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DELL(TM) REMOTE ACCESS CONTROLLER (DRAC) 5

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This document contains updated information about the Dell Remote Access Controller (DRAC) 5.

For more information about DRAC 5, including installation and configuration information, see the "Dell Remote Access Controller 5 User's Guide" and the "Dell OpenManage(TM) Server Administrator User's Guide." These documents are located on your Product Documentation CD.

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CRITICALITY

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3 - Optional

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MINIMUM REQUIREMENTS

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The following subsections list operating systems that are compatible with the DRAC 5.

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SUPPORTED SYSTEMS

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DRAC 5 is supported on the following Dell PowerEdge(TM) systems:

- * Dell PowerEdge 1900, 1950, 2900, 2950, 2970, and 6950.

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SUPPORTED MANAGED SERVER OPERATING SYSTEMS

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The DRAC 5 is supported by the following operating systems:

- * Microsoft Windows(R) 2000 Server family

The Windows 2000 Server family includes

- Windows 2000 Advanced Server(TM) with Service Pack 4 (SP4).
- Windows 2000 Server with SP4.
- Windows 2000 Professional with SP4.

NOTE: Windows 2000 Professional with SP4 support is limited to managed console (web-based interface) and Management Station software (remote racadm CLI).

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

The Windows Server 2003 family includes

- Windows Server 2003 R2 (Enterprise and Standard Editions) with SP2 (32-bit).
- Windows Server 2003 (Web Edition) with SP2 (32-bit).
- Windows Server 2003 R2 Standard and Enterprise Edition with SP2 (32-bit x86_64).
- Windows Server 2003 Standard and Enterprise Editions x64 Editions with SP1.
- Windows Small Business Server 2003 Standard and Premium Editions.
- Windows Small Business Server 2003 with SP1.
- Windows Storage Server 2003 R2 Express and Workgroup x64 Editions (x86_64).

- * Windows XP Professional SP2.

- * Windows Vista(TM).

NOTE: Windows XP Professional SP2 and Windows Vista support is limited to managed console (web-based interface) and Management Station software (remote racadm CLI).

- * Red Hat(R) Enterprise Linux WS, ES, and AS (version 4) (x86 and x86_64).

- * Red Hat(R) Enterprise Linux 5 (x86 and x86_64).

NOTE: When using DRAC 5 with Red Hat Enterprise Linux (version 5) systems, support is limited to a Managed Node software only (includes local Racadm support but not remote Racadm and Racvmcli support); Management Station software (includes remote Racadm and Racvmcli support) and Managed console (web-based interface) are not supported.

* SUSE(R) Linux Enterprise Server 9 with Update 3 (x86_64).

* SUSE Linux Enterprise Server 10 (x86_64) Gold.

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SUPPORTED WEB BROWSERS

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* Microsoft Internet Explorer 6.0 (32-bit) with SP1 for Windows 2000 Server family.

* Microsoft Internet Explorer 6.0 (32-bit) with SP2 for Windows XP and Windows Server 2003 family.

* Microsoft Internet Explorer 7.0 for Windows Vista, Windows XP, and Windows Server 2003 family.

* Mozilla Firefox 1.5 (32-bit) on SUSE Linux (version 10) only.

* Mozilla Firefox 2.0 (32-bit).

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FIRMWARE VERSIONS

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* RAC Firmware Version: 1.20

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DISABLE LOCAL VIDEO

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* Baseboard Management Controller(BMC) firmware version 1.29 or higher

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RELEASE HIGHLIGHTS (FIRMWARE VERSION 1.20)

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* Standard Schema with Microsoft Active Directory(R) -- Provides standard Active Directory objects for use in managing DRAC 5 users and user privileges.

* Single Forest, Multiple Tree Support for Active Directory -- Provides support for user authentication across multiple trees in a single forest in Microsoft Active Directory.

* Disabling Local Video -- Provides the capability to turn on or off the video output to a server's local monitor, which is useful when managing remote systems.

* Drive Letter Assignment in Virtual Media -- Provides new functionality for Virtual Floppy drives. A Virtual Floppy drive will be seen as A: or B: by Windows operating systems and will be enumerated as a floppy drive rather than a removable disk drive that takes drive letter C: or higher.

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HOW TO CONFIGURE THE RAC CARD FOR FLASH RECOVER MODE

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1. Connect the RAC card to a TFTP server using a network cable to the system network or a cross-over cable to the host system.
2. Point the TFTP server root path to the folder containing the firmware update image, "firmimg.d5".
3. Using the BIOS setup screen configure the system serial mux such that the RAC card is connected internally to the external DB-9 serial port.
4. Install a NULL modem cable between the system DB-9 serial port and a client machine.
5. On the client machine open a terminal communications program like "HyperTerminal" or "Mini-Comm" using, [1] baudrate=115200, [2] bits=8, [3] parity=none, [4] flow control=none
6. Enter a carriage return and a "RAC Recover Mode" prompt should appear. If not then you may not be in recover mode, or recheck the serial mux and terminal settings.
7. View recover network settings
RAC Recover> recover getniccfg
8. If needed set static network settings (DHCP is NOT supported in recover)
RAC Recover> recover setniccfg <IPaddress> <Subnetmask> <Gateway>
9. Verify the settings and connection by pinging the TFTP server.
RAC Recover> recover ping <TFTP server IP>
(If ping does not work you may need to enter recover racreset first).
10. Download and update flash part.
RAC Recover> recover fwupdate -g -a <TFTP server IP>
11. RAC card will now update and reboot on completion.

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KNOWN ISSUES FOR DRAC 5

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* When viewing the Web user interface on a Dell PowerEdge 1900 system that is configured with one NIC, the NIC Configuration page displays two NICs (NIC1 and NIC2). This behavior is normal. The PowerEdge 1900 system - and other PowerEdge systems that are configured with a single LOM - can be configured with NIC teaming. Shared and Teamed modes work independently on these systems.

* The allowed RACADM Serial Escape Key (cfgSerialConsoleQuitKey) values are as follows:

- (a) ^ followed by any alphabetic (a-z, A-z)
- (b) ^ followed by the listed special characters: [] \ ^ _

* The supported Console Redirection video refresh rates are as follows:

- 720x400 [70 Hz]
- 640X480 [60, 72, 75, 85 Hz]
- 800X600 [60, 70, 72, 75, 85 Hz]
- 1024X768 [60, 70, 72, 75, 85 Hz]
- 1280X1024 [60 Hz]

Certain configurations of refresh rates may not work for Linux OS on Managed Node. This may happen because Linux OSs allow a range of refresh rates instead of a fixed refresh rate.

* When you update your DRAC 5 firmware, the update resets the DRAC 5, detaches USB devices from the BUS, and disconnects remote Virtual Media. Before you perform a firmware update or RAC reset, it is recommended that you perform the following procedures:

- Ensure that Virtual Flash is unmounted or not in use by another user.
- Disconnect and unmount Virtual Media.

* When you access the DRAC 5 GUI through the Web browser, you are required to add the DRAC 5 IP address to the list of trusted domains if the IP address is missing from the list. When completed, click Refresh or relaunch the Web browser to reestablish a connection to the DRAC 5 GUI.

* The DRAC 5 GUI is not supported on 64-bit Web browsers. If you open a 64-bit Browser, access the "Console Redirection" page, and attempt to install the plug-in, the installation procedure fails. If this error was not acknowledged and you repeat this procedure, the "Console Redirection" page loads, even though the plug-in installation fails during your first attempt. This issue occurs because the Web browser stores the plug-in information in the profile directory even though the plug-in installation procedure failed. To fix this issue, install and run a supported 32-bit Web browser and log in to the DRAC 5.

* When viewing the Console Redirection online help, the second note under Console Redirection should state as follows:

"The recommended display resolution on the management station (or client) is at least 1280 x 1024 pixels at 60 Hz with 128 colors. You cannot view the console in Full Screen Mode if your monitor resolution is less than this minimum."

* If you are running Console Redirection on a Red Hat Enterprise Linux (version 4) client with a Simplified Chinese GUI, the viewer menu and title may appear in random characters. This issue is caused by an incorrect encoding in the Red Hat Enterprise Linux (version 4) Simplified Chinese operating system. To fix this issue, access and modify the current encoding settings by performing the following steps:

1. Open a command terminal.
2. Type "locale" and press <Enter>. The following output appears.

```
LANG=zh_CN.UTF-8
LC_CTYPE="zh_CN.UTF-8"
LC_NUMERIC="zh_CN.UTF-8"
LC_TIME="zh_CN.UTF-8"
LC_COLLATE="zh_CN.UTF-8"
LC_MONETARY="zh_CN.UTF-8"
LC_MESSAGES="zh_CN.UTF-8"
LC_PAPER="zh_CN.UTF-8"
LC_NAME="zh_CN.UTF-8"
LC_ADDRESS="zh_CN.UTF-8"
LC_TELEPHONE="zh_CN.UTF-8"
LC_MEASUREMENT="zh_CN.UTF-8"
LC_IDENTIFICATION="zh_CN.UTF-8"
LC_ALL=
```

3. If the values include "zh_CN.UTF-8", no changes are required.

If the values do not include "zh_CN.UTF-8", go to step 4.

4. Navigate to the /etc/sysconfig/i18n file.

5. In the file, apply the following changes:

Current entry:

```
LANG="zh_CN.GB18030"
```

```
SUPPORTED="zh_CN.GB18030:zh_CN.GB2312:zh_CN:zh"
```

Updated entry:

```
LANG="zh_CN.UTF-8"
```

```
SUPPORTED="zh_CN.UTF-8:zh_CN.GB18030:zh_CN.GB2312:zh_CN:zh"
```

6. Log out and then login to the operating system.

7. Relaunch the DRAC 5.

When you switch from any other language to the Simplified Chinese language, ensure that this fix is still valid. If not, repeat this procedure. (53205)

- * The Linux operating system mouse settings are used to control the mouse arrow in the DRAC 5 Console Redirection screen. If the user or the Linux operating system (Red Hat or Novell) changes the default mouse settings, you will see the mouse synchronization problem.
- * Closing the DRAC 5 GUI from a Microsoft Internet Explorer using the close button ("x") on the top right corner of the browser may generate an application error. To fix this issue, download the latest Cumulative Security Update for Internet Explorer from the Microsoft Support website located at support.microsoft.com. See Microsoft Knowledge Base article KB835193 for more information.
- * When using Microsoft Active Directory credentials to log in to the DRAC 5 GUI, the GUI supports passwords with a maximum length of 256 characters. However, Active Directory supports passwords with a maximum length of 127 characters. For more information about Active Directory password policies, see the Microsoft Technet website at technet.microsoft.com.
- * If you access DRAC 5 GUI using Internet Explorer and click "Save As" in one of the GUI pages, the browser may open the file within the Web browser and avoid prompting you to save the file to your system's hard drive. To resolve this issue, download the Cumulative Security Update for Internet Explorer located on the Microsoft Support website at support.microsoft.com.

* When you input a single character, the keyboard driver expects make (press) and break (release) key input within 200 milliseconds. If the keyboard driver does not receive break key input within this time frame, the driver assumes that the user is pressing and holding down the key. As a result, the driver simulates multiple keystrokes.

To work around this issue, perform one of the following procedures:

- Disable the keyboard character repeat feature.
- Modify the server settings by extending the repeat delay and minimizing the repeat rate.

To work-around the multiple keystrokes, the user can disable the keyboard character repeat feature or change the repeat delay to longer and the repeat rate to slower on the server side.

* You might encounter virtual drive issues when copying large files to the DRAC 5 virtual flash. To avoid these issues, you should not attempt to copy large files from the local drive to the DRAC 5 virtual flash on systems running Windows or Linux operating systems. If you need to copy large files, you can create an image of the files to be copied and then use the GUI flash update to update the virtual flash.

If you receive an error message from the host operating system that the copy failed when copying large files to the DRAC 5 virtual flash from a local drive, then your DRAC 5 virtual devices (DVD/CD ROM, floppy, and flash) will be offline. In order to get your DRAC 5 virtual devices back online, you can detach and re-attach the virtual devices from the DRAC 5 GUI or CLI, or you can reboot the server. (67123)

* When accessing the virtual flash feature via the DRAC 5 GUI to either configure or use it, you will notice a "Virtual Flash Enabled" check box on the configuration page that is used to enable/disable the Virtual Flash feature. However, when you proceed to the "Virtual Flash" page the status of this feature is represented by the "Virtual Flash Attached" attribute. If "Virtual Flash Attached" is set to "Yes", the Virtual Flash feature is enabled (checked) via the configuration page. If set to "No", the Virtual Flash feature is disabled (unchecked) via the configuration page. (68818)

* For the Virtual Flash feature to be functional and to see the Virtual Flash as a drive on the server, the Virtual Media must be attached and the Virtual Flash must be enabled. To confirm that these features have been attached and enabled, go to the Media configuration page of the DRAC 5 GUI and make sure that the "Attach Virtual Media" check box and the "Virtual Flash Enabled" check box are checked. (68818)

* In Windows Vista if the Internet Explorer Protected Mode is "ON" then you will not be able to use any of the drives available on the Virtual Media page in the GUI to establish a Virtual Media session. This is due to additional security by the browser to prevent unwanted execution of code via the browser using elevated privileges. For more information, see the Microsoft document at the following web site:

<http://download.microsoft.com/download/c/2/9/c2935f83-1a10-4e4a-a137-c1db829637f5/WindowsVistaSecurityWP.doc>

(109414)

- * When trying to access the Web User Interface after updating the DRAC5 Firmware from a previous version to the latest version, you may encounter an error: "The XML page cannot be displayed". If this occurs, please clear the browser cache and re-launch the browser to access the Web User Interface to fix this issue.
- * When running the racadm command "racadm getconfig -f <filename>" locally or remotely, the file will not get the values for the groups cfgIpmiPef and cfgStandardSchema.
- * If there is a delay in loading or installing any plugins on the DRAC 5 GUI using any browser, then install the following Certificate Revocation List within the browser:

<http://csc3-2004-crl.verisign.com/CSC3-2004.crl>
- * If a non-root user attempts to execute Remote CLI (racadm) commands on a Linux Operating System with Racadm utility already installed, then an error: "Command not found" is displayed. This is because Racadm utility is visible only to users with root privileges.
(113871)
- * The Browsers <Ctrl><N> functionality to open a new browser instance on the DRAC OOB GUI is not supported. When using Internet Explorer if you open multiple instances of the DRAC OOB GUI on the same client (does not need to be using <Ctrl><N>), a log out from one of the session will result in log out of all the other GUI sessions. On Linux operating system's using Firefox browser if you open multiple instances of the DRAC OOB GUI on the same client (does not need to be using <Ctrl><N>), a log out from one of the session will result in log out of all the other GUI sessions. This is because the browsers shares the same cookies of the other browser instances.
(117539)
- * The DRAC firmware version as displayed on OMSA GUI firmware page is reported as 1.14 instead of 1.20.
- * The DRAC5 OOB GUI Alert Management on Platform Event: "Automatic System Recovery" does not support the various Shutdown Actions: Reboot System, Power Cycle System, Power Off System. The Help page for this does not mention this and explains all the actions in detail.
- * The DRAC5 OOB GUI intermittently may display "undefined" strings in the tool bar when using the Firefox browser. This happens if the page loads prior to the strings being loaded by the browser side transformation engine. To avoid this, log out and log back in.
(118618)
- * If Hyperterminal version 6.3 is being used on Windows 2003 SP2 as a client to access serial port for serial communication, Hyperterminal

may fail. (116875)

* Mozilla Firefox version 2.0.0.2 is not supported in this release. If you get a blank page when accessing DRAC 5 from the Firefox 2.0.0.2 browser, type the following full path to get to the DRAC 5 login page:

https://drac_ip/cgi-bin/webcgi/login

* If the DRAC is configured to register the DRAC Host Name with DNS using DHCP (cfgDNSRegisterRac object value to 0 and cfgNicUseDhcp object value to 1), this means that the DHCP must be configured to have the "Dynamically update DNS A and PTR records for DHCP clients that do not request updates" option enabled and a minimum of Option 15 (DNS Domain Name) added to the specific DHCP scope.

Be aware of the following behaviors when configuring the DRAC:

- If the DRAC is setup with "cfgDNSRegisterRac=0" and "cfgNicUseDhcp=1" with NO scope options added and the "Dynamically update DNS A and PTR records for DHCP clients that do not request updates" NOT selected, the DHCP database will properly show the host name of the DRAC but the DDNS functionality will NOT work.
- If the DRAC is setup with "cfgDNSRegisterRac=0" and "cfgNicUseDhcp=1" with NO scope options added and "Dynamically update DNS A and PTR records for DHCP clients that do not request updates" IS selected, the DHCP database will properly show the host name of the DRAC but the DDNS functionality will NOT work.
- If the DRAC is setup with "cfgDNSRegisterRac=1" and "cfgNicUseDhcp=1" with NO scope options added and "Dynamically update DNS A and PTR records for DHCP clients that do not request updates" NOT selected, the DHCP database will NOT properly show the host name of the DRAC but the DDNS functionality will work.
- If the DRAC is setup with "cfgDNSRegisterRac=0" and "cfgNicUseDhcp=1" with scope option 15 added and "Dynamically update DNS A and PTR records for DHCP clients that do not request updates" NOT selected, the DHCP database will properly show the host name of the DRAC but the DDNS functionality will NOT work.
- If the DRAC is setup with "cfgDNSRegisterRac=0" and "cfgNicUseDhcp=1" with scope option 15 added and "Dynamically update DNS A and PTR records for DHCP clients that do not request updates" IS selected, the DHCP database will properly show the host name of the DRAC and the DDNS functionality will work.

KNOWN ISSUES FOR DRAC 5 WITH FIRMWARE UPDATE
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* Network traffic may cause the firmware update to time-out. If the firmware download procedure exceeds 15 minutes, the DRAC 5 will time-out, cancel the firmware download procedure, reset, and then return to normal operation.. To work around this issue, transfer the

firmware flash image to a local drive on the server. Using Console Redirection, connect to the remote system and install the firmware locally using local racadm.

- * After updating firmware update to 1.20 from any previous release it would take about 5 minutes before the DRAC is fully functional.

KNOWN ISSUES FOR DRAC 5 WITH DISABLING LOCAL VIDEO
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- * If the Video is turned OFF locally on the server the LCD displays a message indicating video OFF. However if the BMC is reset or there is a BMC firmware update , the LCD message will not be displayed. The LCD "Video OFF" message will only be displayed if the Video is turned ON and turned OFF again.

KNOWN ISSUES FOR DRAC 5 WITH VIRTUAL MEDIA
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- * Virtual Media may not function properly on Windows operating system clients that are configured with Internet Explorer Enhanced Security. To resolve this issue, see your Microsoft operating system documentation or contact your administrator.
- * If you use Virtual Media and the Windows 2000 operating system CD to install Windows 2000 with Service Pack 4, your system may momentarily lose its connection to the CD drive during the installation procedure, and the operating system may fail to install properly. To fix this issue, download "usbstor.sys" from the Microsoft Support website at support.microsoft.com and run the program only on your systems that experience this issue. See Microsoft Knowledge Base article KB823086 for more information.
- * If Virtual Flash is enabled and does not contain a valid image (for example the virtual flash contains a corrupted or random image), you may not be able to install Windows 2000/2003 locally or remotely. To fix this issue, install a valid image on Virtual Flash or disable Virtual Flash if it will not be used during the installation procedure.
- * Installing network and chipset drivers on the server causes the Virtual Media connection to drop when configured in the Shared-NIC mode. Installing the network or chipset drivers causes the LOM to reset, which in turn causes network packets to time-out and the Virtual Media connection to time-out and drop. To work around this issue, copy the drivers from your virtual drive to the server's local hard drive. To prevent a dropped Virtual Media connection from interfering with your driver installation procedure, start the driver installation directly from the server.
- * If you are installing the Windows operating System using the "Dell PowerEdge Installation and Server Management" CD and a slow network connection, the installation procedure may require an extended amount of time to access the DRAC 5 GUI due to network latency. While the installation window does not indicate the installation

progress, the installation procedure is in progress.

* When viewing the Virtual Media Configuration online help, note the following corrections in the Attributes section:

- "Maximum Number of Sessions" needs to state:

"Maximum Number of Sessions Displays the maximum number of simultaneously active Virtual Media sessions."

- "Number of Active Sessions" needs to state:

"Displays the current number of active Virtual Media sessions"

- "Virtual Media Port Number" needs to state:

"Display and set the port number (in decimal) for Virtual Media connection. Valid numbers are unused DRAC 5 port numbers between 0 and 65535. Default=3668."

- "Virtual Media SSL Port Number" needs to state:

"Display and set the Secure Socket Layer communications port number (in decimal). Valid numbers are unused DRAC 5 port numbers between 0 and 65535. Default=3669."

* You may not be able to format the Virtual Flash with the Linux GUI. You can format Virtual Flash with the fdisk and mkfs commands.

FREQUENTLY ASKED QUESTIONS ON VIRTUAL MEDIA
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Q: I am viewing the contents of a floppy drive or USB memory key. If I try to establish a Virtual Media connection using the same drive, I receive a connection failure message and am asked to retry. Why?

A: Simultaneous access to Virtual Floppy drives is not allowed. Close the application used to view the drive contents before you attempt to virtualize the drive.

Q: How do I configure my virtual device as a bootable device?

A: On the managed system, access the BIOS Setup and navigate to the boot menu. Locate the virtual CD, Virtual Floppy, or Virtual Flash and change the device boot order as needed. For example, to boot from a CD drive, configure the CD drive as the first drive in the boot order.

Q: What types of media can I boot from?

A: The DRAC 5 allows you to boot from the following bootable media:

- CDROM/DVD Data media
- ISO9660 image
- 1.44 Floppy disk or floppy image
- DRAC 5 embedded virtual flash
- A USB key that is recognized by the OS as a removable disk
- A USB key image

Q: How can I make my USB key bootable?

A: Perform one of the following procedures:

1) Format your USB key with Windows 98 DOS using a Windows 98 startup disk.

A) Boot your system from a Windows 98 startup disk.

B) Copy the system files from the startup disk to your USB key.

For example, from a DOS prompt, type:

```
sys a: x: /s
```

where "x" is the USB key that you want to make bootable.

2) Use the Dell boot utility. This utility is only compatible with Dell-branded USB keys. To download the utility, open a supported Web browser, navigate to the Dell Support website located at support.dell.com, and search for "R122672.exe."

Q: Do I need Administrator privileges to install the ActiveX plug-in?

A: You must have Administrator or Power User privileges on Windows systems to install the Virtual Media plug-in.

Q: What privileges do I need to install and use the Virtual Media plug-in on a Red Hat Linux Management station?

A: You must have Write privileges on the browsers directory tree to successfully install the Virtual Media plug-in.

Q: I cannot locate my Virtual Floppy device on a system running Red Hat Enterprise Linux or the SUSE Linux operating System. My Virtual Media is attached and I am connected to my remote floppy.

A: Some Linux versions do not automount the Virtual Floppy and the Virtual CDROM in a similar manner. In order to mount the Virtual Floppy, locate the device node that Linux assigns to the Virtual Floppy. Perform the following steps to correctly find and mount the Virtual Floppy:

1) Open a Linux command prompt and run the following command:

```
grep "Virtual Floppy" /var/log/messages
```

2) Locate the last entry to that message and note the time.

3) At the Linux prompt, run the following command:

```
grep "hh:mm:ss" /var/log/messages
```

where hh:mm:ss is the time stamp of the message found in step 1.

4) In step 3, read the result of the grep command and locate the device name that is given to the "Dell Virtual Floppy"

5) Ensure that you are attached and connected to the Virtual a Floppy.

6) At the Linux prompt, run the following command:

```
mount /dev/sdx /mnt/floppy
```

where "/dev/sdx" is the device name found in step 4 and "/mnt/floppy" is the mount point.

Q: What file system types are supported on my Virtual Floppy or Virtual Flash?

A: Your Virtual Floppy or Virtual Flash supports FAT16 or FAT32 file systems.

Q: When I performed a firmware update remotely using the DRAC 5 GUI, my virtual drives at the server were removed. Why?

A: Firmware updates cause the DRAC 5 to reset, drop the remote connection, and unmount the virtual drives. The drives will reappear when the DRAC 5 reset is complete.

Q: When enabling or disabling the Virtual Flash, I noticed that all my virtual drives disappeared and then reappeared. Why?

A: Disabling or enabling the Virtual Flash causes a USB reset and causes all virtual drives to detach from and then re-attach to the USB bus.

Q: Sometimes I notice my Virtual Media client connection drop. Why?

A: When a network time-out occurs, the DRAC 5 firmware drops the connection, disconnecting the link between the server and the Virtual Drive. To reconnect to the Virtual Drive, use the Virtual Media feature.

KNOWN ISSUES FOR DOCUMENTATION
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This section provides additional information about known issues with the DRAC 5 Firmware version 1.20 User's Guide.

* On page 56, the remote RACADM commands listed for the "Enabling the Serial/Telnet/SSh Console Remotely" procedure are incorrect. The correct remote RACADM commands are as follows:

```
racadm -u <username> -p <password> -r <DRAC 5 IP address> config -g  
cfgSerial -o cfgSerialConsoleEnable 1
```

```
racadm -u <username> -p <password> -r <DRAC 5 IP address> config -g  
cfgSerial -o cfgSerialTelnetEnable 1
```

```
racadm -u <username> -p <password> -r <DRAC 5 IP address> config -g  
cfgSerial -o cfgSerialSshEnable 1
```

* On page 263, the default value listed for the `cfgFloppyEmulation` property is incorrect. The correct default value is 0.

* In Table 1-5 on pages 21-22, some of the supported operating systems listed in the table are incorrect:

- Red Hat Enterprise Linux WS, ES, and AS (version 3) (x86 and x86_64) is not supported.
- Red Hat Enterprise Linux WS, ES, and AS (version 4) (ia32 and x86_64) and Red Hat Enterprise Linux WS, ES, and AS (version 4) (x86 and x86_64) are the same operating systems. The correct listing should be Red Hat Enterprise Linux WS, ES, and AS (version 4) (x86 and x86_64).
- SUSE Linux Enterprise Server 9 with Update 2 (x86_64) Gold is not supported. Only SUSE Linux Enterprise Server 9 with Update 3 (x86_64) Gold is supported.
- Windows Server 2003 R2 (Web Edition) with SP2 (32-bit) is not supported. Only Windows Server 2003 (Web Edition) with SP2 (32-bit) is supported

* In Table 1-6 on pages 22, some of the browser's supported operating systems listed in the table are incomplete. Please refer to the Supported Web Browsers section of this readme for the latest browser support list.

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