###

INTEGRATED DELL(TM) REMOTE ACCESS CONTROLLER 6 (iDRAC6) VERSION 3.00

###

This document contains updated information about the Integrated Dell
Remote Access Controller 6.

For more information about iDRAC6, including installation and
configuration information, see the "Integrated Dell Remote Access
Controller 6 (iDRAC6) Enterprise for Blade Servers Version 3.00
User Guide" and the "Dell OpenManage(TM) Server Administrator
User's Guide." These documents are located on the Dell Support
website at "support.dell.com/manuals." On the "Manuals" page, click
"Software" > "Systems Management". Click on the appropriate product
link on the right-side to access the documents.

###
TABLE OF CONTENTS
###

This file contains the following sections:

* Criticality

* Minimum Requirements

* Release Highlights

* Important Notes and Known Issues

###
CRITICALITY
###

2 - Recommended

###
MINIMUM REQUIREMENTS
###

===

SUPPORTED SYSTEMS

===

iDRAC6 is supported on the following Dell PowerEdge(TM) systems
in the Dell PowerEdge M1000e system enclosure:

* Dell PowerEdge M610
* Dell PowerEdge M710
* Dell PowerEdge M910
* Dell PowerEdge M610x

* Dell PowerEdge M710HD

==
SUPPORTED MANAGED SERVER OPERATING SYSTEMS
==
The iDRAC6 is supported by the following operating systems:

* Microsoft(R) Windows Server(R) 2003 family

  The Windows Server 2003 family includes:
  - Windows Server 2003 (Standard, Enterprise, and DataCenter
    Editions) with SP2 (x86, x86_64)
  - Windows Server 2003 Web Edition with SP2 (x86, x86_64) on M910 only
  - Windows Server 2003 R2 (Standard, Enterprise, and DataCenter
    Editions) with SP2 (x86, x86_64)

* Microsoft Windows Server 2008 SP2 (Standard, Enterprise,
  and DataCenter Editions) (x86, x86_64)
  - Windows Server 2008 SP2 Web Edition (x86, x86_64) on M910 only

* Microsoft Windows Server 2008 EBS SP1 (Standard and Premium Editions)

* Microsoft Windows Server 2008 R2 (Standard, Enterprise,
  and DataCenter Editions) (x86_64)
  - Windows Server 2008 R2 Web Edition (x86_64) on M910 only

* SUSE(R) Linux Enterprise Server (SLES) 10 SP3 (x86_64)

* SUSE Linux Enterprise Server (SLES) 11 (x86_64)

* Red Hat(R) Enterprise Linux (RHEL) 4.8 (x86, x86_64)

* Red Hat(R) Enterprise Linux (RHEL) 5.5 (x86, x86_64)

* Hyper-V(TM) and Hyper-V R2

* VMware(R) ESX 4.0 Update 1

* ESXi(TM) 4.0 Update1 Flash

* XenServer(TM) 6.0 HDD

Note:
    Use the Dell-customized ESXi 4.0 Update 1 Embedded edition. This
    image is available at support.dell.com and www.vmware.com. The remote
    deployment and local installation of ESXi through Virtual Media is
    not supported for standard ESXi Embedded version 4.0, as the
    installation may fail with the error message, "Installation failed
    as more than one USB device found."

==
SUPPORTED WEB BROWSERS

==
* Microsoft Internet Explorer(R) 7.0 for Windows Server 2003 SP2,
  Windows Server 2008 SP2, Windows XP SP3, and Windows Vista(R) SP2

* Microsoft Internet Explorer 8.0 for Windows Server 2003 SP2,
  Windows Server 2008 SP2, Windows Server 2008 R2, Windows XP SP3,
  Windows 7, and Windows Vista(R) SP2.
  Internet Explorer 8 requires Java(TM) Runtime Environment (JRE)
  version 1.6.14 or later

* Microsoft Internet Explorer 8.0 (64-bit) for Windows 7 (x86_64)
  and Windows Server 2008 R2 (x86_64)

* Mozilla(R) Firefox(R) 3.0 on Windows XP SP3, Windows Server 2003 SP2,
  Windows Server 2008 SP2, Windows Server 2008 R2, Windows Vista SP2,
  Windows 7, RHEL 4.8, RHEL 5.4, SLES 10 SP3, and SLES 11

* Mozilla(R) Firefox(R) 3.6 on Windows Server 2008 SP2,
  Windows Server 2008 R2, Windows Vista SP2, Windows 7, RHEL 4.8,
  RHEL 5.4, and SLES 11

* Mozilla(R) Firefox(R) 3.6 (64-bit) on RHEL 5.4 (x86_64) and
  SLES 11 (x86_64)

==
FIRMWARE VERSIONS
==
Recommended firmware versions for CMC and BIOS:

* CMC Firmware: 3.0 (required for M610x and M710HD)
* Dell PowerEdge M610 BIOS: 2.1.8 or later
* Dell PowerEdge M710 BIOS: 2.1.8 or later
* Dell PowerEdge M910 BIOS: 1.1.6 or later
* Dell PowerEdge M610x BIOS: 2.1.8 or later
* Dell PowerEdge M710HD BIOS: 1.0.x or later

##
RELEASE HIGHLIGHTS (FIRMWARE VERSION 3.00)
##

* Support for M610x and M710HD systems
* Remote Enablement enhancements
* vFlash enhancements
* New Web GUI visual design
* Virtual Console preview
* Regular maintenance

##
IMPORTANT NOTES AND KNOWN ISSUES FOR iDRAC6 3.00
##
This section provides important notes and additional information about
known issues for the iDRAC6 Firmware version 3.00:

* If you are upgrading from iDRAC versions 2.1 or 2.2, you must first
  install iDRAC version 2.30 or 2.31 before installing the 3.00 version.

* When connecting to the iDRAC Web interface with a certificate the
  browser does not trust, the browser's certificate error warning may
  display a second time after you acknowledge the first warning. This
  is the expected behavior to ensure security.

* To use Virtual Console with Java plug-in, the supported JRE version
  is 1.6.0_20 or higher.

* When the JRE is configured to verify the certificate against
  a Certificate Revocation List (CRL) and/or online certificate
  validation the certificate validation may sometimes fail. This
  is because the Certificate Authority (CA) that issued the certificate
  is not accessible due to connectivity problems or is not
  responding in a timely manner. In such cases, wait and retry at
  a later time.

* Remote Services: When using TFTP to download an ISO image to the
  vFlash, if the image exceeds the partition size, no error message
  will be generated. However, subsequent operations on the ISO will
  fail.

* On certain hardware configurations, based on the firmware release,
  firmware downgrades are not allowed.

* For Remote Enablement auto-discovery, ensure that the user ID on
  the provisioning server does not contain any spaces, as iDRAC6 user
  IDs may not contain spaces. If a user ID containing spaces is
  configured on the provisioning server, the auto-discovery process
  may be successful, but the resulting iDRAC6 account will not be usable.

* If you run Dell Update Packages (DUPs) when vFlash is in-use, the
  vFlash is disconnected and reconnected. If a write operation is
  in-progress, this action can corrupt the vFlash contents. If this
  occurs, the vFlash SD card will have to be re-initialized.

* Reboot the managed system running on VMware ESX 3.x operating
  system after an iDRAC6 update is completed. This ensures that
  the VMware ESX operating system re-enumerates the virtual
  devices and enables virtual floppy and virtual CD-ROM
  features of the iDRAC6. After the reboot, virtual devices
  including virtual floppy, work as expected.

* Updating iDRAC6 using the DOS Utility when DOS is booted using PXE.
  The iDRAC6 can be updated using the DOS utility when DOS is booted
  using PXE. However, the new firmware image has to be on a local media
  on the system for this to work properly. Local media can be a RAMDISK,
  HD, or a USB key on the server. When the image is stored on non-local
  devices like a network drive, PXE server drive, and so on, the iDRAC6
  update on multiple systems must be sequenced that is, it should be
  done one system after the other. After the first system completes the

update, the second system starts the update. After the second system
completes the update, the third system starts the update and so on.

* On systems running Windows operating systems, the
  Explorer window(s) for any media does not close automatically if you
  remove the media. You must close the window(s) after you remove
  the media.

  On systems running Linux operating systems, the file
  browser window(s) for any media closes automatically if you remove
  the media.

* iDRAC6 Linux DUPs do not support VMware ESX 4.0 operating
  systems. If the Linux DUP for iDRAC6 is run on VMware
  ESX 4.0, the DUP will fail.

  You can update iDRAC6 using one of the following methods:

    - CMC GUI-based update

    - iDRAC6 GUI-based update

    - Remote RACADM-based update

* If you receive the message "A webpage is not responding on
  the following website" in Internet Explorer 8.0, see:

  "http://blogs.msdn.com/ie/archive/2009/05/04
  /ie8-in-windows-7-rc-reliability-and-telemetry.aspx"

  "http://support.microsoft.com/?kbid=970858"

* In Internet Explorer 7.0, if several tabs are open and you launch
  the iDRAC6 Virtual Console, all the tabs are hidden while
  the Virtual Console is open. If the tab warning is turned off and
  you close the Virtual Console, all the tabs and the browser
  closes without warning.

  To prevent this, go to "Internet Properties" > "Tabs" >
  "Settings" and select the "Warn me when closing multiple tabs"
  option.

* If a Virtual Media drive is disconnected using the "OS eject"
  option, then the drive may not be available until the operating
  system re-enumerates the USB devices. For the operating system
  to auto-detect the Virtual Media drive, the iDRAC6 Virtual Media
  device can be reattached. To do this:
    1. Go to "System" > "Virtual Console/Media" >"Configuration".
    2. Set the "Attach Virtual Media" option to "Detach" and click "Apply".
    3. Set the "Attach Virtual Media" option to "Attach" and click "Apply".

* The "racresetcfg" command in RACADM restores all properties to
  their default values except "cfgDNSRacName" in the
  "cfgLanNetworking" group.

* The iDRAC6 Linux DUP cannot be run on 64-bit RHEL 4 Update 7
  due to known issues in that operating system. See the Red Hat
  KB article at "http://kbase.redhat.com/faq/docs/DOC-3402" to
  use the DUP on RHEL 4 Update 7.

* Smart Card login fails after a logout from the same browser window.
  Open a new browser window to login.

* When using a configuration file with RACADM to configure
  iDRAC6, changing objects that affect the network
  connection stops the rest of the configuration file
  from taking effect.

* To execute iDRAC DUPs in XenServer(TM) 5.6, you must install
  the procmail package. You can install the procmail RPM in CentOS
  5.4 i386, which can be downloaded from any public site that hosts
  CentOS packages. However, it is recommend not to install *any*
  RPMs manually on XenServer, instead it is recommended that you
  download and install the OpenManage Supplemental Pack from
  support.dell.com. It contains the procmail package and is the
  supported method for installing third party packages and applications
  in XenServer.

* Using the iDRAC web console to shutdown the XenServer operating
  system by selecting "Graceful Shutdown" does not shut down the
  server. As best practice, it is recommended that you use the
  shutdown menu option in the XenServer console or in the XenCenter
  management GUI.

* TFTP firmware update from local RACADM will not work after a
  racresetcfg or if IPv6 addresses are used. Use the firmware
  RACADM for TFTP firmware update.

* When using the virtual console on RHEL with Firefox, if the
  network connection to the iDRAC is lost a blank message box
  may pop up. If the network connection is shortly restored
  the message box may eventually display the "Virtual Console
  is restarted" message and will then close. Normally the
  message will immediately display in the message box but on
  rare occasions it may not display. The display of the message
  is controlled by the JRE and if the blank message box is
  seen this is not an iDRAC firmware issue.

* When connecting to the iDRAC GUI using browsers supporting
  localized languages, some popups may have generic messages that
  are not localized in the title such as: "The page at
  https://10.35.155.207 says:". This is a browser limitation
  and cannot be changed in the iDRAC.

* When using the Virtual Console that uses the Java plug-in with attached
  Virtual Media, occasionally when disconnecting the Virtual Media the
  console also closes unexpectedly. When this happens, restart
  the Virtual Console to regain access.

* When the system is configured for extended schema and a device object
  is created in the Active Directory(TM) child domain, iDRAC launch using
  Single Sign-On (SSO) fails for the user created in the child domain and
  the root domain. To successfully perform SSO when the user object is
  defined in the child domain, associate the user object in the child
  domain with "Authenticated user" group.

* During the SLES 11 installation through the "Dell Systems Management
  Tools and Documentation" DVD, if the DVD is connected through Virtual
  Media, the image installation may not proceed after the system
  configuration step. It shows a warning dialog message similar to
  the following:
  "Empty destination in URL: hd:///install/?device=/dev/sdc1".
  To continue the installation, delete the question mark '?', refresh
  the URL and the installation will proceed. This issue is not seen when
  using the managed system's local CD/DVD or using the operating system DVD
  directly instead of the "Dell Systems Management Tools and
  Documentation" DVD.

* When using the WSMan DCIM_RAIDService GetAvailableDisks method to retrieve
  specific RAID devices, the XML file passed to the command will contain a
  "RaidLevel" value for selection. No error checking is done on the RaidLevel
  Value. Therefore, if an incorrect or invalid value is specified, incorrect
  results may be returned (for example, "abcd" becomes "0"; "64.999" becomes
  "64"). The RaidLevel specified must be an appropriate integer RAID
  level value ("1", "2", "4", "64", "128", "2048", "8192", "16384", per
  DCIM_VirtualDiskView.mof).

* When all the 16 iDRAC-supported user accounts are configured, attempts to
  modify user privileges through the iDRAC GUI fails with the error message
  "Cannot delete or disable the user. At least one user must be enabled".
  Temporarily disabling any one user account restores the ability to modify
  (all) user account settings. After completing the required account
  privilege changes, the disabled account may be re-enabled.
  Alternatively, RACADM may be used to modify account settings,
  irrespective of the number of user accounts that are configured.

* At times, the Virtual Console feature of iDRAC becomes unavailable.
  When this happens issue a "racadm racreset" command to reaccess the
  Virtual Console.

* On few Windows operating systems, under certain conditions, the iDRAC
  ivmcli.exe will fail. This is due to run-time components of Visual C++(R)
  Libraries (VC++ 2008 redistributable package) required to run applications
  that are not available. To resolve this, download and install Microsoft
  Visual C++ 2008 Redistributable Package (x86) from the following location:
  http://www.microsoft.com/downloads/details.aspx?familyid=9B2DA534-3E03-4391-
  8A4D-074B9F2BC1BF&displaylang=en

* When launching both the iDRAC GUI and the Virtual Console from CMC for
  the same managed server, a cmc_root GUI session may not be closed properly
  even when properly logging out of the CMC launched iDRAC GUI window. If
  this happens, it must be closed manually or the session will remain open

until it reaches the session timeout. This reduces the available Web sessions
for logging into the iDRAC until it times out. This session can be closed
through the "racadm closessn" command or by navigating to the iDRAC Sessions
GUI page at "System / Remote Access / iDRAC6" > "Network/Security" > "Sessions".

* When using the iDRAC Virtual Console to connect to a managed server with a
recent Linux distribution operating system installed, you may experience
mouse synchronization problems. This may be due to the Predictable Pointer
Acceleration feature of the GNOME desktop. For proper mouse synchronization
in the iDRAC Virtual Console, this feature must be disabled. To disable
Predictable Pointer Acceleration, in the mouse section of the
/etc/X11/xorg.conf file, add: Option "AccelerationScheme" "lightweight".
If synchronization problems continue to be experienced, make the following
additional changes: In the <user_home>/.gconf/desktop/gnome/peripherals/mouse/
%gconf.xml file, change the values for "motion_threshold" and
"motion_acceleration" to "-1".

* To use Virtual Media with recent Windows releases on the management station,
you should log into the management station with an Administrator's account.
If you do not, the CD/DVD redirection may not work properly and may cause
continuous USB bus resets. If this happens, set the "Attach Virtual Media"
option to "Detach" to stop the USB bus resets and allow CD/DVD redirection
to work properly when you log in again with an Administrator's account.

* When you create a vFlash partition from an image file using the GUI or
RACADM, if you do not have an open browser for the iDRAC GUI, you will not
be able to connect to the GUI until the create operation is completed. If
you need to connect to the iDRAC GUI, you must first have the browser
connected to the iDRAC URL to have access. This is important when a large
partition is being created from an image file since it may take a long
time to complete.

* If the browser is enabled to use a proxy server, you will not be able to
connect to the iDRAC GUI. The browser must be set to not use a proxy
server for the iDRAC IP address.

* The mention of WS-MAN support for digest authentication in chapter 16 of
the User Guide is incorrect. iDRAC6 does not support digest authentication.

##

July 2010