

# iDRAC9 with Lifecycle Controller Version 3.20.21.20

Release Notes

## Notes, cautions, and warnings

 **NOTE:** A NOTE indicates important information that helps you make better use of your product.

 **CAUTION:** A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

 **WARNING:** A WARNING indicates a potential for property damage, personal injury, or death.

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# Release summary

This release adds support for new memory and processors, fixes a remote RACADM code issue, and enhances user privileges requirement for changing Directory Service settings.

## Version

iDRAC9 with LC 3.20.21.20

## Release date

October 2018

To download this version of iDRAC, see [Downloading iDRAC firmware installation file](#).

**NOTE:** For details about the previous releases, if applicable, or to determine the most recent release for your platform, see KB article SLN308699 available at [www.dell.com/support/article/sln308699](http://www.dell.com/support/article/sln308699).

## Priority and recommendations

Recommended: Dell recommends applying this update during your next scheduled update cycle. The update contains feature enhancements or changes that will help keep your system software current and compatible with other system modules (firmware, BIOS, drivers, and software).

# Compatibility

## Supported systems

- PowerEdge MX740c
- PowerEdge MX840c
- PowerEdge MX5016s — Storage
- PowerEdge MX7000 — Chassis
- PowerEdge MX7116n
- PowerEdge MX9116n

## Previous versions

N/A

## Supported managed server operating systems and hypervisors

- Microsoft Windows
  - Server 2012 R2 Foundation
  - Server 2012 R2 Essentials
  - Server 2012 R2 Standard
  - Server 2012 R2 Datacenter
  - Server 2016 Essentials
  - Server 2016 Standard
  - Server 2016 Datacenter
  - WinPE 5.0 64-bit
  - WinPE 10
- Linux
  - RHEL 7.5
  - RHEL 6.9
- SLES
  - SLES 12 SP3
- Ubuntu
  - Ubuntu 16.04.04
- VMware
  - ESXi 6.5 U2
  - vSphere 6.7
- Citrix
  - XenServer 7.1 CU1

# Supported web browsers

- Microsoft Internet Explorer 11
- Microsoft EDGE
- Safari 8.0.8
- Safari 9.0.3
- Mozilla Firefox 57
- Mozilla Firefox 58
- Google Chrome 62
- Google Chrome 63

# Supported software

## Java

- Java - Oracle version

## DRAC tools

This version of iDRAC requires the DRAC tools from OpenManage 9.1.3 or later for the following:

- VMCLI on Windows or Linux
- Remote RACADM on Linux with IPv6

Download the DRAC tools from the **Drivers & downloads** page for your system at [www.dell.com/support](http://www.dell.com/support).

Before installing DRAC tools from OM 9.1.3, you must uninstall any older versions of DRAC tools. For more information about uninstalling applications, see the documentation for your operating system.

## New and enhanced features

### Hardware — Server or storage platform specific

- Added support for 128 GB DIMMs.
- Added support for new processors.

## Authentication

- 112041, 111801: Changed the required privileges for configuring Directory Services from the Operator role to Administrator role.

① | **NOTE: The Help in iDRAC web interface does not mention this change.**

## iDRAC and LC firmware

- 111573: Fixed a crash issue in remote RACADM code.

## Monitoring and alerting

- 104875: Fixed an issue that was sometimes causing the BOSS components to be listed partially in iDRAC.

## Important notes

- 1 CPLD firmware update has no impact on Trusted Platform Module enablement.
- 2 Rollback is not supported for CPLD.
- 3 When you reset or update the iDRAC, you must reboot LC if it is launched already. If you do not reboot, LC may show unexpected behavior.
- 4 The drivers that LC exposes are present in a read-only drive labeled OEMDRV and the drive is active for 18 hours. During this period:
  - You cannot update any DUP.
  - LC cannot involve CSIOR.

However, if an AC power cycle (cold boot) is performed, the OEMDRV drive is automatically deleted.

- 5 Depending on the virtual storage device attached through iDRAC, that is, USB drive or CD/DVD .ISO file, LC displays **Virtual Floppy** or **Virtual CD** respectively.
- 6 The option to enable or disable the disk cache policy for SWRAID controllers are supported only on SWRAID controller driver version 4.1.0-0025 or later.
- 7 If any of the NVMe drives report a 'Failed' status (Red LED) due to any of NVMe controller SMART errors (critical warning bits set), it should be treated as a predictive failure (Blinking amber LED). These errors include SMART errors such as:
  - Available spare threshold
  - Reliability degraded
  - Read-only mode
  - Virtual memory backup failed, and so on
- 8 If the network is not configured and you try to perform a network operation in LC, a warning message is displayed. When you navigate to the network settings page from this message, the left navigation panel on network settings page may not be displayed.
- 9 If Test Network Connection fails for a valid address in LC, try configuring the network settings again. If the issue persists, restart the system and retry the operation.
- 10 Fibre-channel NIC cards with dual or four ports are displayed as a single port card in LC. However, all ports are updated when a firmware update is performed.
- 11 When CMCs are daisy chained, only the first CMC (CMC which is connected to Top of Rack switch) receives LLDP packets. Other CMCs do not receive LLDP packets. So the iDRAC network port (dedicated mode) LLDP information is not available in the blades whose corresponding CMC is not the first CMC in the daisy chain. The LLDP information is also not available for every CMC in the daisy chain that is not connected to TOR switch directly.

## Known issues — To be fixed in future releases

### Unable to install RHEL 7.5 using HTML5 virtual console

<b>Description</b>	Installing RHEL 7.5 using an HTML5 virtual console may fail.
<b>Workaround</b>	Install RHEL 7.5 with Java or ActiveX virtual console.
<b>Systems affected</b>	All system supported by this release.
<b>Tracking number</b>	78656

### WSMan job with ProcAts attribute fails

<b>Description</b>	Although the ProcAts attribute is not supported in BIOS, you may be able to create a configuration job using WSMan. However, the job fails and returns an error message. This attribute is not visible in any of the interfaces or WSMan enumeration.
<b>Workaround</b>	Do not use the ProcAts attribute because it is not supported in BIOS.
<b>Systems affected</b>	All system supported by this release.
<b>Tracking number</b>	78968

### Incorrect slot names displayed in LC logs

<b>Description</b>	Incorrect slot names are displayed in LC logs when NVMe Disks are installed in the system.
<b>Workaround</b>	When an NVMe disk is replaced in a system that has multiple slots in a bay, PR7 message is displayed with Bay <number>, where the <number> is actually the slot number. For example, in the following message, Slot number is 3 and Bay number is 2:
	<pre>[Date] PR7 Dell NVMe PCIe SSD Configuration Data(Bay 3:Enclosure Internal 0-2)</pre>
<b>Systems affected</b>	All system supported by this release.
<b>Tracking number</b>	79270

### Virtual media through HTML5 does not connect with Google Chrome

<b>Description</b>	When using Google Chrome version 61 or 62, virtual media connection using the HTML5 plugin may fail.
<b>Workaround</b>	Use Google Chrome version 63 or later, or use other supported browsers.
<b>Systems affected</b>	All system supported by this release.

Tracking number 81201

## ValueName regex does not match schema definition

**Description** ValueName regex does not match the schema definition for some of the properties in the BIOS Attribute Registry and the Boot Sources Registry returned by Redfish API.

**Workaround** Defer the regex check for the ValueName returned for BIOS Attribute Registry and the Boot Sources Registry against the schema.

**Systems affected** All system supported by this release.

Tracking number 88651

## Error message ENC41 for IOM restoration not generated

**Description** In MX-series systems with HBA 330MMZ and two IOMs, Event and Error Message ENC41 for IOM restoration is not generated.

**Workaround** To confirm restoration of the IOM using the iDRAC web interface:

- 1 Go to **Storage > Overview > Enclosures**.
- 2 Select the enclosure.
- 3 Under **Advanced Properties**, check the value for **Redundant Path**. If the Redundant Path value is Present, IOM is restored successfully.

**Systems affected** All system supported by this release.

Tracking number 91991

## RACADM command does not fully clear a job configuration

**Description** If a job is in Scheduled state and there is another job for the same component in Completed or Failed state, the `racadm JID_CLEARALL` command does not clear the configuration completely. In such a scenario, the device or component cannot be configured further.

**Workaround** To clear the configuration completely, use the following command:

```
racadm jobqueue delete -i JID_CLEARALL_FORCE
```

**Systems affected** All system supported by this release.

Tracking number 93652

## Importing foreign virtual disk fails

**Description** The import foreign virtual disk command fails in the following scenario:

- 1 Create a VD on a physical disk. A job is created and moved to Pending state.
- 2 Delete the pending job on the pending adapter.
- 3 Disconnect the physical disk without shutting down the system.

4 Reconnect and import the physical disk.

In this scenario, the pending adapter status mask is not reset.

<b>Workaround</b>	Before importing the disk, perform a clear-pending operation using any of the iDRAC interfaces.
<b>Systems affected</b>	All system supported by this release.
<b>Tracking number</b>	94823

## Video signal lost during a VNC session

**Description** Under certain conditions, VNC session may display `No signal`. The loss of video signal occurs at certain high screen resolutions, including 1600x1200, 1680x1050, 1920x1080, and 1920x1200, and if there are videos or moving images, such as screen savers, to display.

**Workaround**

- If a screen saver is active, press any key or move the mouse.
- Minimize the applications that are displaying videos or moving images, and reduce the display resolution of the host to 1400x900 or lower. You can minimize the applications using the following keyboard shortcuts:
  - Windows: Alt+SpaceBar+N
  - RHEL: SuperKey+H
  - Ubuntu: CTRL+SuperKey+D
- Connect the monitor with a resolution of 1400x900 or lower.

<b>Systems affected</b>	PowerEdge MX740c, MX840c, and MX5016s.
<b>Tracking number</b>	96663

## Port Link Status of NPAR capable NICs displayed as Down

**Description** In iDRAC web interface, link status of certain NIC ports is displayed as **Down** even when the physical link is present.

**Workaround** Install the network drivers in the host OS.

<b>Systems affected</b>	All system supported by this release.
<b>Tracking number</b>	97238

## Controller port number mismatch between iDRAC web interface and OMSS

**Description** If the compute sled is connected to the storage sled that has a single path (multipath broken), the controller port number displayed in the iDRAC web interface (**Storage > Overview > Enclosure**) may not match the number displayed in OMSS.

**Workaround** To avoid the mismatch, ensure that the IOMs and the expanders are in redundancy mode.

<b>Systems affected</b>	All system supported by this release.
<b>Tracking number</b>	97256

## Online Help text is cropped

<b>Description</b>	If the DPI of your screen in Windows is set to higher than 125%, some characters in the Online Help of iDRAC web interface get cropped.
<b>Workaround</b>	Use a DPI of 125% or lower.
<b>Systems affected</b>	All system supported by this release.
<b>Tracking number</b>	97805

## Duplicate entries in LC log for SSH login

<b>Description</b>	Logging in to iDRAC using SSH creates two entries in LC logs. The first one is an invalid login entry and the second one is a valid login entry.
<b>Workaround</b>	Ignore the invalid login message if it appears immediately before a valid login message from SSH.
<b>Systems affected</b>	All system supported by this release.
<b>Tracking number</b>	98140

## Remote syslog alerts not received

<b>Description</b>	If the syslog server is configured with IPv6, remote syslog alerts are not received.
<b>Workaround</b>	Use IPv4 on the syslog server.
<b>Systems affected</b>	All system supported by this release.
<b>Tracking number</b>	98450

## Error responses for HTTP status codes do not match Redfish standard

<b>Description</b>	The JSON error responses returned by Redfish API for HTTP status codes 501 and 401 do not follow Redfish extended error-response standard.
<b>Workaround</b>	Ignore any response-message parser errors.
<b>Systems affected</b>	All system supported by this release.
<b>Tracking number</b>	98614

## Job completion percentage displayed incorrectly in Redfish

<b>Description</b>	In the Redfish interface, after a firmware update or rollback job is complete, the completion percentage displays as 254% instead of 100%.
<b>Workaround</b>	No action is required. A 'Completed' status indicates that the job is successful.
<b>Systems affected</b>	All system supported by this release.
<b>Tracking number</b>	98973

# Undesired characters displayed while entering user name at the host OS prompt

<b>Description</b>	If you reboot the host and enter the user name followed by a backspace at the host OS prompt, undesired characters are displayed. The issue occurs only if a session with SSH and IPMI SOL is active.
<b>Workaround</b>	Press Enter to display the login prompt again and enter the correct characters. If you are at the password prompt, press ^C to exit the prompt.
<b>Systems affected</b>	All system supported by this release.
<b>Tracking number</b>	100327

# Unable to import factory-installed license for iDRAC

<b>Description</b>	Although you can export the factory-installed iDRAC license, you cannot import it.
<b>Workaround</b>	Obtain the equivalent license from the Dell Digital Locker or contact Dell EMC.
<b>Systems affected</b>	All system supported by this release.
<b>Tracking number</b>	100349

# Unable to download files from iDRAC using Safari

<b>Description</b>	If you access the iDRAC web interface using Safari, you may be unable to download some types of files. The files include SCP export, license, hardware inventory, video captures, Group Manager summary and jobs, Lifecycle logs, and so on.
<b>Workaround</b>	Use one of the other supported browsers.
<b>Systems affected</b>	All system supported by this release.
<b>Tracking number</b>	100814

# Incorrect priority displayed for firmware on iDRAC web interface

<b>Description</b>	While updating any firmware from the iDRAC web interface, Recommended firmware versions are listed as <b>Critical</b> and Critical firmware versions are listed as <b>Recommended</b> .
<b>Workaround</b>	Firmware versions listed as <b>Critical</b> are Recommended versions. Firmware versions listed as <b>Recommended</b> are Critical versions.
<b>Systems affected</b>	All system supported by this release.
<b>Tracking number</b>	101676

# Unable to set time zone to Canada/East-Saskatchewan

<b>Description</b>	If you try to set the time zone to Canada/East-Saskatchewan in iDRAC, an error is displayed stating that the data is incorrect.
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<b>Workaround</b>	The Canada/East-Saskatchewan time zone is obsolete and is replaced by America/Regina. If you have a system with the time zone set to Canada/East-Saskatchewan, reconfigure it to use America/Regina.
<b>Systems affected</b>	All system supported by this release.
<b>Tracking number</b>	101847

## NIC or FC device slot listed in hardware inventory even when disabled in BIOS

<b>Description</b>	For some NIC or FC cards, even when the device slot is disabled in BIOS, the slot may still get listed in the hardware inventory.
<b>Workaround</b>	N/A
<b>Systems affected</b>	All system supported by this release.
<b>Tracking number</b>	104535

## Updated EMM firmware version not displayed

<b>Description</b>	The updated EMM firmware version is not displayed on the iDRAC web interface.
<b>Workaround</b>	Reset iDRAC to display the updated EMM firmware version.
<b>Systems affected</b>	All system supported by this release.
<b>Tracking number</b>	105255

## Controller or EMM status degraded after PowerEdge MX5016s firmware upgrade

<b>Description</b>	Controller/EMM Status may be displayed as 'Degraded' after the PowerEdge MX5016s storage sled firmware is upgraded.
<b>Workaround</b>	Reset iDRAC.
<b>Systems affected</b>	All system supported by this release.
<b>Tracking number</b>	105256

## Unable to restore iDRAC configuration and firmware

<b>Description</b>	A restore operation may not restore iDRAC configuration and iDRAC firmware.
<b>Workaround</b>	Retry the restore operation to successfully restore the configuration and firmware.
<b>Systems affected</b>	All system supported by this release.
<b>Tracking number</b>	108114

# Limitations

## Authentication

- LC supports the following characters for username and password:
  - Alphabets (a-z, A-Z)
  - Numbers (0-9)
  - Special characters (-, \_, .)
- If you set a user with only SHA256 password, for example, through SCP, you cannot delete the user using the web interface. To delete such a user, edit the user explicitly setting a password and then try to delete the user.
- If there are no slots available to add a new user in iDRAC, the Group Manager Job for **Add New User** shows a failure with error GMGR0047. Use the web interface (**iDRAC Settings > Users**) to verify the number of iDRAC local users.
- If the user does not exist on a specific iDRAC, Group Manager Jobs for **Change User Password** and **Delete User** show a failure with error GMGR0047. Use the web interface (**iDRAC Settings > Users**) to verify that the user exists.

## Automation — API and CLI

- Sometimes, when using WSMAN, an Internal SSL Error is reported and the WSMAN command fails. If this issue occurs, retry the command.
- Using WSMAN, the attribute `LCD.ChassisIdentifyDuration` cannot be set to `-1` (`indefinite blink`). To make the LED blink indefinitely, use the `IdentifyChassis` command with `IdentifyState=1`.
- RACADM supports the underscore character (`_`) for `iDRAC.SerialRedirection.QuitKey` along with the existing symbols shown in the integrated help.
- Using remote RACADM, if you use the `racadm hwinventory export` command to export the hardware inventory using an incorrect CIFS share, an incorrect message is displayed: `RAC930 : Unable to export the hwinventory`. If the issue persists, restart iDRAC and retry the operation after iDRAC has finished restarting.
- If iDRAC is in lockdown mode and you run the command `'racadm rollback'`, followed by the command `'racadm resetcfg'`, an incorrect message is displayed: `ERROR: A firmware update is currently in progress. Unable to reset the RAC at this time`. Reboot iDRAC to display the correct error message.
- While using a **Top** or **Skip** command, if you enter a value greater than the unsigned long type (4,294,967,295), you may get an incorrect error message.
- You cannot use the FQDD of iDRAC (`iDRAC.Embedded.1`) when changing iDRAC mode from Shared LOM to Dedicated.

## BIOS and UEFI

- When setting the iDRAC Service Module (ISM) monitoring attributes from the web interface, if the BIOS watchdog timer is enabled, an error may be displayed but the attributes are set. To avoid the error, disable the BIOS watchdog timer or disable the ISM Auto System Recovery and then apply the attributes.

## Firmware and driver update

- After an iDRAC reset or firmware update operation, the `ServerPoweredOnTime`—a property in RACADM and WSMAN—may not be populated until the host server is restarted.
- Some of the supported components may not be displayed on the **Firmware Update > View Current Versions** page. To update this list, restart the system.
- If the iDRAC firmware update is interrupted, you may have to wait up to 30 minutes before attempting another firmware update.

- 4 Firmware update is supported only for LAN on Motherboards (LoM), Network Daughter Cards (NDC), and network adapters from Broadcom, QLogic, and Intel, and some of the QLogic and Emulex fiber channel cards. For the list of supported fiber channel cards, see version 3.20.20.20 Lifecycle Controller User's Guide available at [www.dell.com/idracmanuals](http://www.dell.com/idracmanuals).
- 5 After the CPLD firmware is updated on modular systems, the firmware update date is displayed as 2000-01-01 on the View Current Versions page. The update date and time is displayed according to the time zone configured on the server.
- 6 On some modular systems, after a firmware update, the Lifecycle Log displays the time-stamp as 1999-12-31 instead of the date on which the firmware update was performed.
- 7 It is not recommended to perform CPLD update along with other updates. If a CPLD update is uploaded and updated along with other updates using iDRAC web interface, CPLD update completes successfully but the other updates do not take effect. To complete the iDRAC updates, reinitiate the updates.

## Hardware

- 1 In LC, not all the vendor FC cards are supported for VLAN configuration.

## iDRAC and LC firmware

- 1 Due to known limitations in OpenSource (SFCB), query filtering with long integers and lengthy strings may not work as expected.
- 2 LC can import and view an iDRAC license but cannot export or delete the iDRAC license. The iDRAC license can be deleted from iDRAC web interface.
- 3 The iSCSI offload attribute can be enabled only on two of the four available ports. If a card, which has this attribute enabled on two of its ports, is replaced with another card that has the attribute enabled on the other two ports, an error occurs. The firmware does not allow the attribute to be set because it is already set on the other two ports.

## Monitoring and alerting

- 1 The inventory displayed in LC UI may not be the same as that of any iDRAC interfaces. To get the updated inventory, run CSIOR, wait for 2 minutes, reboot the host, and then check the inventory in LC UI.
- 2 In certain cases, Group Manager Jobs view may not show a detailed error message for a member iDRAC job. For more information about the failure, review the job execution details in the Lifecycle Logs of the member iDRAC by using the web interface (**Maintenance > Lifecycle Log**) or by using the RACADM command `racadm lalog view`.
- 3 PCIe SSDs in NVMe RAID mode may not display the updated state due to predicted failure. To update RAID-related information, ensure that a CSIOR is performed.

## Networking and IO

- 1 While performing any network operation, LC may go into an infinite loop if there are network glitches, leaks, or packet loss. Restart LC and retry the operation with the correct NFS share name details.
- 2 If NPAR is enabled, LC might show unexpected behavior when configuring network settings. Disable NPAR and execute the network setting configurations. To disable the NPAR option, go to **System Setup > Device Setting**.
- 3 When NPAR is enabled, the port numbers displayed on the LC **Network Settings** page (**Settings > Network Settings**) do not match the port numbers displayed on the **Device Settings** page (**System Setup > Advanced Hardware Configuration > Device Settings**).
- 4 When Virtualization Mode is set to NPAR for network adapters that support the partitioning feature, *PartitionState* attribute can only be used for checking the state of partitions created for base partition in WSMAN enumeration. You can see the states of all the partitions by pressing F2 during POST and going to **Device Setting**.
- 5 The process of retrieving IPv6 address from the DHCP server with VLAN connection takes a few minutes. Wait for a few minutes and check the **Network Settings** page to view the assigned IPv6 address.
- 6 Network operations such as Update, Export, or Import may take more time than expected. The delay may occur because the source or destination share is not reachable or does not exist, or due to other network issues.
- 7 LC does not support SOCK4 proxy with credentials.
- 8 LC UI supports share names and file paths that are up to 256 characters long. However, the protocol you use may only allow shorter values for these fields.
- 9 Because of internal UEFI network stack protocol implementation, there may be a delay while opening the LC UI **Network Settings** page or while applying the network setting.
- 10 Before performing any network operations, verify that the network is configured with the network cable connected. In some scenarios, a warning message may not be displayed but the operation may fail. Following are some examples that may lead to failure:

- Static IP is configured without the network cable being connected.
  - Network cable is disconnected.
  - After a Repurpose and Retire operation is performed.
  - Network is configured with the network cable connected but the network card is replaced later.
- 11 Any changes to the network settings in iDRAC take effect after 30 seconds. Any automation or user verification needs to wait for 30 seconds before verifying the new settings. iDRAC returns the old active value until the new values take effect. Any DHCP settings may take more time (>30 seconds) depending on the network environment.
- 12 When trying to save network details using the Network Configuration page of LC UI, the following error message may be displayed: `Unable to save the IPvX network settings, where X is the version of IP (IPv4 or IPv6)`. The following could be one reason for this error:
- On the Network Settings page of Lifecycle Controller GUI, the IP Address Source for both IPv4 and IPv6 is either DHCP or Static and DHCP is selected by default. So, even if you want to use only one version of IP address, LC tries to validate both versions, and displays an error if the network details for the unintended version cannot be validated.
- If the error does not apply to the IP version you are using, click OK to close the error message. All the other settings that you configured are saved. You can either click Cancel or Back to navigate away from the Network Settings page.
- 13 When shared LOM mode is active, and if the network cards are under heavy network traffic or utilization, it may take longer than usual to upload a file or a DUP to iDRAC. If you face any issues, try the operation when the network utilization is lower.

## OS deployment

- 1 Windows operating system deployment may intermittently fail with the following error message:
- ```
A required CD/DVD drive device driver is missing. If you have a driver floppy disk, CD, DVD, or USB drive, please insert it now.
```
- Reboot to LC and retry until the operating system is successfully deployed.
- 2 Deployment of Windows Server operating systems (OS) using LC may fail with one of the following messages:
- Windows installation cannot continue because a required driver could not be installed
  - Product key required
  - Windows cannot find the software license terms
- This issue occurs when the Windows setup copies the driver to the scratch space (X: drive) and the scratch space becomes full. 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. For more details, see Microsoft's documentation.
- 3 LC displays two drive names for some CDs or DVDs, such as the ones containing operating systems.
- 4 If the operating system (OS) selected for installation and the OS on the media used are different, LC displays a warning message. However, while installing Windows OS, the warning message appears only when the bit count (x86 or x64) of the OS does not match. For example, if Windows Server 2008 x64 is selected for installation and Windows Server 2008 x86 media is used, the warning is displayed.
- 5 LC does not support OS deployment on Dell Precision Workstation R7920.

## Security

- 1 iDRAC features cannot access CIFS or Samba shares when only SMBv1 protocol is enabled. All iDRAC features work with SMBv2 protocol. For information on enabling SMBv2 protocol, see the documentation for your operating system.
- 2 By default, LC uses SMBv1 protocol and all LC features that use CIFS share fail if SMBv1 is disallowed on Windows/Samba mounts. To use CIFS shares, enable SMBv1 on the system where the share is located. This, however, may lower your system's security. To retain security and compatibility, it is recommended to upgrade your Samba server to version 4.0 or later, which supports SMBv2 protocol.
- 3 Cryptographic Erase operation is not supported for hot-plugged NVMe disks. Reboot the server before starting the operation. If the operation continues to fail, ensure that CSIOR is enabled and that the NVMe disk is qualified by Dell EMC.

# Storage and storage controllers

- 1 While renaming a virtual disk (VD), using a . (period) is not allowed in the VD name.
- 2 Sometimes, when performing vFlash operations, an unexpected error is reported and the vFlash operation fails. If this issue occurs, retry the command.

# SupportAssist and parts replacement

- 1 Part-replacement of BOSS-S1 controller is not detected by Lifecycle Controller. After replacing the controller, follow the instructions in the controller's documentation.

# Miscellaneous

- 1 You may be unable to scroll using the keyboard. Use the mouse to scroll.
- 2 Due to a limitation of Google Chrome browser, HTML5 virtual console intermittently displays the following error message:  
`Chrome ran out of memory while trying to display the webpage.`
- 3 When accessing the iDRAC web interface for the first time using Google Chrome version 59.0, the mouse pointer may not be visible. To display the mouse pointer, refresh the page or use Google Chrome version 61.0 or later.
- 4 If you use the HTML5 plug-in on Chrome version 61.0 to access Virtual Console, you cannot connect to Virtual Media. To connect to Virtual Media using the HTML5 plug-in, use Chrome version 63 or later.
- 5 When using Internet Explorer or Google Chrome to access the HTML5 virtual console from a Windows OS, the floating menu at the top of the window may not be displayed. Use Mozilla Firefox to view the menu.
- 6 Launching Virtual Console with Java plug-in fails after the iDRAC firmware is updated. Delete the Java cache and then launch the virtual console.
- 7 A Serial-On-Lan (SOL) session that has been active for more than five days or multiple reboots may get terminated automatically. If the session terminates, you must reinitiate the session.

# Updating iDRAC firmware

## Downloading iDRAC firmware installation file

① **NOTE:** For information about updating iDRAC firmware using various interfaces, see version 3.20.20.20 iDRAC User's Guide available at [www.dell.com/idracmanuals](http://www.dell.com/idracmanuals).

- 1 Go to [www.dell.com/support](http://www.dell.com/support).
- 2 In the **Enter a Service Tag, Serial Number...** field, type the Service Tag or the model number of your server, and press Enter or click the search icon.
- 3 On the product support page, click **Drivers & downloads**.
- 4 Select the appropriate operating system.
- 5 From the list, locate the iDRAC entry and click the download icon.

## Updating iDRAC firmware from host OS

From the host operating system, execute the installation package that you downloaded and follow the instructions of the update wizard. For more information about opening executable files on your system, see the operating system's documentation.

## Updating iDRAC remotely using iDRAC web interface

You can remotely update the firmware from the management stations using the iDRAC web interface.

- 1 Extract the self-extracting installation package to the management station.
- 2 Access the iDRAC web interface using a supported web browser.
- 3 Log in as an administrator.
- 4 Click **Maintenance > System Update**.  
The **Manual Update** page is displayed.
- 5 Select **Local** to upload the firmware image from the local system.
- 6 Click **Browse**, select the .d9 file that you extracted or the Dell Update Package for Windows, and click **Upload**.
- 7 Wait for the upload to complete. After the upload is complete, the **Update Details** section displays the uploaded file and the status.
- 8 Select the firmware file and click **Install**.  
The message `RAC0603: Updating Job Queue` is displayed.
- 9 To view the status of the firmware update, click **Job Queue**.

After the update is complete, iDRAC restarts automatically.

# Lifecycle Controller Remote Services — client tools

## OpenWSMAN CLI

OpenWSMAN CLI is an open source Linux WSMAN client. You can use OpenWSMAN CLI to send WSMAN commands to Lifecycle Controller.

OpenWSMAN CLI source code and installation details are available at [sourceforge.net/projects/openwsman/files/wsmancli](https://sourceforge.net/projects/openwsman/files/wsmancli).

Sample OpenWSMAN CLI Command for an 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 WSMAN commands do not work without these options: -c, -v, and -V. See the OpenWSMAN CLI Readme for details about these options.

## Resources and support

For more information about the features of this release, see the documentation for iDRAC 3.20.20.20.

### Latest Release Notes

To access the latest Release Notes for this version of iDRAC:

- 1 Go to [www.dell.com/idracmanuals](http://www.dell.com/idracmanuals).
- 2 Click the link for this version of iDRAC.
- 3 Click **Manuals & documents**.

### Accessing documents using direct links

You can directly access the documents using the following links:

**Table 1. Direct links for documents**

| URL                                                                                    | Product                             |
|----------------------------------------------------------------------------------------|-------------------------------------|
| <a href="http://www.dell.com/idracmanuals">www.dell.com/idracmanuals</a>               | iDRAC and Lifecycle Controller      |
| <a href="http://www.dell.com/cmcmmanuals">www.dell.com/cmcmmanuals</a>                 | Chassis Management Controller (CMC) |
| <a href="http://www.dell.com/esmmanuals">www.dell.com/esmmanuals</a>                   | Enterprise System Management        |
| <a href="http://www.dell.com/serviceabilitytools">www.dell.com/serviceabilitytools</a> | Serviceability Tools                |
| <a href="http://www.dell.com/omconnectionsclient">www.dell.com/omconnectionsclient</a> | Client System Management            |

### Accessing documents using the product search

- 1 Go to [www.dell.com/support](http://www.dell.com/support).
- 2 In the **Enter a Service Tag, Serial Number...** search box, type the product name. For example, PowerEdge or Integrated Dell Remote Access Controller.  
A list of matching products is displayed.
- 3 Select your product and click the search icon or press enter.
- 4 Click **Manuals & documents**.

### Accessing documents using product selector

You can also access documents by selecting your product.

- 1 Go to [www.dell.com/support](http://www.dell.com/support).
- 2 Click **Browse all products**.
- 3 Click the desired product category, such as Servers, Software, Storage, and so on.
- 4 Click the desired product and then click the desired version if applicable.

 **NOTE:** For some products, you may need to navigate through the subcategories.

5 Click **Manuals & documents**.

## Contacting Dell EMC

Dell EMC 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 EMC for sales, technical support, or customer service issues, see [www.dell.com/contactdell](http://www.dell.com/contactdell).

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