

Integrated Dell Remote Access Controller 8 (iDRAC8) with Lifecycle Controller for Dell PowerEdge Servers

Version 2.43.43.43

Release Notes

Release notes

Integrated Dell Remote Access Controller (iDRAC)

iDRAC 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 (LC-GUI)

An out-of-band mechanism for configuring the platform, applying firmware updates, saving or restoring a system backup, or deploying an operating system, either by using a GUI or a remote scripting language. Lifecycle Controller GUI provides advanced embedded systems management and is delivered as part of iDRAC8. The GUI enables remote systems management in a one-to-one method and is accessible by pressing F10 during system boot.

Lifecycle Controller Remote Services (LC-RS)

LC-RS provides advanced embedded systems management and is delivered as part of iDRAC8. LC-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.

Version

iDRAC 2.43.43.43 (Applies to iDRAC8)

Lifecycle Controller 2.43.43.43

Release date

December 2016

Previous versions

2.41.40.40

2.40.40.40

2.35.35.35

2.32.31.30

2.30.30.30

Importance

Optional - Dell recommends that you review specifics about this update to determine if it applies to your system. The update contains changes that impact only certain configurations, or provides new features that may not apply to your environment.

Platforms affected

Supported system for iDRAC8 and LC:

- PowerEdge C4130
- PowerEdge R230
- PowerEdge R330
- PowerEdge R730
- PowerEdge T130
- PowerEdge T330

What is supported?

License requirements

Software licensing has replaced hardware licensing. For more information, see the iDRAC8 v2.40.40.40 *User's Guide* available at dell.com/idracmanuals.

Many features in Lifecycle Controller are licensed. You must install the appropriate license to use these features. For more information, see the Introduction section in the Dell Lifecycle Controller GUI v2.40.40.40 *User's Guide* available at dell.com/idracmanuals.

Supported managed server operating systems for systems for iDRAC8

The following operating systems are supported:

- Windows Server 2016
 - WinPE 4.0 32bit
 - WinPE 4.1 64bit
 - WinPE 5.1 64bit
 - WinPE 10.0
- Windows Server 2012
 - Foundation Edition
 - Essentials Edition
 - Standard Edition
 - Datacenter Edition
- Windows Server 2012 R2
 - Foundation Edition
 - Essentials Edition
 - Standard Edition
 - Datacenter Edition
- RedHat
 - RHEL 6.8
 - RHEL 7.3
- SLES
 - SLES 11 SP4
 - SLES 12 SP2
- Citrix
 - XenServer 7.0
- VMware
 - ESXi 6.0 U2
 - ESXi 6.5

Supported web browsers for iDRAC8

- Microsoft Internet Explorer 9
- Microsoft Internet Explorer 10
- Microsoft Internet Explorer 11
- Microsoft EDGE
- Safari version 7.1
- Safari version 8.0
- Mozilla Firefox version 45
- Mozilla Firefox version 46
- Google Chrome version 49
- Google Chrome version 50

What's new

- Added support for the following processors on PowerEdge R230, PowerEdge R330, PowerEdge T130, and PowerEdge T330 servers:
 - Intel Xeon Processor E3-1200 v6 Product Family
 - Intel Core Processor i3-7100 Product Family
 - Intel Pentium Processor G4600 Product Family
 - Intel Celeron Processor G3930 Product Family
- Added support for PowerEdge C4130 config K
- Updated OpenSSH to 1.0.2j for all Dell 13th generation platforms.
- Upgraded to OpenSSL 1.0.2j and removed support for OpenSSL 1.0.2i

Authentication

N/A

BIOS/UEFI

N/A

Hardware (server/storage platform specific)

- Added support for DDR4 2400 MT/s ECC UDIMM

iDRAC/LC firmware only

N/A

Monitoring and alerting

N/A

Networking and I/O

N/A

OS deployment

N/A

Scripting (all CLI related items)

N/A

Security

- SSL library upgrade

Storage and PERC

N/A

Support Assist and parts replacement

N/A

Updates

N/A

Fixes

- Increased header size in libwebsockets from 2048 to 8192.
- Fixes for handling of core files errors and removing large core files to get more space.
- Fix for clean flashing by clearing the maser partitions before flashing.
- FIPS related implementation for OpenSSL upgrade.
- License self-service portal link on iDRAC license page in GUI updated with Digitallocker URL.
- Fixes provided for log rotation issue.
- Thermal table update for Dell 13th generation PowerEdge R730 and PowerEdge C4130.
- Event generation enabled for performance usage sensors for PowerEdge R730 and PowerEdge C4130.
- Power Budget Tables updated for latest processor chipsets and hardware for the following Dell 13th generation servers:
 - PowerEdge C4130
 - PowerEdge R230
 - PowerEdge R330
 - PowerEdge R730
 - PowerEdge T130
 - PowerEdge T330
- Fixed occasional driver pack update failures when performed through iDRAC GUI, WS-MAN API, or remote RACADM command.
- NTLMv2 policy support for CIFS share while using SCP feature over all out of band iDRAC interfaces.
- Fix for occasional iDRAC unresponsiveness caused by upgrades via Firmware RACADM or have an active SOL or SSH sessions while firmware upgrade is in progress.
- Fixed the Import Buffer size limit for Server Configuration Profile (SCP) import operations via Redfish interface.
- Changed publication URI to DellDotCom.
- Removed erroneous DMTF references and unsupported schemas for Redfish interface.
- Fixed incorrect URL within the Redfish Server Configuration Profile (SCP) schema.

Authentication

N/A

BIOS/UEFI

N/A

Hardware (server/storage platform specific)

N/A

iDRAC/LC firmware only

N/A

Monitoring and alerting

N/A

Networking and I/O

N/A

OS deployment

N/A

Scripting (all CLI related items)

Security

N/A

Storage and PERC

N/A

Support Assist and parts replacement

N/A

Updates

N/A

Important notes

Note 1:

If your system shipped with iDRAC firmware version 2.43.43.43 or if you install this version, do not downgrade to a lower version. Due to difference in power thermal tables, downgrading to a lower version may cause system failure.

Known issues

- If you enumerate the enclosure view's WSMAN command on a system while one PSU-cable is removed, the primary status of the enclosure view is reported as **Healthy** instead of **Warning**.
- After iDRAC reset or firmware update, the ServerPoweredOnTime (a property in RACADM and WS-MAN) may not be populated until the host server is restarted.
- On performing warm boots, occasionally a message is displayed by BIOS indicating that there is a KCS failure (error code UEFI0039). No action required for this error. The error is caused by the timing change in the response of the daemons on the iDRAC. Rebooting the host restores normal boot behavior.
- Upon execution of racadm swinventory or racadm hwinventory command via a local RACADM interface, the inventory details are not fetched if all the OS drives (A-Z) are mapped. Unmap an existing OS drive to resolve this issue.
- Using local RACADM proxy, if you configure a CMC user name that consists of a space, the command does not successfully create the user name. Use CMC RACADM, Remote RACADM, or Remote RACADM proxy interface.
- Redfish response contains a HTTP header named Allow, when the HTTP response code is 405. The list may contain PATCH, DELETE, POST, GET, HEAD values, but all of them may not be supported.
- If a requested resource is not present, HTTP response status code may not be always 404.
- Scrolling-down using the mouse does not work in VNC server.
- When a new PCIe SSD drive is hot plugged in an empty drive bay slot, PrepareToRemove or SecureErase features on that drive fail unless the host is rebooted and it completes the CSIOR cycle.
- Sometimes, iDRAC logs the following message to the Lifecycle Controller log:
PWR2262: "The Intel Management Engine has reported an internal system error."
Also, it logs the following message within the next few minutes:
PWR2264: "The Intel Management Engine has reported normal system operation."
No action is required. All Dell PowerEdge systems with iDRAC7 and iDRAC8 are affected.
- Server Configuration Profile (SCP) Import and Preview configuration does not give details about the values that are modified via SCP Redfish. These configuration details are not available via Redfish interface. For configuration details, run the command - "racadm lalog viewconfigresult -j JID_XXXXXXXXXXXX".
- When you enumerate DCIM_NumericSensor using the WS-MAN interface, the SettableThreshold property displays 0, which indicates that the LowerThresholdNonCritical field can be set. However, for performance-statistic sensors, this is not a settable field. For these sensors, you can only set the UpperThresholdNonCritical field, indicated by the value of 1.
- Sometimes, when using WSMAN, an "Internal SSL Error" is reported and the WSMAN command fails. If this happens, retry the command to resolve the issue.
- Sometimes, SLES 12 OS installation may fail with an error "Please make sure your installation medium is available. Retry?" Retry the installation to resolve the issue.
- The command "racadm eventfilters get -c idrac.alert.all" to view all available event filter configurations using local RACADM may fail. Use either firmware RACADM or remote RACADM to run the command.
- iDRAC firmware update from GUI needs "Configure" user privilege and not the "System Control" privilege as mentioned in the iDRAC v2.40.40.40 User's Guide.

Limitations

Item 1:

Description:

On the Dell 13th generation PowerEdge servers, a clone export of a system with 64 virtual disks does not recreate the virtual disks on the target system.

Resolution

On Clone or Replace modes of Configuration XML export, the virtual disk creation operation is set to "CreateAuto" by default. Change the operation to "Create" and specify the physical disks to be used by FQDD to resolve this issue.

Versions/Systems affected

All Dell PowerEdge systems with iDRAC7 and iDRAC8.

Dell tracking: JIT-28891

Item 2:

Description:

For Intel cards, the PHY link on the shared LOM ports stays up during a DC power cycle.

Resolution:

The NIC can only be reset by doing an AC power cycle

Versions/Systems affected

PowerEdge R730

Dell tracking: JIT-30630

Item 3:

Description:

On Dell 13th generation PowerEdge servers with PERC 830, create 98 foreign drive on it, then Login to iDRAC GUI, under Storage -> Controller page -> Setup Tab, selecting PERC 830 Controller from the drop down box, Foreign configuration section shows "STOR006: Unable to complete the operation."

Resolution:

Press Ctrl+R or in-band agent like OMSS can be used to preview foreign configuration. Issue is seen only with Preview, actual foreign configuration import through racadm will work.

Versions/Systems affected

PowerEdge R630

Dell tracking: JIT-12251

Item 4:

Description:

On NANO operating system, you cannot install a firmware or driver DUP if it is in .exe format.

Versions/Systems affected:

All

Item 5:

Description

Deployment of the Windows server operating systems (OS) using Lifecycle

Controller (LC) may fail with one of the following message:

- Windows installation cannot continue because a required driver could not be installed.
- Product key required.
- Windows cannot find the software license terms.

This happens when the Windows setup copies the drivers to the scratch space (X: drive) and the scratch space becomes full.

Resolution

To resolve this issue, do any of the following:

Remove all the installed add-on devices before starting the OS installation.

After the OS installation is complete, connect the add-on devices and manually install the remaining drivers using Dell Update Packages (DUPs).

To avoid physically removing the hardware, disable the PCIe slots in the BIOS.

Increase scratch space size beyond 32 MB using DISM set-scratchspace command when creating customized deployment. See [http://technet.microsoft.com/en-us/library/dd799261\(v=ws.10\).aspx](http://technet.microsoft.com/en-us/library/dd799261(v=ws.10).aspx) for more details.

Platforms Affected

This issue may occur on 12th and 13th generation Dell PowerEdge servers.

Item 6:

Description

The SSM task header displays **RAID-Update** for both RAID and non-RAID updates.

Resolution

No action is required.

Platforms Affected

All.

Dell Tracking: JIT-29065

Item 7:

Description:

On Dell PowerEdge T630 servers, all PCIe SSDs are reported on the Physical Disk page of iDRAC GUI but on the Enclosure Summary page, the PCIe SSD connected to slot 0 is not reported.

Resolution:

Use Physical Disk page in the iDRAC GUI to see all available PCIe SSDs.

Versions/Systems affected

PowerEdge T630

Dell tracking: JIT-32017

Installation

CAUTION: If your system shipped with iDRAC firmware version 2.43.43.43 or if you install this version, do not downgrade to a lower version. Due to difference in power thermal tables, downgrading to a lower version may cause system failure.

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 iDRAC web interface:
 1. Extract the firmware image self-extracting file to the management station.
 2. Open the iDRAC 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.
 8. When you click **Install and Reboot** or **Install Next Reboot**, the message **Updating Job Queue** is displayed.
 9. Click **OK**. The Job Queue page is displayed, where you can view and manage the firmware update.

After the update is completed, iDRAC restarts automatically.

For more information, see the iDRAC User's Guide available at dell.com/idracmanuals.

Upgrade

Not applicable.

Uninstallation

Not applicable.

Lifecycle Controller Remote Services - client tools

Use the OpenWSMAN CLI client tool to send WS-MAN commands to Lifecycle Controller.

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):

```
wsman 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, go to dell.com/contactdell.

Accessing documents from Dell Support website

To access the documents from Dell Support website:

1. Go to dell.com/support/manuals.
2. In the **Choose from all products**, click **View products**.
3. Click **Software and Security** and then click the required link.
4. To view the document, click the required product version.

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

iDRAC and LC documents	dell.com/idracmanuals
Enterprise System Management	dell.com/openmanagemanuals
Serviceability tools	dell.com/serviceabilitytools
OpenManage Connections Enterprise Systems Management	dell.com/OMConnectionsEnterpriseSystemsManagement
OpenManage Connections Client Systems Management	dell.com/OMConnectionsClient

Information in this document is subject to change without notice.

© 2016 Dell Inc. All rights reserved.

Reproduction of these materials in any manner whatsoever without the written permission of Dell Inc. is strictly forbidden. Trademarks used in this text: Dell(TM), the DELL logo, PowerEdge(TM), PowerVault(TM), Compellent(TM) and OpenManage(TM) are trademarks of Dell Inc. Intel(R) is a registered trademark of Intel Corporation in the U.S. and other countries. Microsoft(R), Windows(R), Windows Server(R), Internet Explorer(R), Hyper-V(R), Active Directory(R), ActiveX(R) and Windows Vista(R) are trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries. Red Hat Enterprise Linux(R) and Enterprise Linux(R) are registered trademarks of Red Hat, Inc. in the United States and/or other countries. The term Linux(R) is a registered trademark of Linus Torvalds, the original author of the Linux kernel. SUSE(TM) is a trademark of Novell Inc. in the United States and other countries. XenServer(R) is a registered trademark of Citrix Systems, Inc. in the United States and/or other countries. Mozilla(R) and Firefox(R) are registered trademarks of Mozilla Foundation. VMware(R) and ESX(TM) are registered trademarks or trademarks of VMware, Inc. in the United States and/or other jurisdictions. Java(TM) is a registered trademark of Oracle and/or its affiliates. Google(R) and Chrome(TM) is a trademark of Google Inc. Mac(R), Macintosh(R), and Mac OS(R), Safari(R), and OS X(R) are trademarks of Apple Inc., registered in the U.S. and other countries. Matrox(R) is a registered trademark of Matrox. Broadcom(TM) is a trademark of Broadcom Corporation and/or its affiliates in the United States, certain other countries, and/or the EU. QLogic(R) is a registered trademark of QLogic Corporation. AMULET(TM) is a trademark of AMULET Development Corp. Brocade(R) is a registered trademark of Brocade Communications Systems, Inc., in the United States and/or in other countries.

Other trademarks and trade names may be used in this publication to refer to either the entities claiming the marks and names or their products. Dell Inc. disclaims any proprietary interest in trademarks and trade names other than its own.