

**Integrated Dell  
Remote Access  
Controller 7 (iDRAC7)  
Version 1.56.55 and  
Lifecycle Controller 2  
Remote Services  
Version 1.4.0  
Release Notes**



# Release Type and Definition

## Integrated Dell Remote Access Controller 7 (iDRAC7)

iDRAC7 is a systems management hardware and software solution that provides remote management capabilities, crashed system recovery, and power control functions for Dell PowerEdge systems.

## Lifecycle Controller 2 Remote Services (LC2-RS)

LC2-RS provides advanced embedded systems management and is delivered as part of iDRAC7. LC2-RS enables remote systems management in a one-to-many method. Remote Services uses WS-Management (WS-MAN) protocol based Web services interface to remotely provision and manage the servers.

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### Version

iDRAC7 1.56.55  
LC2 1.4.0

### Release Date

March 2014

### Previous Version

iDRAC7 1.55.55  
LC2 1.3.0

### Importance

URGENT: Dell highly recommends applying this update as soon as possible. The update contains changes to improve the reliability and availability of your Dell system.

## Platform(s) Affected

iDRAC7 and LC2-RS is supported on the following systems:

- PowerEdge M520
- PowerEdge M820
- PowerEdge R320
- PowerEdge T620
- PowerEdge M420
- PowerEdge R820
- PowerEdge T320
- PowerEdge R620
- PowerEdge M620
- PowerEdge R720
- PowerEdge R720xd
- PowerEdge R520
- PowerEdge R420
- PowerEdge T420

# What is Supported?

## Supported Managed Server Operating Systems for iDRAC7

The following operating systems support iDRAC7:

- Windows Server 2008 SP2 (32-bit)
- Windows Server 2008 SP2 (64-bit)
- Windows Server 2008 SP2 R2 (64-bit)
- Microsoft Server 2012 Essentials
- Microsoft Server 2012 R2
- Red Hat Enterprise Linux (RHEL) version 5.9
- Red Hat Enterprise Linux (RHEL) version 6.4
- Red Hat Enterprise Linux (RHEL) version 6.5
- Red Hat Enterprise Virtualization (RHEV) Hypervisor 5.9
- Red Hat Enterprise Virtualization (RHEV) Hypervisor 6.4
- Red Hat Enterprise Virtualization (RHEV) Hypervisor 6.5
- SUSE Linux Enterprise Server (SLES) version 10 SP4 (64-bit)
- SUSE Linux Enterprise Server (SLES) version 11 SP2
- VMware vSphere version 5.0 U2
- VMware vSphere version 5.1 U2
- VMware vSphere version 5.5
- Citrix XenServer version 6.1
- Citrix XenServer version 6.2

## Supported Web Browsers for iDRAC7

- Microsoft Internet Explorer 8
- Microsoft Internet Explorer 9
- Microsoft Internet Explorer 10
- Microsoft Internet Explorer 11
- Safari version 5.2
- Safari version 6.0
- Mozilla Firefox version 22
- Mozilla Firefox version 23
- Google Chrome version 27
- Google Chrome version 28

# What's New

## iDRAC7

- Support for the following:
  - Emulex cards:
    - Emulex OneConnect OCm14104-UX-D 4-port 10GbE rNDC CNA
    - Emulex OneConnect OCm14102-U2-D 2-port 10GbE bNDC CNA
    - Emulex OneConnect OCe14102-UX-D 2-port PCIe 10GbE CNA
    - Emulex OneConnect OCm14102-U3-D 2-port 10GbE Mezz CNA
  - NVMe SSD
  - NVIDIA GRID K2 Active GPU card
  - New memory.
  - Internet Explorer Version 11
  - Red Hat Enterprise Linux version 6.5 and ESX 5.1 U2
- New system ID for PowerEdge M820 in Dell PowerEdge VRTX chassis
- Defect fixes - See the iDRAC7 - Fixes section for details.

## iDRAC7 – Fixes

- Fix for issues that cause iDRAC7 sluggish responsiveness after a prolonged period of time (~45-100 days, depending on the usage). In some cases, if the iDRAC is not reset, the iDRAC may become unresponsive and requires a server AC Power on reset. This issue exists on firmware releases 1.50.50 and later on all 12th generation PowerEdge servers.
- On non-blade servers, if iDRAC is configured with static IP and the email alert feature is being used, then after iDRAC reset, the iDRAC DNS name in the email alert changes to the default value:iDRAC-[Service Tag]. The Email Alert component is now modified to re-read the networking information before sending the email alerts.
- iDRAC7 network connection drops after sometime because of the memory leak caused by SNMP walk on Processor Device Table of the iDRAC7 MIB.
- If the system has iDRAC Express license, then you cannot make changes in the Alert Settings page with iDRAC7 Firmware 1.50.50 or later. This issue is now fixed in iDRAC7 firmware 1.56.55 and you can make changes in the Alert Settings page.
- After updating the iDRAC7 firmware version to 1.5x.5x, the iDRAC does not pass the correct gateway address. When VLAN is enabled and iDRAC is on a different subnet, cannot ping iDRAC. Modify the script to apply the gateway setting to the correct VLAN enabled network interface.
- Implements Flex Address on M520 with Broadcom LOM. Discovering the NC-SI channel process is not completed properly. Modify the NC-SI driver discover sequence to make sure that iDRAC detects all the channels.
- iDRAC generates redundant SEL log stating "Persistent correctable memory errors at DIMM location(s) after BIOS generates single or multi-bit DIMM error SEL log on R220. This issue is fixed and only BIOS generated "Correctable memory error rate for DIMM <Nos>" SEL logs gets generated.
- In a server with Linux and Windows operating system, after running the iDRAC DUP, the application name is displayed as "12G iDRAC7 BASE V1.00" instead of "iDRAC7".
- When you use the ConnectRFSISOImage WSMAN command to attach an ISO image through NFS share type, the command does not work. However, it works for CIFS share type. This issue is fixed and it supports both NFS and CIFS share types.
- When Virtual Console port number is changed using RACADM, a few unrelated text may appear in the same console.
- Fix for iDRAC not ready.

## iDRAC7 - Important Notes

- After an iDRAC7 firmware update, a few of the iDRAC7 Web interface panels or navigation menu items may contain incorrect or invalid entries. To resolve this, clear the browser cache(s) after updating the iDRAC7 firmware.
- License Requirements:
  - Software licensing has replaced hardware licensing. For more information, see, the *Dell License Manager User's Guide*.
  - Lifecycle Controller features such as Auto Discovery and vFlash are now licensed. Install the correct licenses for Lifecycle Controller Remote Services to work properly.
- Only if there is one or more network interface cards (NDC or LOM) present on the managed system, **Network Devices** appears under **Overview** -> **Hardware** section in the iDRAC7 Web interface.
- When using iDRAC7 Web interface in Firefox 3.6 if the SD card is removed while partition creation is in-progress, "The operation has been completed successfully" message is displayed.
- For the Virtual Console and Virtual Media to function properly, iDRAC7 Web URL must be added to the Local Intranet site list and the security level for the Local Intranet zone should be set to Medium-Low. In addition, if Virtual Console and Virtual Media are configured to use Java plug-in, then disable the **Enhanced Security Mode** in Internet Explorer. If this is not possible, then in iDRAC7, configure Virtual Console to use the ActiveX plug-in.
- If the instant messenger is launched in the Virtual Console viewer with ActiveX native plug-in and another application is started (example Notepad, WordPad, and so on) without minimizing the Virtual Console, the instant messenger box also pops-up on other applications. This does not happen with Java plug-in.
- When a system is in POST, it is not possible to attach a vFlash partition as the first boot device.
- Virtual Console Viewer from iDRAC7 Web interface terminates when the managed system is restarted.
- A pop-up message is not displayed to confirm if test emails are successfully sent or not.
- For iDRAC7 Enterprise, when the Virtual Console is disabled and Virtual Media is disabled and/or detached, the console port (default: 5900) remains open. For iDRAC7 Express (no Virtual Console or Virtual Media) the console port is open.
- If auto-negotiation is enabled while setting iDRAC7 network, 1 Gbps is not supported and you cannot manually select it.
- A USB device mounted through Virtual Media in floppy emulation mode for a Linux operating system shows as a removable volume.
- During system power operations, if the video mode changes, the message "Out of range" may appear for a short while on the Virtual Console.
- When using the Virtual Console in native console mode with "Pass all keystrokes to server" disabled in Internet Explorer versions 8 and 9, if an F1/F2 prompt is encountered, pressing F1 displays the Virtual Console online help pop-up in addition to continuing with the system boot.
- When any of the storage enclosure components are removed, the corresponding details are not displayed. Only the name and status attributes are displayed.
- When certain RAID operations are requested using WS-MAN on non-RAID cards such as, the Dell SAS 6Gbs HBA or the Internal Tape Adapter, the operation succeeds, however the job fails with the error message "Unable to locate device in current configuration".
- If the iDRAC7 network is configured to use a shared LOM and the spanning tree is enabled on the LOM port, WS-MAN and remote service commands may time-out in the following scenarios:
  - At system reboot
  - When CSIOR is running
  - While entering SSM

The connectivity lost is variable. In typical cases, it is approximately:

- 40 seconds at system reboot and varies per NIC or link speed
- 20 seconds when CSIOR is running

– 40-60 seconds while entering SSM

The reason is that when spanning tree is enabled, the switch does not allow the link to re-establish the connection after a reset until it completes checking for network loops. Server reboots reset the NIC and disconnects the link.

**Note:** This does not occur while using dedicated NIC because server reboots do not affect the dedicated NIC.

- When logging in to iDRAC7 Web Interface using Internet Explorer 9 and IPV6 address, the connection may not succeed. To resolve this, make sure that in Internet Explorer -> **Tools** -> **Internet Options** -> **Connections** -> **LAN Settings**, the **Use automatic configuration script** option is cleared.
- On PowerEdge systems with cabled power supply units installed (that is, PSUs which do not provide PMBus support), power values may still be displayed in the iDRAC7 web and LCD interfaces. Due to lack of PMBus support in the PSUs, the power values displayed on the GUI pages, including the **Overview** -> **Hardware** -> **Front Panel** page, are not correct.
- Due to the independent nature of the alert processes (e-mail, SMTP, remote syslog), when changing the licenses that affect alert features (example, email alerts for Express or remote syslog for Enterprise) there is no guarantee of the timing of the features being activated or deactivated when the license changes.
- In the iDRAC Web interface, when the System Inventory page is accessed for the first time, it takes up to two minutes for the inventory data to be collected. After the data collection is complete, refresh the page to display the inventory data.
- Make sure to synchronize the iDRAC time with the management station's time to avoid certificate related issues. If the time is not synchronized, issues such as server certificate expiration may be seen. If this occurs, re-synchronize iDRAC time with the management station's time and reboot iDRAC.
- On a Linux system, after launching the Virtual Console, if you click on a menu item and it remains open, the Ctrl + Alt + L keystroke sent from the iDRAC to the host system does not lock the host system. The behavior is the same as using a local keyboard.
- The default time zone value is US Central Time. To make sure Single Sign-On (SSO) and Directory Service TFA (smart card) continue to work properly, the iDRAC time zone must match the time zone where iDRAC is located, assuming Active Directory server's time zone is already configured to match the Active Directory's location. For example, if Active Directory server is located at US Eastern time zone and iDRAC is located at US Pacific time zone, Active Directory server has to be configured as US Eastern time zone (this is Active Directory server configuration and is normally configured), and iDRAC must be configured as US Pacific time zone. For more information to configure the time zone, see the iDRAC7 User's Guide.
- If the management station is using MAC operating system, it takes more time to launch the Virtual Console due to the following DNS search issue:  
**<http://www.eigenspace.org/2011/07/fixing-osx-lion-dns-search-domains/>**
- For iDRAC7 1.30.30 or later versions, if the iDRAC is configured using the Import Configuration XML operation, "user password is changed" messages are logged in the Lifecycle Log. An LC Log entry is generated and the default settings are applied for all local user accounts that are not configured through the XML configuration file.
- The help page for the Export and Import of Server Profile feature does not provide the correct share name. See the Web Services Interface Guide available at [www.dell.com/support/manuals](http://www.dell.com/support/manuals) for the correct share name.
- Remote Sys Log settings take effect only if you do the following:
  - Enable remote syslog feature
  - Specify the server address and port number
  - Enable **Remote SysLog** option on the **Alerts** page
- When IVYBRIDGE CPU is installed on PowerEdge R720, R720xD, R620, T620, or M620 systems, the iDRAC7 firmware update from 1.45.45 to an earlier version is not allowed (example, from 1.45.45 to 1.40.40 or to 1.37.35, and so on).
- When creating a Virtual Media image from a folder, the output image file size is at least 512 MB.
- To launch Virtual Console using Java plug-in, only JavaWebStart versions 1.5, 1.6, and 1.7 from Sun (Oracle) is supported. Any other versions or any other installations are not supported.

- On a server running RHEL operating system, performing the following steps can create a **eth\*.bak** interface (where \* is the interface number). This is visible in the Network Manger interface. This interface can be safely ignored.
  1. After the operating system (RHEL) is running, enable OS to iDRAC Pass-through channel through the iDRAC Web interface.
  2. Disable OS to iDRAC Pass-through.
  3. Reboot or power cycle the server, and then re-enable OS to iDRAC Pass-through.
- When upgrading the iDRAC firmware from any version earlier to 1.30.30 to 1.30.30 and later, the Alert destination addresses resets to zeros. The same is applicable when downgrading from version 1.30.30 or later to any previous version. In such a case, reconfigure the Alert Destination IP addresses (**Server->Alerts->SNMP and Email Settings**).
- Any change in VNC server settings disconnects the active VNC session.

## iDRAC7 - Known Issues

### Issue 1

#### Description

In Chinese locale on Windows operating system, while launching the Virtual Console using Java plug-in, occasionally you may see a Java compilation error.

#### Resolution

1. Open the Java control panel.
2. Go to **General -> Network Settings**.
3. Select **Direct Connection** and click **OK**.

#### Versions/Systems Affected

All iDRAC7 supported Dell PowerEdge systems.

### Issue 2:

#### Description

Known iDRAC7 IPv6 limitations:

- o Email alerts are not sent if the iDRAC7 DNS Domain Name is not specified when using IPv6.
- o Network File Share (NFS) mounting does not work with IPv6. This applies to features such as connecting a remote file share or exporting the Lifecycle Controller log to a network shared location.
- o Firefox versions 4.x, 6.x, and 7.x may prevent the iDRAC7 Web interface from opening when using IPv6. For more information see: [https://bugzilla.mozilla.org/show\\_bug.cgi?id=633001](https://bugzilla.mozilla.org/show_bug.cgi?id=633001)
- o On Microsoft Windows Operating Systems, when launching Virtual Console using Java plug-in or when launching Video Capture plug-in, empty warning dialogs may appear. Continue to click **OK** to launch the plug-in. This is a known limitation in Java Web Start if its Network Settings is set to use browser settings. To resolve this, set the Java's Network Settings to Direct Connection.

#### Resolution (only for logging in to iDRAC7 Web interface):

1. Register iDRAC7 to DNS.
2. Make sure the client system also has this DNS in its DNS list.
3. Enable IPv6 and disable IPv4.
4. Log in to iDRAC7 using the Fully Qualified Domain Name (FQDN).

For launching Virtual Console with IPv6 in Firefox 4.0 or later versions, from Windows management system, run `ipconfig /flushdns` in the command prompt.

#### Versions/Systems Affected

All iDRAC7 supported Dell PowerEdge systems.

### Issue 3:

#### Description

The **Learn More** pop-up on the **License** page does not appear using IE.

#### Resolution

Add **\*.dell.com** to the trusted sites in the **Security** settings. See the *Internet Explorer help documentation* for more information.

#### Versions/Systems Affected

All iDRAC7 supported Dell PowerEdge systems.

### Issue 4:

#### Description

On Windows operating system, to add a folder as an image using the Virtual Media, the Desktop directory must be in the HOMEPATH directory. The HOMEPATH directory may vary depending on the Windows installation, but the images created from the "Add Folder as Image" operation always reside in the %HOMEDRIVE%\%HOMEPATH%\Desktop directory. The HOMEDRIVE must be set to C drive. Otherwise, the operation fails.

#### Versions/Systems Affected

All iDRAC7 supported Dell PowerEdge systems.

### Issue 5:

#### Description

If the management station is using Linux operating system with the **Pass all keystrokes to server** option enabled, you cannot resize the Virtual Console viewer window by dragging the corners or frame. This is a limitation of X-Windows.

#### Resolution:

Do any of the following:

- Disable the **Pass all keystrokes to server** option.
- With **Pass all keystrokes to server** option enabled, open any menu in the Virtual Console viewer window title bar, then re-size the window.

#### Versions/Systems Affected

All iDRAC7 supported Dell PowerEdge systems.

### Issue 6:

#### Description

vFlash functionality remains enabled after firmware update without preserving configuration.

If vFlash functionality is enabled and a firmware update is performed without preserving the configuration (**Preserve Configuration** is not selected), the **vFlash Enabled** option remains selected. This is a known behavior.

#### Resolution

You must manually enable or disable the vFlash functionality after the firmware update as required. To do this, select or clear the **vFlash Enabled** option in the iDRAC7 Web interface, or use RACADM or WinRM remote service commands.

#### Versions/Systems Affected

All iDRAC7 supported Dell PowerEdge systems.



## **Issue 7:**

### **Description**

In some scenarios, typically for state change events occurring within a span of few seconds, the sequence of events reported in the Lifecycle Log (or corresponding SNMP traps/email alerts) for storage devices may not exactly match the sequence in which they occurred.

### **Resolution**

The current state or attribute of the storage device can be checked in any of the iDRAC7 interfaces (example, iDRAC7 Web interface, RACADM and so on).

### **Versions/Systems Affected**

All Dell PowerEdge systems with iDRAC7 and out-of-band enabled PERC storage controllers.

## **Issue 8:**

### **Description**

When enclosures connected in the redundant path are re-wired (connections are switched) to result in a non-redundant path, the reported connected port value of the enclosures may not be accurate.

### **Resolution**

Power cycle the server.

### **Versions/Systems Affected**

All Dell PowerEdge systems with iDRAC7 and out-of-band enabled PERC storage controllers.

## **Issue 9:**

### **Description**

When a storage enclosure is disconnected or accidentally removed, the corresponding status of its components (that is, EMM, PSU, fan, and temperature sensors) is reported as critical.

### **Resolution**

If the storage enclosure is disconnected accidentally, reconnect it to get back to normal state. If it is intentional, perform iDRAC7 reboot or server power cycle to remove the enclosure entries from the consoles.

### **Versions/Systems Affected**

All Dell PowerEdge systems with iDRAC7 and out-of-band enabled PERC storage controllers.

## **Issue 10:**

### **Description**

Logging in to iDRAC7 Web interface fails with the error message 'RAC0218: The maximum number of user sessions is reached'.

When the temporary folder used by iDRAC7 components is full, it is possible that authentication fails and this error is displayed.

### **Resolution**

Power cycle iDRAC7 to clear the temporary space.

### **Versions/Systems Affected**

All Dell PowerEdge systems with iDRAC7.

## **Issue 11:**

### **Description**

On Microsoft Windows7 operating system, while launching Virtual Console in native mode using Internet Explorer, the **iDRAC7 Login** page is displayed.

Virtual Console uses plug-ins and due to insufficient privileges plug-in does not load and **iDRAC7 Login** page is displayed.

### **Resolution**

Reboot operating system and log in to iDRAC7 Web interface.

### **Versions/Systems Affected**

All Dell PowerEdge systems with iDRAC7.

## **Issue 12:**

### **Description**

When selecting browser buttons (forward or back), the GUI pages are not displayed correctly and sometimes the same page re-appears.

iDRAC7 Web interface is a platform management application and all the necessary controls are provided within the application. The Web browser buttons are outside of this application and may not function properly.

### **Resolution**

Use the navigation options within the iDRAC7 Web interface.

### **Versions/Systems Affected**

All Dell PowerEdge systems with iDRAC7.

## **Issue 13:**

### **Description**

When you log in to iDRAC7 Web interface using Internet Explorer 9.x, contents in few pages are not shown properly. This is a known issue with Internet Explorer.

### **Resolution**

1. Press <F12>. The **Internet Explorer 9 Debug** window is displayed.
2. Select **Document Mode -> Internet Explorer 7**. The browser refreshes and the **iDRAC7 Login** page is displayed.
3. Close the **Internet Explorer 9 Debug** window.
4. Close all open Internet Explorer windows.
5. Open Internet Explorer and log in to iDRAC7.

For more information, see Internet Explorer documentation.

### **Versions/Systems Affected**

All Dell PowerEdge systems with iDRAC7.

## **Issue 14:**

### **Description**

When an Enterprise or Enterprise Evaluation license expires, Active Directory is disabled automatically.

### **Resolution**

After re-installing the Enterprise or Enterprise Evaluation license, an administrative user can log in as an existing local iDRAC7 user to re-enable Active Directory authentication, using any iDRAC7 interface such as RACADM or the Web interface. Remote RACADM can be used in a script to batch-enable Active Directory. If a local iDRAC7 user is not enabled or is not configured for remote access, the administrative user must use local RACADM or OpenManage Server Administrator to configure a local user.

### **Versions/Systems Affected**

All Dell PowerEdge systems with iDRAC7.

### **Issue 15:**

#### **Description**

When a power reset is performed, the Virtual Console Viewer menu options (except **File** -> **Exit** and **Help** options) are grayed-out or inaccessible. The 'Link interrupted' message appears at the bottom of Virtual Console Viewer.

#### **Resolution**

Due to a temporary network outage, the Virtual Console Viewer menu options are not accessible. The "Link interrupted" message is displayed to indicate that an outage has occurred. This is a temporary problem and the menu options are available when the network is restored.

### **Versions/Systems Affected**

All Dell PowerEdge systems with iDRAC7.

### **Issue 16:**

#### **Description**

iDRAC7 Web interface does not respond when using Internet Explorer.

#### **Resolution**

Close all Internet Explorer sessions and open it again to access iDRAC7 Web interface.

### **Versions/Systems Affected**

All Dell PowerEdge systems with iDRAC7.

### **Issue 17:**

#### **Description**

When a driver pack DUP update is performed, the following message is recorded in the Lifecycle log after the driver pack update entry.

RAC0400: iDRAC memory low iDRAC is running low on memory. System performance may be degraded.

Recommended Action: No response action is required.

#### **Resolution**

No workaround is required. This is a normal condition when the memory is lower than the threshold for around 30 seconds and returns to normal after the driver pack update finishes.

### **Versions/Systems Affected**

All Dell PowerEdge systems with iDRAC7.

### **Issue 18:**

#### **Description**

Resetting iDRAC7 to default values action may take between four to six minutes to complete.

#### **Resolution:**

Wait for iDRAC7 to reboot before performing any other action.

### **Versions/Systems Affected**

All Dell PowerEdge systems with iDRAC7.

## Issue 19:

### Description

In the iDRAC7 Web interface -> **Overview** -> **Server** -> **Power/Thermal** -> **Power Monitoring** tab -> **Power** section, the **Power Unit** selector only changes the unit of measure. Due to the oscillating nature of power, the **Present Reading** cannot be displayed as units for **Current (Amps)**.

### Resolution

None.

### Versions/Systems Affected

All Dell PowerEdge systems with iDRAC7.

## Issue 20:

### Description

On all Intel NICs, each port cannot be assigned different iSCSI initiator name (by assigning the value for IscsiInitiatorName). If the name is changed for one port, the same change is applied to all ports.

### Resolution

None.

### Versions/Systems Affected

All Dell PowerEdge systems with iDRAC7.

## Issue 21:

### Description

When virtual world wide name and virtual world wide port name attributes on a NIC partition are set using the WS-MAN interface, the new values are not updated in the iDRAC7 Web interface or when `racadm getsysinfo` is run.

### Resolution

Use WS-MAN interface to obtain the updated values for those attributes.

### Versions/Systems Affected

All Dell PowerEdge systems with iDRAC7.

## Issue 22:

### Description

The Predicted Capacity Status attribute of the storage controller battery reported by iDRAC7 interfaces may not be accurate in some situations.

### Resolution

The Predicted Capacity Status attribute has been deprecated. To view the correct battery state, use the storage battery state/status values instead.

### Versions/Systems Affected

All Dell PowerEdge systems with iDRAC7 and out-of-band enabled PERC storage controllers.

## Issue 23:

### Description

When inventory changes are done to the storage sub-system (such as inserting and removing disk drives, and so on) before or during POST/reboot, the corresponding events may not be recorded in Lifecycle log. SNMP traps/email alerts may not be generated and the inventory changes may not be correctly reflected in the iDRAC7 interfaces (example, iDRAC7 Web interface, RACADM and so on).

### Resolution

To view the correct storage inventory data, perform a server power cycle (cold boot).

### **Versions/Systems Affected**

All Dell PowerEdge systems with iDRAC7 and out-of-band enabled PERC storage controllers.

### **Issue 24:**

#### **Description**

If a NIC card, with partitioning enabled, is replaced with a similar type of card, without partitioning enabled, the configurations from the previous card are not applied to the new card.

#### **Resolution:**

After the previous card is replaced with a new card and the system is powered on, go to OptionROM (CTRL-R) and enable partitioning. Save, exit, and reboot the system.

### **Versions/Systems Affected**

All Dell PowerEdge systems with iDRAC7.

### **Issue 25:**

#### **Description**

When using `DownloadServerPublicKey` or `DownloadClientCerts` commands in WSMAN, the invocation may fail when the iDRAC7 system is not ready to service the operations. This may happen when host system is in a POST stage.

#### **Resolution**

Wait until host system is past the POST stage and retry the command.

### **Versions/Systems Affected**

All Dell PowerEdge systems with iDRAC7.

### **Issue 26:**

#### **Description**

When launching Virtual Console viewer using ActiveX plug-in, a blank window appears and Virtual Console viewer does not launch.

#### **Resolution**

This may be due to incompatible binaries from a previous version. Remove temporary files from the download location on your system (for example, **C:\windows\Downloaded Program Files**) and retry.

### **Versions/Systems Affected**

All Dell PowerEdge systems with iDRAC7.

### **Issue 27:**

#### **Description**

When video player is launched, it launches both a playback control window and a playback window. On a Linux RHEL6.0 workstation, if the playback window loses focus, then you cannot switch back using the mouse.

#### **Resolution:**

This is an issue with the RHEL 6.0 version of Linux. Close the playback control window by selecting 'x' and select the playback program on task bar using the mouse to display the playback window. If you need to view the playback controls again, select its menu item from the playback window.

### **Versions/Systems Affected**

All Dell PowerEdge systems with iDRAC7.

## **Issue 28:**

### **Description:**

When running the Virtual Media client on Windows 7 or Windows Server 2008 R2, the Virtual Media client may not be able to access a floppy disk in read-write mode because of a problem with the client workstation operating system.

### **Resolution:**

Apply the operating system update to the Windows 7 or Windows Server 2008 R2 client workstation operating system as specified in the following link: <http://support.microsoft.com/kb/2496290>.

### **Versions/Systems Affected**

All iDRAC7 supported Dell PowerEdge systems being accessed by a Windows 7 or Windows Server 2008 R2 client workstation without the specified update applied.

## **Issue 29:**

### **Description:**

There is no option to eject the USB drive on SUSE Linux Enterprise Server 11. The only option to unmap virtual USB is to force unmapping using the Virtual Media window.

### **Resolution:**

Unmount virtual USB before forced unmapping to make sure the server has completed all the pending tasks before the drive is unmapped.

### **Versions/Systems Affected**

All iDRAC7 supported Dell PowerEdge systems.

## **Issue 30:**

### **Description:**

In a Linux operating system, after logging in to the iDRAC Web interface using a Firefox browser and you launch the Virtual Console, sometimes Virtual Console window does not respond to keyboard input.

### **Resolution:**

Close and re-launch the Virtual Console.

### **Versions/Systems Affected**

All iDRAC7 supported Dell PowerEdge systems.

## **Issue 31:**

### **Description**

When there is no license installed on a value line platform like T420, you cannot perform any firmware update through iDRAC Web interface using Dell Update Packages (DUPs). This is the correct behavior, but the displayed error message is not correct. Error message is "LIC006: The License has expired. Obtain a replacement license and import it."

### **Resolution**

Obtain an appropriate license then try again. If the problem persists, contact the technical support. See the product documentation to choose the contact method that is convenient for you.

### **Versions/Systems Affected**

All Dell PowerEdge systems with iDRAC7.

## **Issue 32:**

### **Description**

If you try to upload any other certificate other than a valid PKCS#12 format file, the iDRAC Web interface displays an incorrect error message.

### **Resolution**

Upload a valid PKCS#12 format certificate file.

### **Versions/Systems Affected**

All Dell PowerEdge systems with iDRAC7.

## **Issue 33:**

### **Description:**

On applying Delete Custom SSL Certificate when no certificate (CSC) is available, GUI displays the message: RAC0507 Unable to find the requested resource. Do one of the following and retry the operation:

- Turn on the system.
- Make the resource available.

### **Resolution:**

No impact as such, the request to delete non-existent CSC results in this message.

### **Versions/Systems Affected:**

All Dell PowerEdge systems with iDRAC7.

## **Issue 34:**

### **Description:**

After uploading a custom signing certificate to iDRAC and restarting iDRAC, when you log in to iDRAC Web interface using Firefox browser, the security certificate error is displayed. This is because the serial number of the certificate that was stored in the Firefox browser cache is the same as the serial number of the certificate on iDRAC.

### **Resolution:**

Remove the browser certificate in the cache and log in to the iDRAC Web interface. For information on removing certificates, see the Firefox documentation. If the problem persists:

1. Log in to iDRAC using racadm and run `sslresetcfg`.
2. Perform steps to upload custom signing certificate.

## **Issue 35:**

### **Description**

On PowerEdge M520, if a Broadcom 57810S DP 10G KR Mezz 55 GHP or Qlogic DP 10 Gb SFP+/DA CNA Mezz RX8GJ is installed, an additional blank entry is displayed in the System Inventory page of the Web interface and on other interfaces such as RACADM, WSMAN, and Lifecycle Controller GUI.

### **Resolution**

This is a false entry and can be ignored.

### **Versions/Systems Affected**

Dell PowerEdge M520

## **Issue 36:**

### **Description**

Sometimes invalid characters are displayed on the server console screen after exiting iDRAC Virtual Console.

### **Resolution**

Launch virtual console and clear the **Automatic System Lock** option.

### **Versions/Systems Affected**

All Dell PowerEdge systems with iDRAC7.

## **Issue 37:**

After an iDRAC7 firmware update, some of the iDRAC7 Web interface panels or navigation menu items may contain incorrect or invalid entries.

### **Resolution**

Clear your browser cache(s) after updating the iDRAC7 firmware.

### **Versions/Systems Affected**

All Dell PowerEdge systems with iDRAC7.

## **Issue 38:**

### **Description**

Credential vault contents may be erased when upgrading to or downgrading from iDRAC7 firmware version 1.40.40, resulting in different symptoms.

### **Resolution**

Back up the Credential Vault data (uploaded certificates, and so on) before upgrading to or downgrading from iDRAC7 1.40.40 firmware. After the firmware update is complete, reload the Credential Vault contents.

### **Versions/Systems Affected**

All Dell PowerEdge systems with iDRAC7.

## **Issue 39:**

### **Description**

In the iDRAC7 Web interface > **System Inventory** page, the AMULET Video Mezzanine card description is displayed as "Whistler[Radeon E6760]" and the description for Manufacturer is displayed as "Advanced Micro Devices[AMD]nee ATI".

### **Resolution**

No impact and can be ignored.

### **Versions/Systems Affected**

PowerEdge M420, PowerEdge M520, and PowerEdge M620 systems with iDRAC7.

## **Issue 40:**

### **Description**

When the host operating system is Windows Server 2012 R2, if the Virtual Media device is mapped to the host system and if you try to perform firmware update to an earlier version using Dell Update Package (DUP), the firmware update process may stop.

### **Resolution**

If you want to update the firmware to an earlier version (example, from 1.45.45 to 1.40.40 or to 1.37.35, and so on), use the iDRAC7 Web interface instead of a DUP package. If you have to use a DUP, then before running the DUP, make sure there are no active Virtual Media sessions on iDRAC.



### **Versions/Systems Affected:**

All 12th generation Dell PowerEdge servers with Windows Server 2012 R2 operating system.

### **Issue 41:**

#### **Description**

When performing firmware update using local racadm with `-pud` option (update from the host server), if racadm is not invoked from the installation directory (example, **C:\Program Files\Dell\Sysmgt\iDRAC\**), then after the firmware update is completed successfully, the following error message may be displayed: "Waiting iDRAC Fully Initialized Timeout"

#### **Resolution**

Run local racadm from the racadm installation directory.

### **Issue 42:**

#### **Description**

In the iDRAC7 Web interface, the **System Inventory** or **Network Device** page for Fibre Channel devices does not display the current firmware version or vendor name details for Emulex FC16 card.

#### **Resolution**

Update the FC16 firmware twice from the operating system (not using the iDRAC update method). For more information, see Emulex documentation.

#### **Versions/Systems Affected**

All Dell PowerEdge systems with iDRAC7.

### **Issue 43:**

#### **Description**

In systems with iDRAC 1.30.30 firmware version, the `sslencryptionstrength` racadm command does not work for both firmware and local racadm interfaces.

#### **Resolution**

Use the remote racadm interface, iDRAC Web interface, or WSMAN to configure the SSL encryption length. You can also use `idrac.webserver.LowerEncryptionBitLength` object.

#### **Versions/Systems Affected**

All 12th generation Dell PowerEdge servers with iDRAC7 version 1.30.30.

### **Issue 44:**

#### **Description**

After exiting virtual console from iDRAC sometimes invalid characters appear on the server screen when there is no desktop running on the server operating system.

#### **Resolution**

Launch Virtual Console and clear the Automatic System Lock option.

#### **Versions/Systems Affected**

All iDRAC7 supported Dell PowerEdge systems.

### **Issue 45:**

#### **Description**

Full export of Lifecycle Controller logs in Mac OS through Safari browser generates **Log.xml** file instead of **Log.xml.gz** file and the **Log.xml** contains partial content.

#### **Resolution**

1. Open Safari in Mac.
2. Go to **Safari > Preferences > General**.
3. Clear the **Open 'safe' files after downloading** option.

### **Versions/Systems Affected**

All iDRAC7 supported Dell PowerEdge systems.

### **Issue 46:**

#### **Description**

In some scenarios, typically when a PCIe SSD is removed from a server slot and a different PCIe SSD is inserted within a span of 5-10 seconds into the same slot, the server fan speeds may not get optimally configured to accommodate the thermal profile or tier of the inserted PCIe SSD.

#### **Resolution**

Power cycle the server.

### **Versions/Systems Affected**

All Dell PowerEdge systems with iDRAC7 and PCIe SSDs.

### **Issue 47:**

#### **Description**

On servers with Windows 2008 SP2 64-bit operating system, the iDRAC Virtual NIC USB Device is not discovered automatically (or enabled). The iDRAC Virtual NIC USB Device appears under unknown devices with yellow bang (or warning symbol).

#### **Resolution**

See steps recommended by Microsoft to manually update the RNDIS driver for this device.

### **Versions/Systems Affected**

All Dell PowerEdge Systems with iDRAC7.

### **Issue 48:**

#### **Description**

If the system with Linux operating system is stand alone or connected to a network hub, the communication to iDRAC through the OS to iDRAC pass-through channel for LOM pass-through mode does not work in the following scenarios:

1. For systems shipped from factory, initially the iDRAC network is in dedicated mode and the OS to iDRAC pass-through feature for LOM pass-through mode is disabled. The network cable is installed at LAN1. The host and the iDRAC IPs are configured for static IP addresses in the same subnet. Switch the iDRAC network from dedicated to shared mode, enable OS to iDRAC pass-through and set the pass-through mode to LOM.
2. When LAN1 is connected to a switch:
  - a. Both iDRAC and the host IPs are configured for static IP addresses in the same subnet.
  - b. Either iDRAC or the host IP is configured for static IP address and the other one received the IP through DHCP.
  - c. iDRAC and host both receive the IP through DHCP.

#### **Resolution**

To enable OS to iDRAC pass-through in shared mode:

1. Set the static IP address on the host system using the Network Manger GUI or edit the **/etc/sysconfig/network-scripts/ifcfg-eth0** file.
2. Set the static IP address for the iDRAC in the same subnet
3. Enable OS to iDRAC pass-through feature. For the steps, see *iDRAC7 User's Guide* at **[www.dell.com/esmmanuals](http://www.dell.com/esmmanuals)**.

4. Reboot the host system.
5. After restarting the host system, connect to the iDRAC using the static iDRAC IP address.

### **Versions/Systems Affected**

All Dell PowerEdge Systems with iDRAC7.

### **Issue 49:**

#### **Description**

When logging into iDRAC console, occasionally log in fails with PKCS security error.

#### **Resolution**

Run the `racadm sslresetcfg` command to clear this issue and log in successfully. This installs the default certificates and any self-signed or customer SSL certificates are replaced with the default certificate.

### **Versions/Systems Affected**

All Dell PowerEdge Systems with iDRAC7.

### **Issue 50:**

#### **Description**

In iDRAC7 version 1.45.45, if the OS to iDRAC Pass-through mode is set as LOM-PT and if you update the firmware to iDRAC7 1.51.50 with preserve configuration, the pass-through mode value resets to USB-NIC instead of LOM PT.

#### **Resolution**

Re-configure the OS to iDRAC pass-through mode to LOM-PT using RACADM or iDRAC7 Web interface.

### **Versions/Systems Affected**

All 12th generation Dell PowerEdge Systems with iDRAC7 1.50.50 or later.

### **Issue 51:**

#### **Description**

On a few servers, the remote get operation (type INI) is unsuccessful for the thermalsettings group. However, on the basis of the thermalsettings table of for 12th generation servers, this issue may or may not arise.

#### **Resolution**

Perform an individual group query or perform an XML file operation. For details about the group, individual group query can be performed.

### **Versions/Systems Affected**

All 12th generation Dell PowerEdge Systems with iDRAC7 1.51.50.

### **Issue 52:**

#### **Description**

If the Virtual Console is launched with IPv6 address and ActiveX in shared mode on NDC card (JC10M - Broadcom 57840S Quad Port 10Gb SFP+) and system is rebooted, Virtual Console disconnects and does not automatically reconnect.

#### **Resolution**

Re-launch the Virtual Console.

### **Versions/Systems Affected**

All 12th generation Dell PowerEdge Systems with iDRAC7 1.50.50 or later.

## Issue 53:

### Description

On servers with RHEL 5.x operating system, after upgrading to Java 1.7.0, attempting to launch the Java Virtual Media, Virtual Console, or Boot Capture plug-in results in an "Unable to load Native Library" message, and the Virtual Media is disabled. This issue is caused by the Security Enhanced Linux (SELINUX) "allow\_execmod" policy being set to "off", preventing the Virtual Media operation.

### Resolution:

Set the allow\_execmod policy to 'on' by running the following command:

```
setsebool -P allow_execmod on
```

### Versions/Systems Affected

All versions of iDRAC on 12th generation Dell PowerEdge Servers.

## Issue 54:

### Description

After upgrading to Java 1.7.0, a login failure is observed when launching Virtual Media or Virtual Console using the Java plugins. By default, Java 1.7.0 enables a certificate revocation check for all certificates in the chain of trust, using both Certificate Revocation Lists (CRL) with the Online Certificate Status Protocol (OCSP). With these settings, if the network on which the client system resides provides DNS resolution of the CRL and OCSP server names, but does not provide access to the servers, the temporary authentication credentials for the Virtual Media or Virtual Console session may expire before the certificate check times out.

### Resolution:

Perform any of the following actions:

- Provide network access to the CRL and OCSP servers.
- Disable DNS name resolution for the CRL and OCSP servers.
- Change the Java Control Panel settings:
  - **Perform certificate revocation checks on** from **All certificates in the chain of trust** to **Publisher's certificate only**
  - **Check for certificate revocation using** from **Both CRLs and OCSP** to **Certificate Revocation Lists (CRLs)**
- Change the Java Control Panel settings **Perform certificate revocation checks on** from **All certificates in the chain of trust** to **Do not check (not recommended)**.

Alternately, restoring the previous Java version also prevents the display of the message. See the Oracle Java documentation for information on how to uninstall Java.

After uninstalling, re-install Java 7 update 21 (or your preferred version).

### Versions/Systems Affected

All versions of iDRAC on 12th generation Dell PowerEdge Servers.

## Issue 55:

### Description

iDRAC Link local IPv6 address changes from bond0 local link address to USB0 local link address as soon as the OS to iDRAC pass-through is enabled in USB mode.

### Resolution

Save bond0 interface's link local IPv6 address before enabling the USB mode for later usage.

### Versions/Systems Affected

Platform independent.

## Issue 56:

### Description

In the case where an NDC supports OS to iDRAC Pass-through feature, but software arbitration is enabled for NC-SI, the LOM option must be hidden in the iDRAC configuration for OS to iDRAC Pass-through.

### Resolution

Use OS to iDRAC Pass-through channel in USB NIC mode.

### Versions/Systems Affected:

Full Height PowerEdge M820 server with Emulex bNDC ((which supports OS to iDRAC Pass-through but does not support hardware arbitration).

## Issue 57:

### Description:

If you have configured the OS to iDRAC Pass-through channel to LOM PT mode and if the iDRAC firmware is upgraded from 1.45.45 or lower versions to 1.50.50 or above versions, then after the firmware upgrade, the OS to iDRAC pass-through channel setting changes to USB NIC mode (default setting).

### Resolution:

After the firmware upgrade, set the OS to iDRAC Pass-through mode as LOM PT.

### Versions/Systems Affected:

Platform independent.

## Issue 58:

### Description:

FCoEWWN and PermFCoEMACAddress are shown as all zeros in Emulex rNDCs and NICs when FCoE partition is enabled.

### Resolution:

Use one of the following work arounds to get the correct values:

- Run `racadm get NIC.VndrConfigGroup`
- In the iDRAC Settings Utility, use the **NIC configuration** page to view the FCoE WWN.

### Versions/Systems Affected

All 12<sup>th</sup> generation Dell PowerEdge systems with Emulex rNDCs or NICs with FCoE partition enabled with iDRAC7 1.55.55 firmware.

## Issue 59:

### Description

When a MD1200/MD1220 storage enclosure's Enclosure management module (EMM) is removed, its temperature sensor values are shown in the iDRAC Web interface. iDRAC shows the negative readings instead of showing them as inactive. The state of the EMM is shown as removed or failed, Only the values are not shown intuitively to reflect its removed or failed status.

### Resolution

Check the EMM's status to make sure the temperature sensor's readings are correct.

### Versions/Systems Affected

All 12th generation PowerEdge systems with iDRAC7 and MD1200/MD1220 connected to it.

## **Issue 60:**

### **Description**

For servers with higher configuration (more enclosures and RAID components), firmware Racadm may not provide the complete output for hwinventory command.

### **Resolution**

Try using hwinventory export command.

### **Versions/Systems Affected**

All 12th generation Dell PowerEdge systems with iDRAC7 1.50.50 or later.

## **Issue 61:**

### **Description**

If **Attach Mode** is set to **Detach** on iDRAC Web interface (on the **Attached Media** page), then **Map CD/DVD** and **Map Remove Disk** does not appear in the Virtual Media drop-down menu after Virtual Media is connected from Virtual Console.

### **Resolution**

No impact and can be ignored.

### **Versions/Systems Affected**

All iDRAC7 supported Dell PowerEdge systems.

## **Issue 62:**

### **Description**

While executing a remote diagnostics from RACADM CLI, the diagnostic mode type of "2-Both" reports as an invalid input.

### **Resolution**

Diagnostics Mode type 2 is to execute both Express and Extended mode of the diagnostics operation. This can be achieved by executing Mode 1 and Mode 2 individually for getting the required diagnostics result.

### **Versions/Systems Affected**

All iDRAC7 supported Dell PowerEdge systems.

## **Issue 63:**

### **Description**

According to NIST, key lengths providing less than 112 bits of security strength must not be used to generate digital signatures after December 31, 2013. The self-signed SSL certificate provided with iDRAC7 1.55.55 is signed with a key length of 1024 bits which provides 80 bits of security strength. The next release will provide a key length of 2048 to follow NIST recommendations.

### **Resolution**

Option 1:

Provide in-house signed certificate using a key length of 2048 or greater and upload to iDRAC7.

Option 2:

Purchase third party signed certificate using a key length of 2048 or greater and upload to iDRAC7.

### **Versions/Systems Affected**

All iDRAC7 supported Dell PowerEdge systems.

## Issue 64:

### Description

When OS to iDRAC pass-through feature is disabled or if it is set to LOM PT mode and if iDRAC Service Module is installed on the host operating system, an incorrect warning message is displayed.

### Resolution

Make sure that OS to iDRAC pass-through feature is enabled through the internal USB bus in iDRAC7.

### Versions/Systems Affected

All 12th generation Dell PowerEdge systems with iDRAC7.

## Issue 65:

### Description

On the **Firmware Update** page, after uploading a **.img** file, any subsequent request may be redirected to the **Login** page. This may be due to a session timeout.

### Resolution

Make sure that the session time out is set to a value that is required for the upload process to complete (at least 2-3 minutes), depending on the file size.

### Versions/Systems Affected

All 12th generation Dell PowerEdge systems with iDRAC7 1.55.55

## Issue 66:

### Description

Under RACADM `getsensorinfo` command output, the ROMB battery reading is displayed as **Unknown** and status is displayed as **OK** when the battery is not present.

### Resolution

In the iDRAC Web interface, see the sensor page or interpret the unknown reading as battery absent.

### Versions/Systems Affected

All 12th generation PowerEdge systems with iDRAC7.

## Issue 67:

### Description

With the certificate validation option enabled for Active Directory or Generic LDAP, replacing the directory service CA certificate does not take effect without resetting the iDRAC.

### Resolution

If the certificate validation option is enabled for Active Directory or Generic LDAP, after replacing the directory service CA certificate, an iDRAC reset is required before attempting to log in with directory service user or running the login test setting on the iDRAC Web interface test setting page. If it is not possible to reset the iDRAC at this time, disable the Web server (in the **Network > Services > WebServer** section, clear the **Enabled** option and click **Apply**). Wait for two minutes and then re-enable the Web server.

### Versions/Systems Affected

All iDRAC7 supported Dell PowerEdge systems.

## Issue 68:

### Description:

Incorrect version information is provided in the Java Virtual Console **About** dialog box in Chinese, Japanese and Spanish localized languages.

### Resolution:

No impact.

### Versions/Systems Affected

All iDRAC7 supported Dell PowerEdge systems.

## Issue 69:

### Description

If the Rollback page is opened using Mac or Safari browser and if you click Refresh, the RAC0505 error message is displayed.

### Resolution

If the Rollback page is opened using Mac or Safari browser and if you click **Refresh**, the RAC0505 error message is displayed.

### Versions/Systems Affected:

All 12th generation Dell PowerEdge systems with iDRAC7.

## Issue 70:

### Description

After deleting the iDRAC Enterprise license and if you log in to the iDRAC Web interface and navigate to the Network page, a pop up message "Invalid VLAN ID" appears.

### Resolution

1. Go to the iDRAC Settings Utility and reset iDRAC to default settings.
2. Log in to the iDRAC Web interface and do the following:
  - a. Navigate to **iDRAC Settings > Network > VLAN Settings**.
  - b. Select the **Enable VLAN ID** option.
  - c. Modify **VLAN ID** to 1.
  - d. Click **Apply**.
  - e. Clear the **Enable VLAN ID** option.
  - f. Click **Apply**.

### Versions/Systems Affected

All 12th generation Dell PowerEdge systems with iDRAC7.

## Issue 71:

### Description

On the **Network Devices Summary** page, if you click **Help**, the content related to **Network Devices** page appears.

### Resolution

In Help, search for Network Device Summary to view the correct content.

### Versions/Systems Affected

All 12th generation Dell PowerEdge systems with iDRAC7.



## **Issue 72:**

### **Description**

The state of the PCIe SSD connected to the server is not reflected correctly or takes several minutes to reflect the correct state.

### **Resolution**

Power cycle the server or re-insert the PCIe SSD reflecting the incorrect state.

### **Versions/Systems Affected**

All Dell PowerEdge systems with iDRAC7 and out-of-band enabled PCIe SSDs (that is, NNMe devices).

## **Issue 73:**

### **Description**

If the system is powered on and if the server chassis lid is open for any reason, the following System Event Log (SEL) message may be generated:

SEC0033: "The chassis is open while the power is off."

### **Resolution**

If the system is still powered on, ignore this message.

### **Versions/Systems Affected**

All 12th generation Dell PowerEdge Rack and Tower servers.

## **Issue 74:**

### **Description**

If the iDRAC has a large number of records in the Lifecycle Log and from remote RACADM, if you run the `racadm lcllog view`, an error message is displayed.

### **Resolution**

To view the logs, use local `racadm`, firmware `racadm`, iDRAC Web interface or WSMAN. To view the latest logs using remote `racadm`, use the `-n` option. For example, to view the 10 latest logs, use `racadm lcllog view -n 10`.

### **Versions/Systems Affected**

All 12th generation Dell PowerEdge systems with iDRAC7.

## **Issue 75:**

### **Description:**

If the license level is Base Management with IPMI, when you upload a Dell Update Package (DUP) in **.exe** format, a license related error message appears.

### **Resolution**

In Base Management with IPMI license, you can only upload **.d7** image format. To upload **.exe** files, upgrade the license to iDRAC Enterprise and then retry the operation.

### **Versions/Systems Affected**

All 12th generation Dell PowerEdge systems with iDRAC7.

## **Issue 76:**

### **Description**

In the iDRAC Web interface, there is a mismatch in the hardware inventory and the software inventory for the display name of the Physical disk entries.

### **Resolution**

The software inventory Physical disk display name is not included the Controller Identifier. See the hardware inventory physical disk display name for information about the Controller Identifier.

#### **Versions/Systems Affected**

All 12th generation Dell PowerEdge systems with iDRAC7.

#### **Issue 77:**

##### **Description**

Automatic restore feature is not available in this release and so setting the new value to the Lifecycle Controller attribute "Automatic Restore Feature" displays the error "Invalid AttributeName"

##### **Resolution**

Ignore the Lifecycle Controller attribute "Automatic Restore Feature" during the WSMAN enumeration.

#### **Versions/Systems Affected**

All 12th generation Dell PowerEdge systems with iDRAC7.

#### **Issue 78:**

##### **Description**

The following error message is mentioned in the **Firmware Update** Help page:

If you navigate away from the page without committing the updates, an error message is displayed and all the uploaded content is lost.

##### **Resolution:**

The error message is not displayed. Ignore the content.

#### **Versions/Systems Affected**

All 12th generation Dell PowerEdge systems with iDRAC7 1.50.50 and later versions.

#### **Issue 79:**

##### **Description**

Performing a `racadm racresetcfg` does not clear any previously set Automatic Update settings as expected.

##### **Resolution**

To reset the settings, use a command to manually clear the settings or use the iDRAC Web interface.

#### **Versions/Systems Affected**

All 12th generation Dell PowerEdge systems with iDRAC7 firmware versions 1.51.51, 1.55.55, and 1.56.55.

## **iDRAC7 - Limitations**

- If floppy emulation is enabled when a bootable USB key is mounted as a Virtual Media from the Virtual Console and if you try to delete any file from the mounted USB key (floppy), the blue screen appears immediately.
- Web server session time-out is not exact. It is either 10% more or 15 seconds more, whichever is greater.
- WinRM and RACADM commands may become unresponsive during BIOS update or when setting BIOS, NIC, or RAID attributes through Lifecycle Controller.
- If invalid credentials are used for the maximum login attempts, the IP is blocked for the duration of the IP Blocking Penalty Time and a message is not displayed.
- If Internet Explorer (IE) 64-bit browser is used to log in to iDRAC7 Web interface and when viewing the power usage graph, the X and Y axis labels appear too small to read. This is a known limitation for IE 64-bit only.
- The labels appear correctly in IE 32-bit browser.

- On Linux management stations, if Firefox is launched from the root user, a USB key is mapped in Virtual Media successfully. If Firefox is launched from any user other than the root user, a USB key is not shown for mapping because the user must have root privileges to access all the low-level drives.
- Alert notification for battery events does not work.
- Operating system information on the System Summary page does not display after rebooting iDRAC7 until the operating system is rebooted.
- iDRAC7 users with user names containing a semi-colon (;) cannot log in to iDRAC7 through SSH.
- In the iDRAC7 Web interface, the power consumption sensor reading may have a rounding error of up to 13 Watts depending on the actual power reading. This is an IPMI limitation. The power cap, power graphs, cumulative power, and peak power are not affected by this inaccuracy. However, the power values shown in the power graphs are average values over a period of time and should not be used to calculate instantaneous power.
- Virtual Console uses self-signed certificates. Due to this, when launching Virtual Console from some management stations with Windows operating systems, a certificate warning appears.
- Virtual Console in dual monitor mode is not supported and hence the behavior is undefined, especially using Java plug-in. The primary console is used as the target console.
- The e-mail address specified in iDRAC7 Web interface -> **Overview** -> **iDRAC Settings** -> **Network** -> **SSL** -> **Generate Certificate Signing Request (CSR)** page is not validated.
- On a Linux management station with Matrox drivers, from the Virtual Console Viewer if you access the iDRAC Chat window, the mouse appears flickering inside the chat window.
- Work notes can display up to 255 characters. If any of the characters are special characters or non-alpha numeric characters, then the total number of characters displayed is less than 255 to accommodate overriding special characters.
- Performing a graceful shutdown from the iDRAC7 Web interface or updating the BIOS or the firmware using the iDRAC7 update method:
- For SLES 11 SP2:  
A prompt appears for the Super user password in the operating system console. Provide the root password and proceed with the graceful shutdown or firmware/BIOS update.
- For Windows OS in screen lock state:  
Graceful shutdown does not happen because, Windows operating system has a policy setting to disable shutdown while in locked state. Make sure that this policy is enabled.  
If it is not enabled, then it proceeds with ungraceful shutdown. This is equivalent to losing power. After the server resets, multiple options are displayed to start Windows. Select **Start Windows Normally** and then check the System Event Log file. You can see that an event is logged in for the ungraceful shutdown.
- Performing a graceful shutdown from the iDRAC7 Web interface or updating the BIOS or the firmware using the iDRAC7 update method:
  - For SLES 11 SP2:  
A prompt appears for the Super user password in the operating system console. Provide the root password and proceed with the graceful shutdown or firmware/BIOS update.
  - For Windows OS in screen lock state:  
Graceful shutdown does not happen because, Windows operating system has a policy setting to disable shutdown while in locked state. Make sure that this policy is enabled.  
If it is not enabled, then it proceeds with ungraceful shutdown. This is equivalent to losing power. After the server resets, multiple options are displayed to start Windows. Select **Start Windows Normally** and then check the System Event Log file. You can see that an event is logged in for the ungraceful shutdown.
- In the iDRAC Web interface > **Overview** > **Server** > **Lifecycle Log** page, when the filter criteria results in nothing found, the **Log Results** section does not display any user-friendly information and it is blank instead.
- VNC disconnects after host reboot on Wyse PocketCloud,
- Encrypted VNC does not work through Real VNC client.
- VNC does not work through mobile when encryption is enabled.

- OS to iDRAC communication through the USB NIC interface is not supported on RHEV – H (hypervisor) system.
- OS to iDRAC pass-through feature does not work when the host operating system is Linux.
- iDRAC Virtual NIC driver is not loaded when Windows 2008 SP2 (64 bit) installation has completed.
- When Virtual Console is in Lifecycle Controller, if **Next Boot** is set to **BIOS Setup**, rebooting the system boots to Lifecycle Controller instead of BIOS Setup.
- If the http or https service port is set to 1 or 65535, and if you launch the iDRAC7 Web interface using Google Chrome browser, it does not launch iDRAC7. This is because of a limitation in the Google Chrome browser. The resolution is to use Internet Explorer or Mozilla Firefox browsers.
- You cannot start the iDRAC after updating the NIC firmware, because the update process resets NDC. To resolve this issue, reset iDRAC after updating the NIC firmware.

## LC2-RS - Fixes

PCIe SSD configuration should be blocked through Remote Services.

## LC2-RS - Important Notes

If the iDRAC7 version is 1.50.50, Lifecycle Controller version must to be updated to 1.3.0.x.

## LC2-RS - Known Issues

### Issue 1:

#### Description

Lifecycle Controller may not perform the required operation correctly if incompatible iDRAC firmware is used.

#### Resolution

Update the Lifecycle Controller version to 1.3.0.x if the iDRAC7 version is 1.50.50.

#### Versions/Systems Affected

All LC2-RS supported Dell PowerEdge systems.

## LC2-RS - Limitations

- The drivers exposed by Lifecycle Controller are present in a read-only device labeled OEMDRV, and the device is active for 18 hours. In a Microsoft(r) Windows(r) and Linux environment, the drivers are automatically installed and no further action is required. In Red Hat Enterprise Linux version 4.8 only, the drivers are not automatically installed and you have to install the drivers manually after the OS installation has been completed.
- If the boot mode is set to UEFI in BIOS (F2 setup) and if you launch System Services (F10) and Deploy OS, the installation may fail or you may not be able to boot to the OS after the installation. Always make sure that the boot mode is set to BIOS in F2 setup before launching Lifecycle Controller and deploying the OS.
- You may see a no optical device found error if you have a non-usable DVD/CD in the optical drive. This error does not mean that there are no optical devices on the system. If you remove the non-usable media, then this error is resolved.
- To maintain compatibility with other iDRAC configuration tools, it is recommended that only digits (0-9), alphanumeric (a-z, A-Z) and hyphen (-) characters be used when entering a "Name" or "Password" string. When entering a "Domain Name", such as 'x123.com', a period (.) character is also permissible.

- When attempting a Platform Update through an FTP server, specifying a valid proxy server but selecting an invalid proxy type causes Lifecycle Controller to halt for a long period (possibly over 30 minutes) before it returns to normal operation.
- If you see this error message "Unable to find a boot device on which to install the operating system. Verify boot disk availability." and if you have a USB key plugged in to the system after booting to Lifecycle Controller, remove the USB key before deploying the operating system.
- If you are updating iDRAC firmware using a tool other than Lifecycle Controller, do not run Lifecycle Controller during the firmware update because doing this result in unknown behavior. After the firmware is successfully updated, you can safely use Lifecycle Controller.
- When configuring the FTP server for your repository in the platform update, you may get a message that indicates that a network connection exists with your FTP server; however, it may mean that the validation process needs some extra time depending on your network setting. Click **OK** on the message box, and try one more time to connect to the FTP server.
- Account access can be disabled only if there is more than one user enabled on the iDRAC. To enable users, access the iDRAC Web-based GUI. Navigate to the **Users** section under the **Network/Security** tab and enable users as needed. Note that at least one more user needs to be enabled to disable the account access in the Lifecycle Controller. In the iDRAC Configuration Wizard, the DNS Domain Name may contain a maximum of 64 ASCII characters.
- When attempting a Platform Rollback, there may be a two minute delay before Rollback tasks are displayed on the screen.
- In the iDRAC Configuration Wizard, there is no a selection for auto-attached on the Virtual Media Configuration page.
- During an UEFI based SLES 10 and SLES 11 installation, make sure that no additional USB or block storage devices are connected to the system. If there are one or more USB or block storage devices plugged into the system, the auto loading of drivers from the embedded storage fails. This fails because the current implementation of SLES installer reads only from one USB or block storage device.
- If an invalid SD card is attached to the system, the values shown for "Health" and "Available Space" options are not applicable.
- An "Invalid Update Package" error message is displayed, when
  - the folder containing the Update Package is not accessible.
  - the Update Package is not present on the USB mass storage device.
  - name of the Update Package is incorrect.
- Only Windows operating system can be deployed on systems with software RAID controller.
- Using Platform Update, you cannot update components such as Complex Programmable Logic Device, Backplane, and Physical Disk. However, the View Current Versions table displays these components.
- The SATA drives and their firmware version are not displayed on the View Current Versions page of Platform Update. To view the SATA drives and their firmware information, use OpenManage Server Administrator or OpenManage Storage Services.
- The PCIe SSD drives and their firmware versions are not displayed on the View Current Versions page of Platform Update.
- Collect System Inventory On Reboot (CSIOR) must to be run before enum is successful.

## iDRAC7 - Installation

### Prerequisites

Before you update iDRAC7 firmware using local RACADM or the Dell Update Package, perform the following procedures. Otherwise, the firmware update operation may fail.

1. Install and enable the appropriate IPMI and managed node drivers.
2. If your system is running a Windows operating system, enable and start the Windows Management Instrumentation (WMI) service.

3. If you are using iDRAC7 Enterprise and your system is running SUSE Linux Enterprise Server (version 10) for Intel EM64T, start the Raw service.
4. Disconnect and unmount Virtual Media.

## Installation Instructions

- From the Windows host operating system (managed node), run the Dell Update Package for Windows and follow the instructions on the update wizard.
- From the Linux host operating system (managed node), run the Dell Update Package for Linux from the shell prompt. Follow the instructions displayed on the console.
- From the management station, remotely update the firmware using the iDRAC7 Web interface:
  1. Extract the firmware image self-extracting file to the management station.
  2. Open the iDRAC7 Web interface using a supported Web browser.
  3. Log in as administrator.
  4. Go to **Overview** -> **iDRAC Settings** -> **Update and Rollback** -> **Update**. The **Firmware Update** page is displayed.
  5. Click **Browse**, select the **.d7** firmware image file that you extracted (step 1), or the Dell Update Package (DUP) for Windows, and click **Upload**.
  6. Wait for the upload to complete. After the upload is completed, the **Update Details** section displays the firmware file uploaded to iDRAC and the status.
- 7. Select the firmware file and click **Install** or **Install and Reboot**. If it is a DUP, **Install** dynamically changes to **Install and Reboot** and at the same time the **Install Next Reboot** is activated. When you click **Install and Reboot** or **Install Next Reboot**, the message "Updating Job Queue" is displayed.
- 8. Click **OK**. The **Job Queue** page is displayed, where you can view and manage the firmware update. After the update is completed, iDRAC7 restarts automatically.

For more information, see the *iDRAC7 User's Guide* available at

<http://www.dell.com/support/Manuals/us/en/555/Product/integrated-dell-remote-access-cntrlr-7-v1.50.50>

## Upgrade

iDRAC7 firmware cannot be installed on platforms that support iDRAC6 and cannot be used to upgrade iDRAC6 firmware to iDRAC7. For more information, see the *iDRAC7 User's Guide* available at

<http://www.dell.com/support/Manuals/us/en/555/Product/integrated-dell-remote-access-cntrlr-7-v1.50.50>.

## Uninstallation

Use the rollback feature to return to the previous installed version of iDRAC7 firmware.

For more information, see the *iDRAC7 User's Guide* available at

<http://www.dell.com/support/Manuals/us/en/555/Product/integrated-dell-remote-access-cntrlr-7-v1.50.50>.

# Lifecycle Controller 2 Remote Services - Client Tools

Use the WinRM and OpenWSMAN CLI client tools to send WS-MAN commands to Lifecycle Controller.

## WinRM

WinRM is a Windows native WS-MAN client. It is recommended to use WinRM 2.0 on Windows Management Stations. WinRM 2.0 is installed by default as a part of Windows 7 and Windows Server 2008 R2. It can also be installed as a part of the Windows Management Framework Core package on the following systems:

- Windows Server 2008 SP1
- Windows Server 2008 SP2
- Windows Server 2003 SP2
- Windows Vista SP1
- Windows Vista SP2
- Windows XP SP3

For more information on how to install WinRM 2.0 as a part of the Windows Management Framework Core package, see article 968929 in the Microsoft Knowledge Base at:

**<http://go.microsoft.com/fwlink/?LinkId=186253>**

Recommended WinRM Client Configuration:

- MaxBatchItems = 50
- MaxTimeoutms = 60000
- MaxEnvelopeSizekb = 150
- NetworkDelaysms = 60000

Sample WinRM Command (Enumeration Operation):

```
winrm e cimv2/DCIM_SystemView?__cimnamespace=root/dcim -u:[idrac user]  
-p:[idrac password] -r:https://[idrac ip address]/wsman -encoding:utf-8  
-a:basic -SkipCNcheck -SkipCAcheck -format:Pretty
```

**Note:** Lifecycle Controller uses a self-signed certificate for HTTPS (SSL) communication. Self-signed certificates are not accepted by the WinRM client and WinRM commands do not work without these options: `-SkipCNcheck` and `-SkipCAcheck`

## OpenWSMAN CLI

OpenWSMAN CLI is an open source Linux WS-MAN client. OpenWSMAN CLI source code and installation details are available at:

**<http://sourceforge.net/projects/openwsman/files/wsmancli>**

Sample OpenWSMAN CLI Command (Enumeration Operation):

```
wsmn enumerate http://schemas.dmtf.org/wbem/wscim/1/cim-schema/2/DCIM_SystemView -h  
(idrac ip address) -P 443 -u (idrac user) -p (idrac password) -v -j utf-8 -y basic -R -o  
-m 256 -N root/dcim -c cert_name.cer -V
```

**Note:** Lifecycle Controller uses a self-signed certificate for HTTPS (SSL) communication. Self-signed certificates are not accepted by the OpenWSMAN CLI client and WS-MAN commands do not work without these options: `-c`, `-v`, and `-V`. See the *OpenWSMAN CLI readme* for details on these options.

# Contacting Dell

Note: If you do not have an active Internet connection, you can find contact information on your purchase invoice, packing slip, bill, or Dell product catalog.

Dell provides several online and telephone-based support and service options. Availability varies by country and product, and some services may not be available in your area. To contact Dell for sales, technical support, or customer service issues:

1. Visit **www.dell.com/support**.
2. Select your support category.
3. Verify your country or region in the **Choose a Country/Region** drop-down menu at the top of page.
4. Select the appropriate service or support link based on your need.

# Accessing Documents From Dell Support Site

To access the documents from Dell Support site:

1. Go to **dell.com/support/manuals**.
2. In the **Tell us about your Dell system** section, under **No**, select **Choose from a list of all Dell products** and click **Continue**.
3. In the **Select your product type** section, click **Software and Security**.
4. In the **Choose your Dell Software** section, click the required link from the following:
  - Client System Management
  - Enterprise System Management
  - Remote Enterprise System Management
  - Serviceability Tools
5. To view the document, click the required product version.

You can also directly access the documents using the following links:

- For Remote Enterprise System Management documents – **dell.com/esmmanuals**
- For Enterprise System Management documents – **dell.com/openmanagemanuals**
- For Serviceability Tools documents – **dell.com/serviceabilitytools**
- For Client System Management documents – **dell.com/OMConnectionsClient**
- For OpenManage Connections Enterprise systems management documents – **dell.com/OMConnectionsEnterpriseSystemsManagement**
- For OpenManage Connections Client systems management documents – **dell.com/OMConnectionsClient**



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