Lifecycle Controller 2
Version 1.3.0

Release Notes

Release Type and Definition

Lifecycle Controller 2

An out-of-band mechanism for configuring the platform, applying firmware updates, saving a system inventory, or deploying an operating system, either by using a GUI or a remote scripting language. Lifecycle Controller 2 GUI provides advances embedded systems management and is delivered as part of Integrated Dell® Remote Access Controller 7 (iDRAC7) version 1.50.50. The GUI enables remote systems management in a one-to-one method.

Version

Lifecycle Controller 2 version 1.3.0

Release Date

December 2013

Previous Version

Lifecycle Controller 2 version 1.1.5

Importance

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).

Platform(s) Affected

LC2 is supported on the following systems:
- PowerEdge T320
- PowerEdge R320
- PowerEdge T420
- PowerEdge R420
- PowerEdge M420
- PowerEdge R520
- PowerEdge M520
- PowerEdge T620
- PowerEdge R620
- PowerEdge M620
- PowerEdge R720
- PowerEdge R720xd
- PowerEdge R820
- PowerEdge M820
- PowerEdge VRTX M620
- PowerEdge VRTX M520

What is Supported?

License Requirements

- Software licensing has replaced hardware licensing. For more information, see the *iDRAC7 User's Guide*, available at dell.com/support/manuals.
- Many features in Lifecycle Controller are licensed. You must install the required license to use these features. For more information, see the **Introduction** section in the *Lifecycle Controller 2 1.3 User's Guide*, available at dell.com/support/manuals.

Supported Systems and Operating Systems

- For a list of supported systems, contact your service provider.
- For a list of PowerEdge servers and operating systems that can be deployed on the target systems, contact your service provider.
- For more information about supported versions of VMware ESX and ESXi on PowerEdge servers, contact your service provider.

Supported Web Browsers

Not applicable

What's New?

- Support for the new operating systems. For a list of supported operating systems, contact your service provider.
- iDRAC License Management
- Automatic system restore & manual programming of Service tag
- Update Identity Module firmware
- Catalog version details displayed on the **Firmware Update** page
- VLAN support
- Full export of Lifecycle log
- Keyboard and navigation enhancements
- GUI enhancements
- FQDD names in hardware inventory
- PERC9 support
- Unattended OS installation support for Windows
- 64-bit Dell update package support in Catalog Update
- Inventory and firmware update support for PCIe SSD
- Configuration and firmware update support for Mellanox cards
  - o   Mellanox ConnectX-3 Dual Port 10 GbE KR Blade Mezzanine Card
  - o   Mellanox ConnectX-3 Dual Port 10 GbE DA/SFP+ Network Adapter
  - o   Mellanox ConnectX-3 Dual Port 40 GbE QSFP+ Network Adapter

Fixes

BITS097209	ES Phase2: RSOD observed after uploading Q4 driver pack.
BITS100375	LC2 1.3.0.734 not showing or updating both Mellanox Ethernet Adapters.
BITS108046	Espd1.4: Intel Firmware Update is unsuccessful for Intel(R) Ethernet 10G 2P X540-t Adapter from LC.
BITS103475	LC2: The LC **Lanuch Firmware Rollback** page is not responding. However, this operation is successful in the for X36 & X37 LC Build.
BITS098887	Aqua (STOMP): Maser partitions are being exposed under local Drive/USB in LC.
BITS101838	LC 2: System stops responding during RAID creation in Equinox server.
BITS085363	LC 2: 4K sector drives are not listed on RAID Configuration page.
BITS085344	<LC2 ESPADA 1.4>Unable to configure DHCP using LC Network Settings for Mellanox Network Adapter.
BITS091706	Rollback not supported for PCIe SSD.
BITS086175	LC 2: Unable to create RAID 10 with PERC9 controller.
BITS085346	LC 2: CPU Exception error during RAID creation.
BITS090187	<USC ESPADA 1.4><PCIeSSDUpdate> Firmware Update stops responding when tried to update from A-rev to latest FW.
BITS092488	BCM FW could not be updated through LC.
BITS092610	ES1.4-P2: LC doesn't list pre-existing Vdisks on RAID configuration page with PERC9 on equinox.
BITS092609	ES1.4-P2: Unable to create RAID on H810 control through LC.
BITS077773	LC2: LC was not showing the message to program Service tag using VFlash or manually configure ServiceTag.
BITS078060	LC 2: Unable to import Server Profile from USB and CIFS
BITS067504	LC2: LC displays the multiple error messages after clicking **Update Using Catalog only**.
BITS076404	LC 2: LC stops responding completely after clicking **Launch Firmware Update** link after exiting the **Configuration wizard** page.
BITS054105	GCrypt replacement with OpenSSL
BITS077420	ES1.4: Import Server Profile stops functioning while validating backup image file in LC.
BITS072355	<LC2><License Import>: License don't get imported when license is kept in a folder in USB/NW Share
BITS078919	LC 2: Unable to create RAID multiple times
BITS071633	<LC2><View License>: **View License Information** throws critical error after uploading multiple licenses.
BITS066596	Failure of HiiDatabase.efi is seen while performing LCL export

	(on CIFS share) through LC GUI.
BITS072349	<LC2><View License>RSOD when the **License Information** link on the **About** page is clicked multiple times.
BITS071031	LC2: Demo comments on VLAN support-2/28.
BITS079114	LC 2: PM DUP update is unsuccessful indicating that the DUP is not supported.
BITS078683	LC2: LC should fetch latest Catalog file from ftp.dell.com and also check the Catalog folder first.
BITS070158	LC2: LC should show the Catalog Version when user performs update from ftp.dell.com
BITS073175	Espada1.4-Updates: NIC updates time out with LC or the iDRAC GUI & CPU Exception error is in LCL.

Important Notes

- The drivers exposed by Lifecycle Controller are present in a read-only hard disk drive, labeled OEMDRV, which are active for 18 hours. During this period:
  - You cannot update any DUP.
  - Lifecycle Controller cannot invoke CSIOR.

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

- To log the update events in the Lifecycle Log, make sure that the installed versions of Lifecycle Controller and iDRAC are from the same release.
- If Lifecycle Controller and iDRAC are not from the same release, the Lifecycle Log displays blank messages and messages with a "~" character.
- CPLD firmware update has no impact on Trusted Platform Module enablement.
- On the basis of virtual storage device type attached through iDRAC, that is, USB drive or CD/.ISO file, Lifecycle Controller will display Virtual Floppy or Virtual CD respectively.

Known Issues

Issue 1

Description

If FlexAddress is enabled on Chassis Management Controllers, iDRAC and Lifecycle Controller do not display the same MAC addresses.

Resolution

To view the chassis-assigned MAC address, use the iDRAC Web interface or the CMC Web interface. Go to **General**-> **Network Settings**.

Versions Affected

All the LC2–supported Dell PowerEdge servers.

Issue 2

Description

Deployment of Windows operating system may intermittently stop 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 flash drive, please insert it now.
```

Resolution (only for logging on to iDRAC7 Web interface)

```
Restart Lifecycle Controller and retry until the operating system is successfully
deployed.
```

Versions/Systems Affected

Lifecycle Controller 2 version 1.3.0

Issue 3

Description

While deploying Windows Server 2008 R2 SP1 from OS Deployment of Lifecycle Controller, installation stops with the following error:

```
There is no disk in the drive. Please insert a disk into drive \Device\Harddisk0\DR0.
```

This issue may occur due to any of the following reasons:

- Virtual Media is in the attached state and a media is not mapped.
- Virtual Media is in the auto-attached state and a media is not mapped.
- Virtual Media being presented by the AVCT SIP and Virtual Media from iDRAC7 in the detached state.
- Due to failure to load drivers for RAID controllers on the system.

NOTE: It does not occur with Virtual Media in the detached state. It also does not occur without the SIP and with Virtual Media in the detached from iDRAC7.

Resolution

Retry the operation.

Versions/Systems Affected

Lifecycle Controller 2 version 1.3.0

Issue 4

Description

Some of the supported components are not displayed on the **Firmware Update**-> **View Current Versions** page.

Resolution

Restart the server and open the **View Current Versions** page.

Versions/Systems Affected

Lifecycle Controller 2 version 1.3.0

Issue 5

Description

If a Mellanox card is present in the system, then under **Network Settings**, the port number must be displayed as **Port 1** and **Port 2**, because it is a dual port. But, the port number is displayed as **Port 1** for both the ports or the port numbers are not displayed.

Resolution

To distinguish between the port numbers, see the MAC address or the Device Settings.

You can access **Device Settings** in the following methods:

- During POST, press <**F2**>, and then click **System Setup**.
- On the Lifecycle Controller **Home** page, click **System Setup**, and then click **Advanced Hardware Configuration**.

Versions/Systems Affected

Lifecycle Controller 2 version 1.3.0

Issue 6

Description

After you successfully update the firmware of a CPLD on a modular server, and then perform a firmware update operation of a component that requires a system restart (such as BIOS), the server is automatically and repeatedly restarted.

Resolution

Perform a Power Cycle operation on the server.

Versions/Systems Affected

Lifecycle Controller 2 version 1.3.0

Limitations

Limitation 1

Description

The following characters are supported for 'User Name' and 'Password':

- Digits (0–9)
- Alphanumeric (a–z, A–Z)
- Hyphen (-)

Note: For 'Domain Name', a period (.) is allowed. For example, 'x123.com'.

Versions/Systems Affected

Lifecycle Controller 2 version 1.3.0

Limitation 2

Description

While updating iDRAC firmware using a tool other than Lifecycle Controller, Lifecycle Controller must not be open or running, because it results in an unknown behavior. Use Lifecycle Controller after the firmware is successfully updated.

Versions/Systems Affected

Lifecycle Controller 2 version 1.3.0

Limitation 3

Description

If the iDRAC firmware update is interrupted for any reason, wait for 30 minutes before attempting another firmware update.

Versions/Systems Affected

Lifecycle Controller 2 version 1.3.0

Limitation 4

Description

Only Windows operating system can be deployed on systems with a software RAID controller.

Versions/Systems Affected

Lifecycle Controller 2 version 1.3.0

Limitation 5

Description

Firmware update is supported only for LAN On Motherbaords, Network Daughter Cards, and network adapters from Broadcom, QLogic, and Intel, and some of the Qlogic and Emulex fiber channel cards. For the list of components that can be updated, see the *Lifecycle Controller 2 User's Guide*, available at dell.com/support/manuals.

Versions/Systems Affected

Lifecycle Controller 2 version 1.3.0

Limitation 6

Description

After the CPLD firmware is updated on modular servers, on the View Current Versions page, under Firmware update, the firmware update date is displayed as 2000-01-01, regardless of the actual update date. The updated date and time is displayed on the basis of time zone that is configured on the server.

Versions/Systems Affected

Lifecycle Controller 2 version 1.3.0

Limitation 7

Description

Lifecycle Controller does not support firmware update for Intel Ethernet X520 10GBE Dual Port KX4 Mezzanine Card.

Versions/Systems Affected

Lifecycle Controller 2 version 1.3.0

Limitation 8

Description

Rollback is not supported for CPLD.

Versions/Systems Affected

Lifecycle Controller 2 version 1.3.0

Limitation 9

Description

On some modular systems, after a firmware update, the Lifecycle Log displays the date in the time stamp as 1999-12-31, instead of the date on which firmware update was performed.

Versions/Systems Affected

Lifecycle Controller 2 version 1.3.0

Limitation 10

Description

Some properties related to devices installed in PowerEdge VRTX system are not displayed while viewing the current hardware inventory.

Versions/Systems Affected

Lifecycle Controller 2 version 1.3.0

Limitation 11

Description

Lifecycle Controller can import and view an iDRAC license, but it cannot export or delete the iDRAC license.

Versions/Systems Affected

Lifecycle Controller 2 version 1.3.0

Limitation 12

Description

The ISCSI offload feature can be enabled only on two of the available four ports. If the ISCSI offload attribute is enabled on a card, and is replaced by another card whose ISCSI offload mode is also enabled on the other two ports, an error is thrown. The Firmware will not allow the attribute to be set, because it is already set on the other two ports.

Versions/Systems Affected

Lifecycle Controller 2 version 1.3.0

Limitation 13

Description

The unattended OS (operating system) installation feature is not supported for the Microsoft Windows Server 2012 R2.

Versions/Systems Affected

Lifecycle Controller 2 version 1.3.0

Limitation 14

Description

Windows OS supports both the manual installation and unattended installation features. However, LINUX OS supports only the manual installation feature.

Versions/Systems Affected

Lifecycle Controller 2 version 1.3.0

Limitation 15

Description

In Lifecycle Controller, all the vendor FC cards are not supported for VLAN configuration.

Versions/Systems Affected

Lifecycle Controller 2 version 1.3.0

Limitation 16

Description

Lifecycle Controller displays two drive names for some CDs or DVDs—such as the one containing operating systems.

Versions/Systems Affected

Lifecycle Controller 2 version 1.3.0

Installation

Prerequisites

iDRAC7 version 1.50.50

Installation Instructions

For information about installation, see the *Lifecycle Controller 2 User's Guide*.

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.

For information about documentation support:

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, Monitors, Electronics & Peripherals**.
4. In the **Choose your Dell Software, Monitors, Electronics & Peripherals** section, click **Software**.
5. 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
6. To view the document, click the required product version.

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

   - For Client System Management documents — **dell.com/OMConnectionsClient**
   - For Enterprise System Management documents — **dell.com/openmanagemanuals**
   - For Remote Enterprise System Management documents — **dell.com/esmmanuals**
   - For Serviceability Tools documents — **dell.com/serviceabilitytools**