that will help keep your system software current and
compatible with other system modules (firmware, BIOS, drivers, and
software).

##
MINIMUM REQUIREMENTS
##

The Update Packages support Dell systems running the following
Windows operating systems:

* Microsoft(R) Windows Server(R) 2003 R2 Web, Standard and Enterprise
  Editions with SP2 (32-bit x86)
* Microsoft Windows Server 2003 R2 Standard, Enterprise, and Datacenter
  x64 Editions with SP2
* Microsoft Windows Server 2008 R2 Standard, Enterprise, and Datacenter
  x64 Editions with SP2
* Microsoft Windows Small Business Server 2003 Standard and Premium
  Editions with SP2

* Microsoft Windows Server 2008 Core Standard, Enterprise, and Datacenter
  Editions (x64) with SP2
* Microsoft Windows Essential Business Server 2008 Standard and Premium
  Editions (x64) with SP1
* Microsoft Windows Small Business Server 2003 Standard and Premium
  Editions with SP2
* Microsoft Windows Small Business Server 2008 Standard and Premium
  Editions with SP2
* Microsoft Windows Small Business Server 2011 Standard and Premium
  Editions
* Microsoft Windows Storage Server 2008 R2 Express, Workgroup, Standard,
  and Enterprise Editions
* Microsoft Windows Server 2003 R2 Compute Cluster Edition and Microsoft
  Windows Server 2008 R2 HPC Edition
* Microsoft Hyper-V™ and Windows Server® 2008 with Hyper-V role

* Microsoft Hyper-V™ R2 and and Windows Server® 2008 with Hyper-V role R2

NOTE: For the latest information about the various Dell systems
and operating systems that Dell Update Packages are supported on,
see the "Dell Systems Software Support Matrix" on the Dell Support
website at "www.support.dell.com/manuals".

NOTE: Update Packages may also be applied in a pre-operating system
environment that uses the Embedded Linux (ELI) through the
Dell OpenManage(TM) Deployment Toolkit (DTK).

##
UPDATE PACKAGES: SUPPORTED COMPONENTS
##

Update Packages currently do not support every system component type.
Dell will continue to make Update Packages available on additional
devices in future releases.

This release of Update Packages supports updates to the devices
listed in the following table.

Component Type	Supported Components
BIOS	BIOS
ESM firmware	ESM3, ESM4
DRAC firmware	DRAC 4, DRAC 5, iDRAC6
RAID firmware	PERC 4/Di, PERC 4e/Di, PERC 4e/DC, PERC 4e/Si, PERC 4/DC, PERC 4/SC, PERC H200,PERC H700 PERC H800 Adapter, PERC S300 Adapter PERC 5/E, PERC 5/i,SAS 5/i, SAS 5/iR Adapter, SAS 5/E, SAS 5/iR, SAS 6/iR, SAS 6/iR Adapter, PERC 6/E, PERC 6/i, PERC 6/i Adapter, CERC 6/i

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RAID drivers            PERC 4e/Si, PERC 4e/Di, PERC 4/DC, PERC 4/im,
                PERC 4/SC, PERC 4e/DC, PERC 4/DI,
                PERC H200,
                PERC H700,
                PERC H800 Adapter, PERC S300 Adapter,
                PERC 5/E, PERC 5/i,
                PERC S100, SAS 5/E, SAS 5/iR, SAS 5/i,
                SAS 5/iR Adapter, SAS 5/E, SAS 5/iR,
                SAS 6/iR, SAS 6/iR Adapter, PERC 6/E,
                PERC 6/i, PERC 6/i Adapter, CERC6/i
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IDE controllers Drivers       CERC ATA 100,
                SI680A, CERC/SATA 2S, and CERC SATA 6ch
                drivers
--------------------------------------------------------------------------
BMC firmware          BMC
--------------------------------------------------------------------------
SCSI BP firmware       BP
--------------------------------------------------------------------------
SAS BP             BP
--------------------------------------------------------------------------
Storage enclosure      PowerVault MD1000,
                PowerVault MD1120, PowerVault MD1200,
                PowerVault MD1220, PowerVault MD3000
--------------------------------------------------------------------------
Tape drives firmware    PowerVault PV100T DDS4,
                PowerVault PV110T DAT72,
                PowerVault PV110T LTO1,
                PowerVault PV110T LTO2,
                PowerVault PV110T LTO2-L,
                PowerVault PV110T LTO3,
                PowerVault PV110T LTO3-HH,
                PowerVault PV110T LTO4,
                PowerVault PV110T SDLT320,
                PowerVault PV110T DLT VS80,
                PowerVault PV110T DLT VS160,
                PowerVault PV110T SDLT
--------------------------------------------------------------------------
Removable disk drive    PowerVault RD1000
backup firmware
--------------------------------------------------------------------------
Network adapter driver   Broadcom NetXtreme family of adapters
                Broadcom NetXtreme II family of adapters
                Intel PRO PCI-E Gigabit family of adapters


##########################################################################
KNOWN ISSUES
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--------------------------------------------------------------------------
For all Dell Update Packages
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* On systems with a FAT32 partition as the boot drive, you cannot
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execute DUPs and the inventory collector used by SUU as FAT32 does
not support access control lists.
* Do not run other applications while executing Dell Update Packages.

* For firmware Dell Update Packages, an update package will not
inventory the device if only a native non-Dell driver is installed.
Therefore, firmware update packages cannot upgrade a device with a
native driver.

* For driver Dell Update Packages, an update package can inventory
the device, but will not upgrade the driver if the native driver
is at a higher version than the Dell driver being installed.

* On some servers running Windows 2000, the digital signature
information of signed Dell Update Packages displays the message
"The certificate is not valid for requested usage."

Root Cause:

The message is caused by an out-of-date root certificate on the
server.

Solution:

To update the root certificate:

1) Enable Windows Update.
2) Access "www.update.microsoft.com" in a Web browser.
3) Select "Custom" to perform a scan of your machine for updates.
   After the scan completes, it will list all available updates.
4) Select the "Software, Optional" category.
5) Look for "Root Certificates Update", and select it. Your root
   certificates will be updated.
6) After your root certificates are updated, check the digital
   signature information of your Dell Update Packages again. The
   information should now indicate that the digital signature is
   valid.

See the following Website for reference:

"http://msdn.microsoft.com/library/default.asp?url=/library/en-us/
dnsecure/html/rootcertprog.asp"

* If you encounter the message, "This Update Package is not compatible
with any of the devices detected on your system", for a supported
device, ensure that you have the latest Dell drivers for
your system from the Dell Support website at "www.support.dell.com."

* If you are using Windows BitLocker(TM) on Windows Server 2008, wait
for BitLocker to finish encrypting the drive before executing Dell
Update Packages.

* The DUP update process involves several resets to the USB bus which
cause all USB devices to be enumerated again by the Operating

System. If you insert the USB device for the first time and if you
are prompted with the "Scan and Fix" process, select it to avoid
multiple "Scan and Fix" messages each time the USB bus reset
happens.

* Dell Update Packages do not require new refreshes of existing DUPs
to be reinstalled since the firmware or driver payload does not
change when the DUP is refreshed. A new DUP is available if
changes have been made to the firmware or driver payload

* If you login to a system running on Microsoft Windows Small Business
Server 2008 operating system, by default you are logged in as a
regular user even though you may have Administrator privileges. This
is due to an in-built feature called User Account Control (UAC) that
automatically reduces the potential of security breaches. Before you
run DUPs on your system, elevate the privileges for administrators
using Windows security options in Group Policy Editor. For more
information, see the DUPs User Guide.

Note: Ensure that a drive is available for DUPs to mount a partition
to complete an update successfully.

Unified Server Configurator (USC) Dell Update Packages (DUPs)
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* Lifecycle controller updates require system services to be enabled.

* For the first time, before you attempt to run Driver Package
Diagnostics DUPs, execute the USC DUP.

* If the operating system is installed from "Operating System
Deployment", select "Reboot and Exit" in the USC environment before
booting to the operating system. This closes the USC session which
is held for 18 hours. If you do not want to enter the USC and select
"Reboot and Exit", but want to execute the DUPs within 18 hours,
unplug the power supply of the system, wait for 10 seconds, and then
power on the system.

BIOS
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* A BIOS update requires enough free physical memory to load the
entire BIOS image into the physical memory. If there is
insufficient free physical memory available on the system to
load the BIOS image, the Dell Update Package for BIOS may
fail. In this instance, the BIOS can be updated using the
diskette method, by running the Dell Update Package after adding
more memory, or by running the Dell Update Package immediately after
a reboot.

* BIOS update is not supported on a PowerEdge R210 with BIOS version
1.0.33, 1.2.1, or 1.1.4 installed. BIOS versions earlier than 1.3.4

do not support the online update method used by the DUP process
on the PowerEdge R210 under Window Server 2008R2. To update BIOS from one
of the versions listed, use the offline BIOS update. Once version
1.3.4 of BIOS is installed, all future BIOS will be supported.

* BIOS update is not support on a PowerEdge T310 with BIOS version 1.0.2,
  1.1.6, or 1.2.1 installed. BIOS versions earlier than 1.3.6 do not
  support the online update method used by the DUP process on the
  PowerEdge T310 under Window Server 2008R2. To update BIOS from one of the
  versions listed, use the offline BIOS update. Once version 1.3.6
 of BIOS is installed, all future BIOS will be supported.

* BIOS update is not support on a PowerEdge R310 with BIOS version 1.0.0
  installed. BIOS versions earlier than 1.1.5 do not support the online
  update method used by the DUP process on the PowerEdge R310 under
  Window Server 2008R2. To update BIOS from one of the versions listed,
  use the offline BIOS update. Once version 1.1.5 of BIOS is
  installed, all future BIOS will be supported.

Dell Embedded Open Manage Server Administrator

The Dell Update Package for Dell Embedded Open Manage Server
Adminstrator can only be applied in a pre-operating system environment
that uses the Embedded Linux (ELI) through the Dell OpenManage(TM)
Deployment Toolkit (DTK).

BMC firmware and BP firmware
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* When upgrading the BMC/ESM firmware or the BP firmware on PowerEdge
  x8xx or x9xx servers with the Windows Server 2003 R2 IPMI driver
  installed, the update may take up to 20 minutes to complete.

  To expedite such updates on PowerEdge x8xx or x9xx servers,
  you can uninstall the R2 IPMI driver before performing the firmware
  upgrade operation using the command "rundll32 ipmisetp.dll,
  RemoveTheDevice" from a command prompt.
  After the firmware flash is complete, you can install the driver
  again by executing the command "rundll32 ipmisetp.dll,
  AddTheDevice". On PowerEdge x9xx servers, the driver can be
  re-installed by performing a "Scan for hardware changes" in the
  Device Manager.

BMC firmware
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* When upgrading the BMC/ESM firmware on PowerEdge x8xx or x9xx
  servers with the Windows Server 2003 R2 IPMI driver installed,
  multiple time-out warning messages from source "IPMIDRV" with Event

ID 1004 are logged in the System Log in the Event Viewer console.

These messages can be safely ignored. However, to prevent the
messages from being logged, you can uninstall the R2 IPMI driver
before performing the firmware upgrade operation using the command
"rundll32 ipmisetp.dll, RemoveTheDevice" from a command prompt.

After the firmware flash is complete, you can install the driver
again by executing the command "rundll32 ipmisetp.dll,
AddTheDevice". On PowerEdge x9xx servers, the driver can be
re-installed by performing a "Scan for hardware changes" in the
Device Manager.

For more information on this issue, including its cause,
see the Microsoft KB article number 912596.

11G iDRAC
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* When upgrading the iDRAC firmware for the first time on a server
  with Windows operating system, the following message might
  be displayed: "Windows has finished installing new devices.
  The software that supports your device requires that you restart
  your computer. You must restart your computer before the new
  settings will take effect. Do you want to restart your
  computer now?"
  Select "No" to ignore this message. This message is due to the
  creation of a temporary USB device used for storing the firmware
  image. If you select "Yes", the firmware update process stops.

DRAC 5 firmware
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* Before updating the DRAC firmware, ensure that the following
  conditions are met:

  - USB is enabled
  - IPMI is working properly
  - DRAC Virtual Flash is not in use by the operating system or
    another application
  - WMI service is running

Power Supply Unit firmware
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* Power Supply Unit firmware updates can be performed only on Life Cycle
  Controller enabled systems.

All PERC firmware and all SAS firmware
(All storage controller firmware)
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* Only devices connected to a PERC SAS controller can be updated at this
  time.   This includes PERC5, PERC6, H200, H700, H800, SAS5 and SAS6
  controllers.

* Do not run storage controller update packages if the controller is
  in use by other applications.

  The firmware upgrade may fail if any of the RAID controllers in the
  system are performing an I/O background task (consistency
  check, background initialization, rebuild, or reconstruction). Allow
  the background task to complete before attempting to upgrade the
  firmware. "Patrol Read" tasks will not affect a firmware upgrade.

PERC 4 firmware
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* Firmware updates require a reboot to take effect.

* If a PERC update package fails on a Windows 2000 system, ensure
  that the version of your installed PERC driver is 5.35.2 or higher.
  You can obtain the latest PERC driver update package from the Dell
  Support website at "www.support.dell.com."

PowerVault MD1000 firmware
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* The PowerVault update procedure requires the RAID controller to
  be in a known good state. If a problem occurs with the RAID
  controller during the update procedure, the Update Packages cannot
  communicate with the PowerVault system, inventory its firmware
  version, or perform the update. (138462)

PowerVault MD1000 firmware
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* Stop all input/output to the PowerVault MD1000 before running
  the PowerVault MD1000 firmware update package.

* WARNING: THE SERVER MUST BE REBOOTED AFTER UPDATING THE FIRMWARE ON
  MD1000 ENCLOSURES IN ORDER TO MAINTAIN ENCLOSURE MANAGEMENT. ACCESS
  TO THE ENCLOSURES WILL BE LOST IF THE SERVER IS NOT REBOOTED.

* When prompted for reboot after the update, select "Yes".

PowerVault PV100T DDS4 firmware and all PowerVault PV110T firmware
(PV110T DDS4, PV110T DAT72, PV110T LTO1, PV110T LTO2, PV110T LTO2-L,
PV110T LTO3-HH, PV110T LTO4, PV110T SDLT320, PV110T LTO3,
PV110T DLT VS80, PV110T DLT VS160, and PV110T SDLT)
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* Before executing the firmware update, stop all tape backup
  activity and put all scheduled jobs on hold.

* After the firmware update is completed, restart your system for
  the updates to take effect.

* Tape automation devices are not supported by Dell Update
  Packages. Please disconnect or power off such devices before
  executing Dell Update Packages.

  The tape automation devices are as follows:

    1. PowerVault PV120T
    2. PowerVault PV122T
    3. PowerVault PV124T
    4. PowerVault PV128T
    5. PowerVault PV130T
    6. PowerVault PV132T
    7. PowerVault PV136T
    8. PowerVault PV160T
    9. PowerVault ML6000

NIC firmware

Broadcom NIC firmware updates are not supported on 8th generation
systems but are supported on newer systems provided the hardware is present.

Storage Controller Drivers

Not all storage controller drivers support the fresh install feature.
The older driver packages that do not support this feature are listed
here:

Dell PERC 4/IM, v.1.8.6, A00 ; A00 ; DRVR-R47682.exe

Dell PERC 4/IM, v.1.9.11.0, A00 ; A00 ; RAID-DRVR-R87058.exe
Dell PERC 4/IM, v.1.9.11.0, A02 ; A02 ; RAID-DRVR-R87059.exe
Adaptec U320 SCSI RAID 0 or 1, v.2.0.0.3 ; A00 ; RAID_DRVR_WIN_R98040.EXE

LSI Logic PERC 4/SC, PERC 4/DC, PERC 4e/ ; A01 ; RAID_DRVR_WIN_R100373.EXE

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