Release Type and Definition

BIOS

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

Version:

02.01.05

Release Date:

April, 2016

Previous Version

02.00.03

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

Dell PowerEdge T630 servers

Enhancements

- Updated the Intel Xeon Processor E5-2600 v3 Product Family Processor Microcode to 0x37.
- Updated the Intel Management Engine (ME) firmware to SPS_E5_03.01.03.030.0_WBG_REL.
- Updated the Intel® Trusted Execution Technology (Intel® TXT) BIOS and SINIT Authenticated Code Module (ACM) to version v3.0.5.
- Added support to JEDEC serial present detect (SPD) 1.1.
- Added support for memory module with 128 GB DIMM size.
- Updated text in the BIOS Setup Menu help content.
Fixes

- Intermittent PCIe slot training errors.
- While rebooting, server that used E5-2603 or 2609 processor (6-core Low Core Count (LCC) processor) displayed the Red Screen of Death (RSOD) error.
- After importing a platform key, the Secure Boot feature is forced to get enabled.
- Unused DIMM clocks are not disabled for E5-2600 v3 CPU-based system.
- Watchdog timer event log is missing from the ELog and Windows Event Log.
- CPU is not frequently polling the DIMM temperature sensor.
- System cannot boot by using DVD or HDD.
- During the POST stage on the console redirection, an option to press the F12 key is not displayed on the monitor.

Important Notes

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History of Previous Release Notes

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Version
02.00.03

Release Date:
March, 2016

Previous Version
02.00.02

- Updated the Intel Processor and Memory Reference Code to MR2.
- Added support for Intel Xeon processor E5-2600 V4 Product Family processor Microcode to 0x17

Fixes

- None.
Important Notes

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Version
02.00.02

Release Date:
February, 2016

Previous Version
01.05.04

- Updated the Intel processor and memory reference code to version 3.0.0.
- Added support for Intel Xeon processor E5-2600 V4 product family.
- Updated the Intel Management Engine (ME) firmware to SPS_E5_03.01.03.021.0_WBG_REL.
- Updated PERC S130 option ROM (OPROM) and Unified Extensible Firmware Interface (UEFI) drivers to version 4.2.0-0009.
- Added support for a new PM1725 category.
- Improved NVMe version 1.1 export log.
- Updated NVMe UEFI driver to version 2.5.
- Updated to Unified Extensible Firmware Interface (UEFI) 2.4 support.
- Added Global Slot Boot Driver Disable option.

 Fixes

- Fixed an issue where iSCSI boot got disabled when configuration of connection2 setting failed under the UEFI boot mode.
- Fixed the system unexpected issues if running warm reset from iDRAC after BIOS setup change.
- Fixed an issue where mouse device trail is seen while moving cursor quickly in the HII browser.

Important Notes

From this version, users use Intel Xeon processor E5-2600 V3 product family for reverting back to earlier versions of the BIOS.

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Version
01.05.04
Release Date:
October 6, 2015

Previous Version
01.03.06
- Updated the Intel processor and memory reference code to PLR9.1.
- Updated the Intel Xeon processor E5-2600 V3 product family processor microcode to 0x36.
- Updated the Intel Management Engine (ME) firmware version to SPS_E5_03.00.07.173.0_PLR9-G_WBG_REL.
- Added the new I/O Non-Posted Prefetch option in System Setup that can be used to control the PCIe throughput by enabling or disabling the PCI IO non-posted prefetch mode.
- Added the new Form Factor field for NVMe PCIe SSDs in the HII menu.
- Added TPM2 support.

Fixes
- Fixed an issue where sometimes systems with Intel SSD drives freeze at PXE boot.
- Fixed an issue where hotkeys are still available after abnormal exit from Life Cycle Controller.
- Fixed an issue where execution of “Ctrl-p” command fails through Serial-Over-Lan.
- Fixed some HII display issues for NVMe PCIe SSDs in System Setup menu.

Important Notes
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Version
01.03.06

Release Date:
June 8, 2015

Previous Version
01.02.10
- Updated the Intel processor and memory reference code to MR15.
- Updated the Intel Xeon processor E5-2600 V3 product family processor microcode to 0x2E.
• Updated the Intel Management Engine (ME) firmware version to SPS_E5_03.00.07.164.0_MR1-G_WBG_REL.
• Added early error message for unsupported UDIMMs.
• Added iSCSI boot feature.
• Added disabling of unused PCIe clocks for power-saving.
• Added measurements for UEFI Secure Boot in the Trusted Platform Module (TPM) Platform Configuration Register 7 (PCR7).

Fixes

• Removed unused setup options.
• Fixed a rare issue where mouse did not work properly in HII Browser.
• Fixed an issue where incorrect maximum memory was reported in OMSA.
• Fixed an issue where Mellanox network card would not commit PXE boot in UEFI mode on Port 2.
• Added a workaround for a RHEL 7 issue where the users cannot return to BIOS boot manager, on UEFI boot, after grub command line exit.
• Added a workaround for Haswell server system freeze in VT-d.
• Added a BIOS workaround to fix a rare issue where in systems with two processors, the Intel QPI link does not train successfully.
• Fixed an issue where complex PCI products with more than 32 buses fail.
• Fixed an issue where Intel Direct Cache Access (DCA) module fails to start.

Important Notes

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Version
01.02.10

Release Date:
March 16, 2015

Previous Version
01.01.04

• Updated the Intel processor and memory reference code to MR11.
• Updated the Intel Xeon processor E5-2600 V3 product family processor microcode to 0x2D.
• Updated the Intel Management Engine (ME) firmware version to SPS_E5_03.00.07.154.0_MR1-G_WBG_REL.
• Updated the BIOS HII Setup menu as follows:
  o “Processor Settings” page
    • Removed the option to Enable/Disable “ExecuteDisable”. This option is always enabled.
  o “Memory Settings” page
    • Grayed-out Node Interleave when only 1 CPU is installed.
    • Enabled “Home snoop” and “Early snoop” to be selectable when “Node Interleaving” is Enabled.
• Added Workload profile feature.

Fixes

• Fixed NVME device surprise-removal issue.
• Fixed an issue with some complex USB monitors.
• Fixed a console redirection output issue that was not shutting-off when ‘Serial Communication’ is set to ‘OFF’.
• Fixed an issue where the system and mouse are frozen when selecting the “Blink” option while configuring Dell NVMe PCIe SSD under the ‘Device Settings’ HII menu.
• Fixed an issue where system power may exceed Power Cap limits for as much as 8 seconds when input power is lost to one PSU in a redundant PSU configuration.
• Fixed an issue with the System Profile feature, where the configuration options are not applied when changed remotely.

Important Notes

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Version
01.01.04

Release Date:
November 4, 2014

Previous Version
01.00.04

• Updated Intel processor and memory reference code to MR6.
• Updated Intel Xeon processor E5-2600 V3 product family processor microcode to 0x2A.
• Updated Intel Management Engine (ME) firmware version to SPS_E5_03.00.07.141.0_MR1-G_WBG_REL.
• Updated PERC S130 SOFTRAID OEM Version: Option rom (4.0.0-0037) & UEFI OS driver (4.0.0-0037).
• Updated MTRR algorithm to automatically determine the required model (discrete or flat) based on the memory configuration.
• Added NUMA Fault Resilient Memory feature.

Fixes

• Fixed an issue where x2APIC is greyed out but not disabled when Virtualization Technology is disabled.
• Fixed an issue where memory frequency unexpectedly changes under Dense system profile.
• Fixed an issue where LRDIMM memory is lost and multi-bit error is seen during system cold boot.
• Fixed an issue where the system hangs and memory LRDIMM multi-bit error is seen during system warm boot.
• Fixed a memory RDIMM multi-bit error issue.

Important Notes

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Version
01.00.04

Release Date:
Aug 29, 2014

Previous Version
N/A

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