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Integrated DELL(TM) REMOTE ACCESS CONTROLLER 6 (iDRAC6) Version 1.10

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Version 1.10
Release Date: June 2009

This readme contains updated information about the Integrated Dell Remote Access Controller 6 (iDRAC6).

For more information about iDRAC6, including installation and configuration information, see the "Integrated Dell Remote Access Controller 6 (iDRAC6) Version 1.1 User's Guide" and the "Dell OpenManage(TM) Server Administrator User's Guide." These documents are located on the Dell Support site at "support.dell.com\manuals".

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CRITICALITY

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1 - Critical

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MINIMUM REQUIREMENTS

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The following subsections list operating systems that are compatible with the iDRAC6.

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SUPPORTED SYSTEMS

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iDRAC6 is supported on the following Dell PowerEdge(TM) systems:
*PowerEdge T710 (Zooks)

- *PowerEdge R710 (Bluefish)
- *PowerEdge T610 (Thidwick)
- *PowerEdge R610 (Sneetch)
- *PowerEdge T410 (CindyLou)
- *PowerEdge R410 (Yertle)

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 R2 (Web, Standard and Enterprise Editions) with SP2 (x86).
- Windows Server 2003 R2 (Standard, Enterprise and DataCenter Editions) with SP2 (x64).
- Windows Server 2003 (SBS, Standard, and Premium Editions) with SP2.

- * Microsoft Windows Server 2008 with core (Web, Standard, and Enterprise Editions) (x86)
- * Microsoft Windows Server 2008 with core (Standard, Enterprise, and DataCenter Editions) (x64)
- * Microsoft Windows Server 2008 SBS, EBS, Standard, and Premium Editions
- * SUSE(R) Linux Enterprise Server (SLES) 10 SP2
- * SUSE(R) Linux Enterprise Server (SLES) 11 SP2
- * Red Hat(R) Enterprise Linux (RHEL) 4.7 (x86_32, x86_64)
- * RHEL 5 Update 2 (x86_32, x86_64)
- * VMware(R) ESX 3.5 Update 4
- * VMware ESXi 3.5 Update 4 Flash

SUPPORTED WEB BROWSERS

- * Microsoft Internet Explorer 6.0 with SP2 for Microsoft Windows(R) XP, Windows 2000 Sever, Windows 2000 Pro, 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, and Windows Vista(R)
- * Mozilla Firefox 2.0 on SLES 10 SP1

* 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 9, SLES 10, SLES 11, and SLES 10 SP1

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FIRMWARE VERSIONS
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* iDRAC6 Firmware Version: 1.10

RELEASE HIGHLIGHTS (FIRMWARE VERSION 1.10)
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* Defect Fixes

For Standard Schema, the Global Catalog search does not handle the same name in different domains correctly.

iDRAC6 firmware update failure is caused due to a failure in the initialization script.

RELEASE HIGHLIGHTS (FIRMWARE VERSION 1.10)
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iDRAC6 Management Features for the release include:

- * IPv6 support
- * Enhanced LCD functionality including configuration and menu
- * Web Services Management (WS-MAN) support
- * Enhanced power management including support for setting power budget thresholds
- * Smart Card authentication support
- * Dynamic Domain Name System (DDNS) registration
- * Remote system management and monitoring using a Web interface, the RACADM command line interface, the SM-CLP command line over a telnet/SSH and serial connection.
- * Support for Microsoft Active Directory(R) authentication -- Centralizes iDRAC6 user IDs and passwords in Active Directory using the standard schema or an Extended Schema.
- * Console Redirection -- Provides remote system keyboard, video,

and mouse functions.

- * Virtual Media -- Enables a managed server to access a local media drive on the management station or ISO CD/DVD images on a network share.
- * Monitoring -- Provides access to system information and status of components.
- * Access to system logs -- Provides access to the system event log, the iDRAC6 log, and the last crash screen of the crashed or unresponsive system that is independent of the operating system.
- * Dell OpenManage(TM) integration -- Enables you to launch the iDRAC6 Web interface from Dell OpenManage Server Administrator or Dell OpenManage IT Assistant.
- * iDRAC6 alert -- Alerts you to potential managed node issues through an email message or SNMP trap.
- * Remote power management -- Provides remote power management functions, such as shutdown and reset, from a management console.
- * Intelligent Platform Management Interface (IPMI) 2.0 support.
- * Secure Sockets Layer (SSL) encryption -- Provides secure remote system management through the Web interface.
- * Password-level security management -- Prevents unauthorized access to a remote system.
- * Role-based authority -- Provides assignable permissions for different systems management tasks.

NOTE: iDRAC6 Enterprise is required to support dedicated NIC, Virtual KVM, Virtual Media, Virtual Flash (with an optional Dell vFlash Media card), and RACADM functionality.

KNOWN ISSUES FOR iDRAC6 v1.10
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This section provides additional information about known issues with the iDRAC6 firmware version 1.10.

- * Configuring iDRAC6 to use Static IP using "syscfg" utility

Given below is the method to use the syscfg utility to set the iDRAC6 to use a static IP address. It has to be done in 2 steps:

Step 1: "syscfg lcp --ipaddrsrc=static"

Wait at least 5 seconds. After this time, the change to static IP will be in effect and the next syscfg command will succeed.

Step 2: "syscfg lcp --gateway=(gateway IP) --ipaddress
=(valid IP address) --subnetmask=255.255.255.0"

* Manual operating system installation requirement when using
"virtual floppy"

When using Virtual Media to install an operating system, the
following is required to allow the Installation to complete
successfully:

When installing drivers using a floppy disk, ensure the Virtual
floppy device is set as the first device in the Boot sequence in the
System BIOS (F2). This will allow the operating system to see the
required mass storage device drivers on the floppy to complete the
installation. This way, the drivers in the floppy can be used to
install the storage drivers and complete the Windows and other
installation.

* Configuring the "Host Name String" using the iDRAC6 Configuration
Utility with Server Administrator (OMSA) installed -

OMSA takes precedence. OMSA sets the "Host Name String" every time
it starts up. Given above, even if "Host Name String" is set using
the iDRAC6 Configuration Utility, it will be overwritten by OMSA
when it starts up.

With OMSA not installed -

The iDRAC6 Configuration Utility can be used to configure the "Host
Name String".

* Accessing remote floppy disks and CD-ROMs from (VMWare) VMs

Accessing remote floppy disks and CD-ROMs from (VMWare) VMs is not
supported.

Only devices directly connected to an ESX server or a floppy or CD-ROM
ISO image present in the ESX Service Console can be made accessible to
the VM. Avoid this issue by creating an image of the floppy or CD-ROM
and copying it to the Service Console.

* Using the VMCLI tool from within a system running Windows Vista

To use VMCLI from within a system running Windows Vista -

The user has to start up the 'cmd' with 'Run as Administrator'.
(VMCLI requires that the user has 'administrator' privileges
when it is used.)

Note: User can log in as a non-admin user, but when using VMCLI,
the user has to start 'cmd' with 'Run as Administrator' privilege
thereby giving them admin privileges to enable using VMCLI.

- * Uploading images from multiple management systems to the virtual flash at the same time has to be avoided in order to prevent image corruption.
- * The name of the firmware image file for iDRAC6 is firmimg.d6
- * If the network cable to iDRAC6 is disconnected and then connected again, iDRAC6 will not negotiate a new IP address until the current lease expires.
- * Remote Racadm and VMCLI utilities are not supported with IPv6 in this release.
- * If iDRAC6 firmware update is interrupted for any reason, a wait of up to 30 minutes may be required before another firmware update operation is again allowed.
- * The Diagnostic tab on the GUI page is not operational if iDRAC6 Enterprise card is not installed.
- * Enabling Virtual Flash from iDRAC6 Configuration Utility will not take effect if the SD card is not formatted. Format the SD card from iDRAC6 GUI or using "racadm vmkey reset" command before enabling it.
- * In SM-CLP start or stop on the target /system1/ sp1/adsvc1 displays an error “*.* yyerror: syntax error, unexpected ZTOK_PARAMVALUE, expecting XTOK_VALUE or XTOK_VALUEARRAY or XTOK_VALUEREERENCE” and hangs the telnet/ssh session. It recovers only when the session times out or is restarted. This target is not supported with iDRAC6 firmware version 1.10.
- * You must close an open POST boot capture log video before you play another one. You cannot play two logs simultaneously.
- * The status for System Board Riser1 Pres and System Board Riser2 Pres sensors is reported incorrectly as unknown instead of good on R710 and R610 servers.
- * VMDeploy script, and vmdeploy.sh, does not work correctly on all supported Linux versions. To fix the issue, modify the following lines in vmdeploy.sh using a Linux editor like vi:
 - Line 198: Replace


```
if [ "$(grep \"RAW RSP (0 bytes)\" ipmitool_log`"
!= "RAW RSP (0 bytes)" ]
```
 - with


```
grep "RAW RSP (0 bytes)" ipmitool_log
  if [ "$?" != 0 ]
```
 - Line 230: Replace


```
if [ "$(grep \"not supported\" ipmitool_log`" != "not supported" ]
```

with

```
grep "not supported" ipmitool_log  
if [ "$?" != 0 ]
```

*On SLES 64 bit operating systems, if you try to attach an ISO file through Virtual Media Command Line Interface (VMCLI), an error message is displayed "Unable to connect to the server".

1. Get the installed libssl.so version by executing the following command:

```
#ldd /usr/bin/openssl
```

Output:

```
...  
libssl.so.0.9.8 => /usr/lib/libssl.so.0.9.8
```

```
...
```

2. Create new symbolic link by executing the following command:

```
#ln -s /usr/lib/libssl.so.0.9.8 /usr/lib/libssl.so.0.9.7
```

NOTE: Specify the path /usr/lib/libssl.so.0.9.8 in the command as displayed in step 1.

3. Execute the VMCLI command.

4. Once you complete the execution, remove the symbolic link by executing the following command:

```
#rm /usr/lib/libssl.so.0.9.7
```

* Two Factor Authentication(TFA) and Single Sign On(SSO) features are not supported on Firefox browser".

*The Smart Card based Two Factor Authentication (TFA) and the Single Sign-On (SSO) features are not supported if the Active Directory is configured for Extended Schema.

*Operating system information may not be displayed in the iDRAC6 GUI "System Summary" page if Dell OpenManage Server Administrator is not installed.

*To attach a .iso file using VMCLI, ensure that there is no blank spaces in the .iso filename.

*To install a 32-bit Firefox browser on SUSE Linux Enterprise Server 11 operating systems, ensure that you use a 32-bit media.

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KNOWN ISSUES FOR DOCUMENTATION  
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```

This section provides additional information about known issues with the iDRAC6 Firmware version 1.1 User's Guide.

None

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