

**BIOS Version 1.4.9 for
Dell EMC PowerEdge
Servers: R740, R740XD,
R640, and R940.**

**And for Dell Precision
7920 Rack workstation**

Release Notes



Release Notes

BIOS

Basic Input / Output System (BIOS) facilitate the hardware initialization process and transition control to the operating system.

Current Version

1.4.9

Release Date

July 2018

Previous Version

1.4.8

Release Summary

Relaxed the PCIe link training issues from Critical to Warning status. Fixed an issue in certain PCIe cards where the system stopped responding and the following message is displayed: Loading BIOS Drivers. Fixed an issue where the Collect System Inventory (CSIOR) operation stops responding after the iDRAC9 remote file share disruption. For more information about specific items newly added and resolved in this version, see the **New and enhanced features** section and **Fixed issues** section in this Release Notes.

Priority and recommendations

RECOMMENDED: Dell EMC 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 devices and platforms

The PowerEdge R740, R740XD, R640, and R940 servers. Also, for the Precision 7920 Rack workstation.

New and enhanced features

None for this release.

Fixed issues (this release)

- Relaxed the PCIe link training issues from Critical to Warning status. This provides an option to allow the system to boot.
- Fixed an issue in certain PCIe cards where the system stopped responding and the following message is displayed: Loading BIOS Drivers.
- The Collect System Inventory (CSIOR) operation stops responding after the iDRAC9 remote file share disruption.

Known issues

None for this release.

Important notes

This release provides continued code optimization to improve stability and performance.

Features and fixes in previous releases

Version: 1.4.8

Release Date: May 2018

What's New

- Enhancement to address security vulnerability CVE-2018-3639 (<https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2018-3639>).
- Enhancement to address security vulnerability CVE-2018-3640 (<https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2018-3640>).
- Updated the Intel Xeon Processor Scalable Family Processor Microcode to version 0x4D.

Fixes

None for this release.

Version: 1.4.5

Release Date: April 2018

What's New

- Added a check to prevent BIOS downgrade when 18nm DIMMs are installed in 2 DPC (DIMMs per Channel) configuration and memory frequency is 2666 Mhz or higher. For more information, visit <http://www.dell.com/support/article/QNA44339>.
- Added support for HDD and USB placeholders in UEFI Boot Sequence.
- Added UEFI Capsule Firmware (BIOS only) Update Support by using O/S update service such as Windows update. This feature is available only for Precision 7920 Rack workstations.
- Log NVDIMM-N erase failure to SEL (System Event Log).
Note: This error is already logged to Lifecycle Controller log.
- Added capability to re-enable a disabled PCIe clock after a warm reboot.
- Added enhancements to UEFI BIOS update tool. Users cannot use UEFI BIOS update utilities to downgrade BIOS to earlier version once the 1.4.5 or later BIOS version is installed on the system.
Note: Update Package can still be used to downgrade BIOS to versions earlier than 1.4.5.
- Updated the Intel Trusted Execution Technology (Intel TXT) BIOS Authenticated Code Module (ACM) to version 1.3.5.
- Updated the Intel Processor and Memory Reference Code to PLR5.

Fixes

- An unsuccessful NVDIMM-N firmware update may be reported as successful.
- TPM region is not reserved in the E820 table.
- When specific 4-core CPUs are installed, the system stops responding during the NVDIMM-N firmware update operation.
- Updated the IP4 stack to support point-to-point link with the 31-bit mask.
- Able to set 'System Password' in HII when the 'System Lockdown Mode' is enabled.

Instructions for installing

1. Click www.dell.com/support.
2. Navigate to the **Drivers & downloads** page of the respective PowerEdge servers or Dell Precision 7920 Rack workstation.
3. From the **Category** drop-down menu, select **BIOS**.
4. In the **Name** column, expand the hyperlinked BIOS title to view complete information.
 - a. To view information about earlier versions, click **Older versions**.
5. To view information about compatible systems and installation instructions, click **View full driver details**.
6. On the **Driver Details** page, scroll down and expand **Installation instructions**.
Instructions about downloading and installing Update Packages by using methods such as DRMK, EFI, Linux, and Windows is displayed.

Additional resources and support

Contacting Dell EMC

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

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, go to <https://www.dell.com/contactdell>.

Accessing documents from Dell EMC support site

Using direct links

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

www.dell.com/support	The Dell EMC support site
www.dell.com/poweredgemanuals	The Dell EMC PowerEdge server documentation
www.dell.com/idracmanuals	The iDRAC and Lifecycle Controller documentation

Using the product selector

You can also access documents by selecting your product:

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