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INTEGRATED DELL(TM) REMOTE ACCESS CONTROLLER 6 (iDRAC6) Version 2.20

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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 2.2
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".

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###
CRITICALITY
###

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

* Dell PowerEdge M610
* Dell PowerEdge M710

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SUPPORTED MANAGED SERVER OPERATING SYSTEMS
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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 R2 (Web, Standard and Enterprise
    Editions) with SP2 (x86)
  - Windows Server 2003 R2 (Standard, Enterprise and DataCenter
    Editions) with SP2 (x64)
  - Windows Server 2003 R2 SBS (Standard and Premium Editions) with SP2

* Microsoft Windows Server 2008 SP2 with core (Web, Standard,
  Enterprise and DataCenter Editions) (x86)

* Microsoft Windows Server 2008 SP2 with core (Standard, Enterprise,
  and DataCenter Editions) (x64)

* Microsoft Windows Server 2008 EBS SP2 (Standard and Premium Editions)

* Microsoft Windows Server 2008 R2 (Web, Standard, Enterprise
  and DataCenter Editions) (x64)

* Microsoft Windows Server 2008 HPC Edition

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

* SUSE Linux Enterprise Server (SLES) 11

* Red Hat(R) Enterprise Linux (RHEL) 4.7 (x86_32, x86_64)

* RHEL 4.8 (x86_32, x86_64)

* RHEL 5 Update 3 (x86_32, x86_64)

* VMware(R) ESX 3.5 Update 4

* VMware ESX 4.0 Update 1

* ESXi 3.5 Update4 Flash

* ESXi 4.0 Update1 Flash

* XenServer 5.5 - SD, USB, HDD

* Hyper-v Server and Hyper-V

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SUPPORTED WEB BROWSERS
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* Microsoft Internet Explorer(R) 6.0 with SP2 for Microsoft Windows(R)
  XP, Windows 2003 Server Gold, Windows 2003 Server SP1, and Windows
  2003 Server SP2

* Microsoft Internet Explorer 7.0 for Windows 2003 Server Gold,
  Windows 2003 Server SP1, Windows 2003 Server SP2, Windows Server
  2008, Windows XP and Windows Vista(R)

* Microsoft Internet Explorer 8.0 for Windows 2003 Server Gold,
  Windows 2003 Server SP1, Windows 2003 Server SP2, Windows Server
  2008, Windows Server 2008 R2, Windows XP and Windows Vista(R). IE8
  requires JRE version 1.6.14 or later

* Mozilla Firefox 3.0 on Windows 2003 Server Gold, Windows 2003
  Server SP1, Windows 2003 Server SP2, Windows 2000 Pro, Windows XP,
  Windows Server 2008, Windows Vista, RHEL 4, RHEL 5, SLES 10 and
  SLES 11

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FIRMWARE VERSIONS
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Recommended firmware versions for CMC and BIOS:

* CMC Firmware: 2.2
* Dell PowerEdge M610 BIOS: 1.3.x or later
* Dell PowerEdge M710 BIOS: 1.3.x or later

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RELEASE HIGHLIGHTS (FIRMWARE VERSION 2.20)
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* PK Authentication command line interface support
* Open LDAP and OpenDS directory service support
* Active Directory DNS SRV lookup
* Enhanced VFlash support
* Improved home page
* Additional WS-Man profile support
* Expanded Mezzanine card support
* Remote Enablement enhancements
* Provides the ability to launch vKVM/vMedia by entering a URL and
  through CMC
* Remote Services enhancements including remote firmware inventory
  and firmware update, enhanced auto-discovery, and enhanced remote
  operating system installation

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KNOWN ISSUES FOR iDRAC6 2.20
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This section provides additional information about known issues with
the iDRAC6 Firmware version 2.20:

* Remote Services: When using TFTP to download an ISO image to the
  VFlash, if the image exceeds the partition size, no error message
  is flagged. Subsequent operations on the ISO however will fail.

* Remote Services: Installing SLES 11 remotely is not functional at
  this point.

* If you reconfigure your client system's display language, ensure
  that the "Language for non-Unicode programs" setting matches the
  selected "Display language". If these settings do not match, some
  or all of the ActiveX vKVM display elements (menu items, dialogs,
  and so on) may not display properly. For more information about
  setting the display language and system locale, see the Windows
  Help and Support center on your system.

* After a firmware downgrade, the iDRAC6 configuration needs to be
  reset to default values using "RACADM racresetcfg" or using the
  iDRAC6 Configuration Utility (Ctrl-E) in POST. This is not
  applicable when upgrading iDRAC6 firmware.

* For Remote Enablement auto-discovery, ensure that you do not
  assign a user ID with spaces on the provisioning server. This is
  because even though this user ID will be successfully downloaded
  and provisioned on iDRAC6 during the auto-discovery process, the
  account will not be usable as iDRAC6 rejects any user ID with
  spaces.

* For ESX 4.0, if you try to install Dell Update Packages (DUPs),
  Systems Build and Update Utility or OpenManage Server Administrator
  (OMSA) using vMedia, the installation fails. To work around this
  issue, disable the "System Services" using iDRAC6 Configuration
  Utility (Ctrl-E) in POST, and then use the OM DVD. The "System
  Services" can be re-enabled after the OM DVD installation is
  complete.

* If you run 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.

* 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.

* 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.
  Alternatively, the update of iDRAC6s on multiple systems has
  to be sequenced. It should be done one system after the other,
  with the first system completing update and the second system
  starting update and on to the third after the second is done,
  and fourth after the third is done, and so on.

* On systems running Windows operating systems, the Internet

Explorer window(s) for any media will not close by
themselves if you remove the media. You must close the
window(s) after you remove the media.

On systems running Linux operating systems, the Internet
Explorer window(s) for any media will close by
themselves 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 remote console, all the tabs are hidden while
  the remote console is open. If the tab warning is turned off and
  you close the remote console, all the tabs and the browser will
  close without warning.

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

* If multiple iDRAC6 web GUI sessions are launched through CMC
  single sign-on, "racadm getssninfo" will show information
  only for the first session.

* To use iVMCLI on Microsoft Windows Vista operating systems,
  the user requires administrator privileges. If iVMCLI is run on
  Vista to connect a CD or ISO image without administrator
  privileges, it appears to be working, but will eventually
  timeout and ask the user to check network/proxy settings.
  This same command will work if the 'cmd' prompt is opened
  with administrator privileges.

* If a vMedia 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 vMedia drive, the iDRAC6 vMedia device

can be reattached by doing the following:

  Go to "System" > "Console/media" >"Configuration", select
  "Set Attach Virtual Media to Detach" and click "Apply".
  Next, "Set Attach Virtual Media to Attach" and click
  "Apply".

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

* The actual time for the "racresetcfg" command within racadm
  to execute may vary depending on the network speed.

* The iDRAC6 Linux DUP cannot be run on 64-bit RHEL 4 Update 7
  due to known issues in that OS. See the RedHat
  KB article 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 RACADM to configure iDRAC6 when using a configuration
  file, indexed groups will not operate properly.

* When using remote RACADM to configure iDRAC6 when using a
  configuration file, changing objects which affect the network
  connection will stop the rest of the configuration file
  from taking effect.

* There are some RACADM objects which cannot be configured using a
  configuration file. Configure one object at a time.

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