VMware Deliverable Release Notes

Hewlett Packard Enterprise

This document does not apply to HPE Superdome servers. For information on HPE Superdome, see the following links:

HPE Integrity Superdome X
HPE Superdome Flex

Information on HPE Synergy supported VMware ESXi OS releases, HPE ESXi Custom Images and HPE Synergy Custom SPPs is available at:

VMware OS Support Tool for HPE Synergy

Information on HPE Synergy Software Releases is available at:

HPE Synergy Software Releases - Overview

Gen11 SPP 2023.04.00.00 Release Notes for VMware ESXi 8.0

Driver - Lights-Out Management Top

HPE iLO Native Driver for ESXi 7.0
Version: 10.8.0 **(Recommended)**
Filename: ilo-driver_700.10.8.0.6-1OEM.700.1.0.15843807_20300719.zip

Fixes

- Fixed issue where ilo driver is failing to acquire contiguous physical memory below 4GB causing userworld apps like hponcfg to be unable to communicate with iLO.

Enhancements

- Added support for vSphere 8.0

Driver - Storage Controller Top

HPE ProLiant Gen11 Smart RAID Controller Driver for VMware vSphere 8.0 (Bundle file)
Version: 80.4380.0.108 **(Recommended)**
Filename: Microchip-smartpqi_80.4380.0.108-1OEM.800.1.0.20613240_20828555.zip

Enhancements

Gen11 PR2 ,2023 March MSB Usage

Firmware - Network Top

Mellanox Firmware Package (FWPKG) for HPE Ethernet 100Gb 1-port QSFP28 PCIe3 x16 MCX515A-CCAT Adapter : HPE part numbers P31246-B21 and P31246-H21
Version: 16.35.1012 **(Recommended)**
Filename: 16_35_1012-MCX515A-CCA_HPE_Ax.pldm.fwpkg

Important Note!

For PLDM enabled VPI (Virtual Protocol Interconnect) adapters supporting both InfiniBand mode and Ethernet modes, every firmware version is made available in two different formats at HPE.com:

1. HPE signed PLDM Firmware Package (.FWPKG filename extension) updatable via iLO.
2. Firmware binary (.bin filename extension) updatable via mstflint utility from the Operating System.

Choose the appropriate firmware file format based on your preference and what suits your environment.

Disclaimer: Certain software including drivers and documents may be available from NVIDIA. If you select a URL that directs you to http://www.nvidia.com/, you are then leaving HPE.com. Please follow the instructions on http://www.nvidia.com/ to download NVIDIA software or documentation. When downloading the NVIDIA software or documentation, you may be subject to NVIDIA terms and conditions, including licensing terms, if any, provided on its website or otherwise. HPE is not responsible for your use of any software or documents that you download from http://www.nvidia.com/, except that HPE may provide a limited warranty for NVIDIA software in accordance with the terms and conditions of your purchase of the HPE product or solution.

A list of known issues with this release is available

at: https://docs.nvidia.com/networking/display/ConnectX5Firmwarev16351012/Known+Issues

Prerequisites

FWPKG will work only if the firmware version flashed on the adapter is 16.27.1016 or later and iLO5 firmware version must be 2.30 or higher.

Fixes

The following issues have been fixed in version 16.35.1012:

- RDE (Redfish) PATCH operation to LLDPTransmit properties "ManagementAddressIPv4", "ManagementAddressIPv6" and "ManagementAddressMAC" were applied only in the first attempt, but failed in the next.
- PLDM AEN event receiver media was changed unexpectedly and destination BDF was overridden with garbage when some PLDM packet were received from the SMBus layer.
- Bad configuration of number of VFs and SFs led to the consumption of too many functions and triggered a FW assert 0x888E. The reduction flows behavior was fixed to ensure the configuration does not exceed the total number of supported functions.
- InfiniBand L2 QP could not receive RDMA traffic occasionally.
- Running with a debug firmware reduced security as if token was applied.

Enhancements

Important : Security Hardening Enhancements - This release contains important reliability improvements and security hardening enhancements. HPE recommends upgrading your device firmware to this version to improve the firmware security and reliability of your device.

New features and changes included in version 16.35.1012:

- Added support for copy modify header steering action to/from the UDP field.
- Enabled ADP timer to allow the user to configure RC or DC qp_timeout values lower than 16.
- QoS priority trust default state can now be changed using the new nvconfig below:

  QOS_TRUST_STATE_P1
  QOS_TRUST_STATE_P2

  The values that can be used to set the default state are:
  TRUST_PORT
  TRUST_PCP
  TRUST_DSCP
  TRUST_DSCP_PCP

Supported Devices and Features

This software package contains the following firmware versions:

Mellanox Ethernet Only Adapters	Firmware Version	PSID
HPE Ethernet 100Gb 1-port QSFP28 PCIe3 x16 MCX515A-CCAT Adapter(P31246-B21 and P31246-H21)	16.35.1012	MT_0000000591

Firmware - Storage Controller Top

Online ROM Flash Component for VMware ESXi - HPE Smart Array E208e-p SR Gen10 on Gen11 servers
Version: 5.32 (C) **(Recommended)**
Filename: CP053948.compsig; CP053948.zip

Enhancements

- Add Gen11 servers into support list

Firmware - Storage Fibre Channel Top

HPE Firmware Flash for Emulex 32Gb and 64Gb Fibre Channel Host Bus Adapters
Version: 14.0.499.29 **(Recommended)**
Filename: P14.0.499.29_header.pldm.fwpkg

Important Note!

This Firmware package contains following firmware versions:

Adapter	Speed	Universal Boot Image	Firmware	UEFI	Boot Bios
HPE SN1610E 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	14.0.499.29	14.0.499.29	14.0.499.2	14.0.490.0
HPE SN1610E 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	14.0.499.29	14.0.499.29	14.0.499.2	14.0.490.0
HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	14.0.499.29	14.0.499.29	14.0.499.2	14.0.490.0
HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	14.0.499.29	14.0.499.29	14.0.499.2	14.0.490.0

Enhancements

This Firmware package contains following firmware versions:

Adapter	Speed	Universal Boot Image	Firmware	UEFI	Boot Bios
HPE SN1610E 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	14.0.499.29	14.0.499.29	14.0.499.2	14.0.490.0
HPE SN1610E 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	14.0.499.29	14.0.499.29	14.0.499.2	14.0.490.0
HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	14.0.499.29	14.0.499.29	14.0.499.2	14.0.490.0
HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	14.0.499.29	14.0.499.29	14.0.499.2	14.0.490.0

Supported Devices and Features

This component is supported on following Emulex Fibre Channel Host Bus adapters:

32Gb Fibre Channel Host Bus Adapter:

- HPE SN1610E 32Gb Single Port Fibre Channel Host Bus Adapter
- HPE SN1610E 32Gb Dual Port Fibre Channel Host Bus Adapter

64Gb Fibre Channel Host Bus Adapter:

- HPE SN1700E 64Gb Dual port Fibre Channel Host Bus Adapter
- HPE SN1700E 64Gb Single port Fibre Channel Host Bus Adapter

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Software - Management Top

HPE Fiber Channel and Storage Enablement Bundle Smart Component for ESXi 8.0
Version: 2022.09.01 **(Recommended)**
Filename: cp051152.compsig; cp051152.zip

Enhancements

Supports VMware ESXi 8.0

HPE iLO Driver Bundle Smart Component for ESXi 7.0
Version: 2022.09.01 **(Recommended)**
Filename: cp050763.compsig; cp050763.zip

Fixes

- Fixed issue where ilo driver is failing to acquire contiguous physical memory below 4GB causing userworld apps like hponcfg to be unable to communicate with iLO.

Enhancements

- Added support for vSphere 8.0

Software - Storage Fibre Channel Top

HPE QLogic Fibre Channel driver component for VMware vSphere 8.0
Version: 2023.03.01 **(Recommended)**
Filename: cp054352.compsig; cp054352.zip

Important Note!

This component is intended to be used by HPE applications. It is a zip that contains the same driver deliverable available from the vmware.com and the HPE vibsdepot.hpe.com webpages, plus an HPE specific CPXXXX.xml file.

Prerequisites

Please consult SPOCK for a list of supported configurations available at the following link:

http://www.hpe.com/storage/spock/

Enhancements

Driver version 5.3.1.0

Supported Devices and Features

This component is supported on following Qlogic Fibre Channel Host Bus adapters:

32Gb Fibre Channel Host Bus Adapter:

- HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter

64Gb Fibre Channel Host Bus Adapter:

- HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter

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Software - System Management Top

HPE Fiber Channel and Storage Enablement Component for ESXi 8.0
Version: 3.9.0 **(Recommended)**
Filename: fc-enablement-component_800.3.9.0.30-1_20300413.zip

Enhancements

Supports VMware ESXi 8.0

Smart Storage Administrator (SSA) CLI for VMware 8.0
Version: 6.15.11.0 **(Recommended)**
Filename: ssacli2-component_6.15.11.0-8.0.0_20754055.zip

Enhancements

Gen11 PR2 Usage

BIOS (Login Required) - System ROM Top

ROM Flash Universal Firmware Package - HPE ProLiant DL325/DL345 Gen11 (A56) Servers
Version: 1.22_01-19-2023 **(Recommended)**
Filename: A56_1.22_01_19_2023.fwpkg

Important Note!

Important Notes:

None

Deliverable Name:

HPE DL325 Gen11/DL345 Gen11 Server System ROM - A56

Release Version:

1.22_01-19-2023

Last Recommended or Critical Revision:

1.22_01-19-2023

Previous Revision:

1.20_01-06-2023

Firmware Dependencies:

None

Enhancements/New Features:

Add new System Configuration (RBSU) configuration options that allow controlling the processor's P0 (maximum) frequency. This includes the "Custom Pstate0" option with settings of "Auto" (default) and "Manual" and the "Pstate0 Frequency(MHz)" option that allows setting the P0 frequency. When the "Custom Pstate0" option is configured for "Manual", the value of the "Pstate0 Frequency(MHz)" is used for the processor's P0 frequency. When the "Custom Pstate0" option is configured for "Auto", the processor uses its normal, maximum P0 frequency and the "Pstate0 Frequency(MHz)" option is not configurable. In System Configuration (RBSU), these options are located under the BIOS/Processor Options. This setting has the following Redfish properties: /redfish/v1/systems/1/bios/settings/CustomPstate0 /redfish/v1/systems/1/bios/settings/Pstate0Frequency

Remove the System Configuration (RBSU) option for "Memory Interleaving Mode". This option is no longer configurable because AMD recommends always enabling this capability for maximum performance. Memory Interleaving will always be enabled with this revision or later of the System ROM no matter how this option had been previously configured. In System Configuration (RBSU), this option had previously been located under the Memory Options. This setting had the following Redfish properties: /redfish/v1/systems/1/bios/settings/AmdMemoryInterleaving

Problems Fixed:

Addressed an issue where system may hang at POST during TPM measurement after restoring manufacturing defaults.

Address an issue where the RegistryVersion format in the URI redfish/v1/registrystore/registries did not follow the Redfish Specification. If scripts were written to conform with the incorrect format in previous System ROMs, those scripts may need to be modified to follow the correct, Redfish compliant format which is implemented in this System ROM revision and later.

Addressed an issue where the System Configuration (RBSU) option "Access Control Service" did not disable PCIe Access Control Service when it's set to disabled.

Known Issues:

None

Fixes

Important Notes:

None

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where system may hang at POST during TPM measurement after restoring manufacturing defaults.

Address an issue where the RegistryVersion format in the URI redfish/v1/registrystore/registries did not follow the Redfish Specification. If scripts were written to conform with the incorrect format in previous System ROMs, those scripts may need to be modified to follow the correct, Redfish compliant format which is implemented in this System ROM revision and later.

Addressed an issue where the System Configuration (RBSU) option "Access Control Service" did not disable PCIe Access Control Service when it's set to disabled.

Known Issues:

None

Enhancements

Add new System Configuration (RBSU) configuration options that allow controlling the processor's P0 (maximum) frequency. This includes the "Custom Pstate0" option with settings of "Auto" (default) and "Manual" and the "Pstate0 Frequency(MHz)" option that allows setting the P0 frequency. When the "Custom Pstate0" option is configured for "Manual", the value of the "Pstate0 Frequency(MHz)" is used for the processor's P0 frequency. When the "Custom Pstate0" option is configured for "Auto", the processor uses its normal, maximum P0 frequency and the "Pstate0 Frequency(MHz)" option is not configurable. In System Configuration (RBSU), these options are located under the BIOS/Processor Options. This setting has the following Redfish properties: /redfish/v1/systems/1/bios/settings/CustomPstate0 /redfish/v1/systems/1/bios/settings/Pstate0Frequency

Remove the System Configuration (RBSU) option for "Memory Interleaving Mode". This option is no longer configurable because AMD recommends always enabling this capability for maximum performance. Memory Interleaving will always be enabled with this revision or later of the System ROM no matter how this option had been previously configured. In System Configuration (RBSU), this option had previously been located under the Memory Options. This setting had the following Redfish properties: /redfish/v1/systems/1/bios/settings/AmdMemoryInterleaving

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ROM Flash Universal Firmware Package - HPE ProLiant DL365/DL385 Gen11 (A55) Servers
Version: 1.22_01-19-2023 **(Recommended)**
Filename: A55_1.22_01_19_2023.fwpkg

Important Note!

Important Notes:

None

Deliverable Name:

HPE DL385 Gen11/DL365 Gen11 Server System ROM - A55

Release Version:

1.22_01-19-2023

Last Recommended or Critical Revision:

1.22_01-19-2023

Previous Revision:

1.20_01-06-2023

Firmware Dependencies:

None

Enhancements/New Features:

Add new System Configuration (RBSU) configuration options that allow controlling the processor's P0 (maximum) frequency. This includes the "Custom Pstate0" option with settings of "Auto" (default) and "Manual" and the "Pstate0 Frequency(MHz)" option that allows setting the P0 frequency. When the "Custom Pstate0" option is configured for "Manual", the value of the "Pstate0 Frequency(MHz)" is used for the processor's P0 frequency. When the "Custom Pstate0" option is configured for "Auto", the processor uses its normal, maximum P0 frequency and the "Pstate0 Frequency(MHz)" option is not configurable. In System Configuration (RBSU), these options are located under the BIOS/Processor Options. This setting has the following Redfish properties: /redfish/v1/systems/1/bios/settings/CustomPstate0 /redfish/v1/systems/1/bios/settings/Pstate0Frequency
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Problems Fixed:

Addressed an issue where system may hang at POST during TPM measurement after restoring manufacturing defaults.

Address an issue where the RegistryVersion format in the URI redfish/v1/registrystore/registries did not follow the Redfish Specification. If scripts were written to conform with the incorrect format in previous System ROMs, those scripts may need to be modified to follow the correct, Redfish compliant format which is implemented in this System ROM revision and later.

Addressed an issue where the System Configuration (RBSU) option "Access Control Service" did not disable PCIe Access Control Service when it’s set to disabled.

Known Issues:

None

Important Notes:

None

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where system may hang at POST during TPM measurement after restoring manufacturing defaults.

Fixes

Address an issue where the RegistryVersion format in the URI redfish/v1/registrystore/registries did not follow the Redfish Specification. If scripts were written to conform with the incorrect format in previous System ROMs, those scripts may need to be modified to follow the correct, Redfish compliant format which is implemented in this System ROM revision and later.

Addressed an issue where the System Configuration (RBSU) option "Access Control Service" did not disable PCIe Access Control Service when it’s set to disabled.

Known Issues:

None

Enhancements

Add new System Configuration (RBSU) configuration options that allow controlling the processor’s P0 (maximum) frequency. This includes the “Custom Pstate0” option with settings of “Auto” (default) and “Manual” and the “Pstate0 Frequency(MHz)” option that allows setting the P0 frequency. When the “Custom Pstate0” option is configured for “Manual”, the value of the “Pstate0 Frequency(MHz)” is used for the processor’s P0 frequency. When the “Custom Pstate0” option is configured for “Auto”, the processor uses its normal, maximum P0 frequency and the “Pstate0 Frequency(MHz)” option is not configurable. In System Configuration (RBSU), these options are located under the BIOS/Processor Options. This setting has the following Redfish properties: /redfish/v1/systems/1/bios/settings/CustomPstate0 /redfish/v1/systems/1/bios/settings/Pstate0Frequency

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Trademark acknowledgments, if needed.

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