

VMware Deliverable Release Notes

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:

[OS Support Tool for HPE Synergy](#)

Information on HPE Synergy Software Releases is available at:

[HPE Synergy Software Releases - Overview](#)

Gen12 SPP 2026.07.00.00 Release Notes for VMware ESXi 9.0 and 9.1

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HPE Broadcom NetXtreme-E Drivers for VMware vSphere 9.1

Version: 2026.05.00 **(Recommended)**

Filename: cp071480.compsig; cp071480.zip

Important Note!

- o This component is intended to be used by HPE applications. It is a zip file that contains the same driver deliverable available from the vmware.com and the HPE vibsdepot.hpe.com webpages, plus an HPE specific CP0xxxxx.xml file.
- o HPE recommends the *HPE Broadcom NetXtreme-E Firmware Version*, 237.1.148000 or later, for use with this driver.

Fixes

- o This product fixes the issue where RDMA resource configuration for VFs may be incorrectly handled when VF RDMA is disabled in BIOS.
- o This product fixes the issue where the RoCE traffic priority may be incorrectly updated during RoCE connection handling.

Enhancements

- o This product enhances the driver to report a warning in the kernel logs when the module temperature reaches the threshold.

Supported Devices and Features

This product supports the following network adapters:

- o HPE Ethernet 10Gb 2-port 535FLR-T Adapter
- o HPE Ethernet 10Gb 2-port 535T Adapter
- o HPE Ethernet 10Gb 2-port 537SFP+ Adapter
- o HPE Ethernet 10Gb 2-port 537SFP+ FLR Adapter
- o HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter
- o HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter
- o HPE Ethernet 10Gb 2-port SFP+ BCM57412 OCP3 Adapter
- o HPE Ethernet 10Gb 2-port SFP+ BCM57412 Adapter
- o HPE Ethernet 10Gb 2-port BaseT BCM57416 OCP3 Adapter
- o HPE Ethernet 10Gb 2-port BaseT BCM57416 Adapter
- o HPE Ethernet 10/25Gb 2-port SFP28 BCM57414 OCP3 Adapter
- o HPE Ethernet 10/25Gb 2-port SFP28 BCM57414 Adapter
- o Broadcom BCM57504 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE
- o Broadcom BCM57504 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter for HPE
- o Broadcom BCM57608 Ethernet 100Gb 2-port QSFP112 Adapter for HPE
- o Broadcom BCM57608 Ethernet 100Gb 2-port QSFP112 OCP3 Adapter for HPE

HPE Intel ixgben Driver for VMware vSphere 9.1

Version: 2026.03.00 **(Recommended)**

Filename: cp070841.compsig; cp070841.zip

Important Note!

This component is intended to be used by HPE applications. It is a zip file that contains the same driver deliverable available from the vmware.com and the HPE vibsdepot.hpe.com webpages, plus an HPE specific CP0xxxxx.xml file.

- o HPE recommends the firmware provided in *HPE Intel Online Firmware Upgrade Utility for VMware*, version 3.27.0 or later, for use with this driver.
- o HPE recommends the firmware provided in *Intel Firmware Package For E610-IT4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter*, version 1.22 or later, for use with this driver

Enhancements

Initial version

Supported Devices and Features

These drivers support the following network adapters:

- o HPE Ethernet 10Gb 2-port 560SFP+ Adapter
- o HPE Ethernet 10Gb 2-port 560FLR-SFP+ Adapter
- o HPE Ethernet 10Gb 2-port 561T Adapter
- o HPE Ethernet 10Gb 2-port 561FLR-T Adapter
- o HPE Ethernet 10Gb 2-port 562T Adapter
- o HPE Ethernet 10Gb 2-port 562FLR-T Adapter
- o Intel E610-IT4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE

Intel icn Driver for VMware vSphere 9.1
Version: 2026.03.00 (**Recommended**)
Filename: cp070840.compsig; cp070840.zip

Important Note!

- This component is intended to be used by HPE applications. It is a zip file that contains the same driver deliverable available from the vmware.com and the HPE vibspot.hpe.com webpages, plus an HPE specific CP0xxxxx.xml file.
- HPE recommends the firmware provided in *Intel Firmware Package For E810 Ethernet Adapter*, version 4.91 or later, for use with these drivers.

Enhancements

Initial version

Supported Devices and Features

This product supports the following network adapters:

- Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE
- Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter for HPE
- Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE
- Intel E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 Adapter for HPE
- Intel E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE
- Intel E810-2CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE
- Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter for HPE

Driver - Storage Controller

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HPE MR932i-p Controller Driver (64-bit) for vSphere 9.1
Version: 2026.04.01 (**Recommended**)
Filename: cp071202.compsig; cp071202.zip

Important Note!

- Actual Version is 8.16.1.0.0.0

Fixes

- Fix an issue that incomplete LOG DATA event information caused application crashes
- Fix a rare issue that page fault exception is observed while running heavy IOs along with controller reset
- Fix an issue that sense data is not observed by application for the IOCTL IOs which are failed with check condition

Enhancements

- Report firmware package version to upper layer

Firmware - Network

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NVIDIA Firmware Package (FWPKG) - Mellanox MCX631102AS-ADAT Ethernet 10/25Gb 2-port SFP28 Adapter for HPE
Version: 26.49.1014 (**Recommended**)
Filename: 26_49_1014-MCX631102AS-ADA_Ax.pldm.fwpkg; 26_49_1014-MCX631102AS-ADA_Ax.pldm.json

Important Note!

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A list of known issues with this release is available under Section 6 in : <https://docs.nvidia.com/nvidia-connectx-6-lx-adapter-cards-firmware-release-notes-v26-49-1014.pdf>

Prerequisites

FWPKG will work only if the firmware version flashed on the adapter is 20.27.1016 or later and iLO5 firmware version must be 2.30 or higher.

Fixes

The following issues have been fixed in version 26.49.1014:

- Live migration target would not receive a port state change event on the resume VHCA command. The target now generates this event so software that depends on port state is notified of any changes.
- PCC issue where RDMA traffic would stall at large scale for certain IP and UDP source-port combinations when a PCC user algorithm was active and no CC algorithm was configured in slot 0.

Enhancements

No new features or changes are included in version 26.49.1014.

Supported Devices and Features

HPE Part Number	NVIDIA Ethernet Only Adapters	PSID
P42044-B21	Mellanox MCX631102AS-ADAT Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	MT_0000000575

NVIDIA Firmware Package (FWPKG) - Mellanox MCX631432AS-ADAI Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE
Version: 26.49.1014 **(Recommended)**
Filename: 26_49_1014-MCX631432AS-ADA_Ax.pldm.fwpkg; 26_49_1014-MCX631432AS-ADA_Ax.pldm.json

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Prerequisites

FWPKG will work only if the firmware version flashed on the adapter is 20.27.1016 or later and iLO5 firmware version must be 2.30 or higher.

Fixes

The following issues have been fixed in version 26.49.1014:

- o Live migration target would not receive a port state change event on the resume VHCA command. The target now generates this event so software that depends on port state is notified of any changes.
- o PCC issue where RDMA traffic would stall at large scale for certain IP and UDP source-port combinations when a PCC user algorithm was active and no CC algorithm was configured in slot 0.

Enhancements

No new features or changes are included in version 26.49.1014.

Supported Devices and Features

HPE Part Number	NVIDIA Ethernet Only Adapters	PSID
P42041-B21	Mellanox MCX631432AS-ADAI Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE	MT_0000000551

NVIDIA Firmware Package (FWPKG) for HPE InfiniBand NDR/Ethernet 400Gb 1-port OSFP PCIe5 x16 MCX75310AAS-NEAT Adapter : HPE part numbers P45641-B23 and P45641-H23
Version: 28.49.1014 **(Recommended)**
Filename: 28_49_1014-MCX75310AAS-NEAT_HPE2_Ax.pldm.fwpkg; 28_49_1014-MCX75310AAS-NEAT_HPE2_Ax.pldm.json

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.

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A list of known issues with this release is available at: <https://networking-docs.nvidia.com/connectx7fwrn/28.49.1014/known-issues>

Fixes

The following issues have been fixed in version 28.49.1014:

- o NSM Get-Port-Network-Addresses returned an invalid format on B200/B300 HMC. It now follows the documented non-compact format.
- o An issue that could prevent the adapter's PCIe link from re-establishing after the host resumed from a deep power-down state. This fix improves the reliability of suspend/resume cycles.
- o A DEAD IRISC assert that could occur during TLV NV_DATA flash access by suspending the watchdog while waiting for flash IPC (until timeout), preventing the assert on TLV access.
- o An issue where repeatedly writing NVCONFIG TLVs could cause excessive NV_DATA partition swaps during garbage collection. This rapid cycling could accelerate flash wear (end-of-life at 100,000 erases) and potentially render the device inoperable. Firmware now avoids unnecessary physical writes by returning OK when the requested configuration already exists in flash, and increases the maximum supported NV_DATA partition swaps from 100,000 to 200,000.
- o ICM_RES_HW_DMFS_ENCAP_H_FW was allocated per GVM1, preventing some RTTs from using it.
- o vDPA doorbell resources were not released, which could cause failures when running other functionality after a vDPA FLR. Doorbell resources are now properly unlocked.
- o RDMA traffic could stall in large-scale deployments for certain source IP and UDP source-port combinations when DOCA PCC was active and no congestion-control algorithm was configured in algorithm slot 0.
- o The live migration target did not receive a port state change event on the resume VHCA command. The target now generates this event so software that depends on port state is notified of any changes.
- o A precopy image was processed during the stop-copy phase, causing prolonged downtime due to a software limitation. The handling was slow because the handler performed a linear search for data; this was improved by replacing it with a faster search approach enabled via compile-time preprocessing.

- QPs established before loading DOCA PCC could exhibit inconsistent algorithm-selected behavior between ports in LAG mode after DOCA PCC is loaded.

Enhancements

New features and changes included in version 28.49.1014:

- Added support for Congestion-Control histogram collection in the PCC/ZTR-RTT algorithm. After enabling this capability, customers can read RATE and RTT histogram counters for PCC-managed flows.
- Added a new parameter to the ZTR_RTTCC algorithm to define the probe-packet timeout threshold.
- Added support for a new packet reformat type for PSP transport packets. This reformat removes the PSP trailer and the UDP + PSP transport headers, and updates the IP Protocol field based on the PSP next_header value.

Supported Devices and Features

HPE Part Number	NVIDIA VPI Adapter	PSID
P45641-B23	HPE InfiniBand NDR/Ethernet 400Gb 1-port OSFP PCIe5 x16 MCX75310AAS-NEAT Adapter (P45641-B23 and P45641-H23)	MT_0000001120

NVIDIA Firmware Package (FWPKG) for HPE InfiniBand NDR/Ethernet 400Gb 1-port OSFP PCIe5 x16 MCX75310AAS-NEAT Generic Adapter : HPE part number P45641-H24
Version: 28.49.1014 **(Recommended)**
Filename: 28_49_1014-MCX75310AAS-NEA_Ax.pldm.fwpkg; 28_49_1014-MCX75310AAS-NEA_Ax.pldm.json

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:

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- 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.

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A list of known issues with this release is available at: <https://networking-docs.nvidia.com/connectx7fwrn/28.49.1014/known-issues>

Fixes

The following issues have been fixed in version 28.49.1014:

- NSM Get-Port-Network-Addresses returned an invalid format on B200/B300 HMC. It now follows the documented non-compact format.
- An issue that could prevent the adapter's PCIe link from re-establishing after the host resumed from a deep power-down state. This fix improves the reliability of suspend/resume cycles.
- A DEAD IRISC assert that could occur during TLV NV_DATA flash access by suspending the watchdog while waiting for flash IPC (until timeout), preventing the assert on TLV access.
- An issue where repeatedly writing NVCONFIG TLVs could cause excessive NV_DATA partition swaps during garbage collection. This rapid cycling could accelerate flash wear (end-of-life at 100,000 erases) and potentially render the device inoperable. Firmware now avoids unnecessary physical writes by returning OK when the requested configuration already exists in flash, and increases the maximum supported NV_DATA partition swaps from 100,000 to 200,000.
- ICM_RES_HW_DMFS_ENCAP_H_FW was allocated per GVMI, preventing some RTTs from using it.
- vDPA doorbell resources were not released, which could cause failures when running other functionality after a vDPA FLR. Doorbell resources are now properly unlocked.
- RDMA traffic could stall in large-scale deployments for certain source IP and UDP source-port combinations when DOCA PCC was active and no congestion-control algorithm was configured in algorithm slot 0.
- The live migration target did not receive a port state change event on the resume VHCA command. The target now generates this event so software that depends on port state is notified of any changes.
- A precopy image was processed during the stop-copy phase, causing prolonged downtime due to a software limitation. The handling was slow because the handler performed a linear search for data; this was improved by replacing it with a faster search approach enabled via compile-time preprocessing.
- QPs established before loading DOCA PCC could exhibit inconsistent algorithm-selected behavior between ports in LAG mode after DOCA PCC is loaded.

Enhancements

New features and changes included in version 28.49.1014:

- Added support for Congestion-Control histogram collection in the PCC/ZTR-RTT algorithm. After enabling this capability, customers can read RATE and RTT histogram counters for PCC-managed flows.
- Added a new parameter to the ZTR_RTTCC algorithm to define the probe-packet timeout threshold.
- Added support for a new packet reformat type for PSP transport packets. This reformat removes the PSP trailer and the UDP + PSP transport headers, and updates the IP Protocol field based on the PSP next_header value.

Supported Devices and Features

HPE Part Number	NVIDIA VPI Adapter	PSID
P45641-H24	HPE InfiniBand NDR/Ethernet 400Gb 1-port OSFP PCIe5 x16 MCX75310AAS-HEAT Generic Adapter (P45641-H24)	MT_0000000838

NVIDIA Firmware Package (FWPKG) for HPE InfiniBand NDR200/Ethernet 200Gb 1-port OSFP PCIe5 x16 MCX75310AAS-HEAT Adapter : HPE part numbers P45642-B22 and P45642-H22
Version: 28.49.1014 **(Recommended)**
Filename: 28_49_1014-MCX75310AAS-HEAT_HPE2_Ax.pldm.fwpkg; 28_49_1014-MCX75310AAS-HEAT_HPE2_Ax.pldm.json

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A list of known issues with this release is available at: <https://networking-docs.nvidia.com/connectx7fwrn/28.49.1014/known-issues>

Prerequisites

FWPKG will work only if the iLO5 firmware version is 2.30 or higher.

Fixes

The following issues have been fixed in version 28.49.1014:

- o NSM Get-Port-Network-Addresses returned an invalid format on B200/B300 HMC. It now follows the documented non-compact format.
- o An issue that could prevent the adapter's PCIe link from re-establishing after the host resumed from a deep power-down state. This fix improves the reliability of suspend/resume cycles.
- o A DEAD IRISC assert that could occur during TLV NV_DATA flash access by suspending the watchdog while waiting for flash IPC (until timeout), preventing the assert on TLV access.
- o An issue where repeatedly writing NVCONFIG TLVs could cause excessive NV_DATA partition swaps during garbage collection. This rapid cycling could accelerate flash wear (end-of-life at 100,000 erases) and potentially render the device inoperable. Firmware now avoids unnecessary physical writes by returning OK when the requested configuration already exists in flash, and increases the maximum supported NV_DATA partition swaps from 100,000 to 200,000.
- o ICM_RES_HW_DMFS_ENCAP_H_FW was allocated per GVMI, preventing some RTTs from using it.
- o vDPA doorbell resources were not released, which could cause failures when running other functionality after a vDPA FLR. Doorbell resources are now properly unlocked.
- o RDMA traffic could stall in large-scale deployments for certain source IP and UDP source-port combinations when DOCA PCC was active and no congestion-control algorithm was configured in algorithm slot 0.
- o The live migration target did not receive a port state change event on the resume VHCA command. The target now generates this event so software that depends on port state is notified of any changes.
- o A precopy image was processed during the stop-copy phase, causing prolonged downtime due to a software limitation. The handling was slow because the handler performed a linear search for data; this was improved by replacing it with a faster search approach enabled via compile-time preprocessing.
- o QPs established before loading DOCA PCC could exhibit inconsistent algorithm-selected behavior between ports in LAG mode after DOCA PCC is loaded.

Enhancements

New features and changes included in version 28.49.1014:

- o Added support for Congestion-Control histogram collection in the PCC/ZTR-RTT algorithm. After enabling this capability, customers can read RATE and RTT histogram counters for PCC-managed flows.
- o Added a new parameter to the ZTR_RTTCC algorithm to define the probe-packet timeout threshold.
- o Added support for a new packet reformat type for PSP transport packets. This reformat removes the PSP trailer and the UDP + PSP transport headers, and updates the IP Protocol field based on the PSP next_header value.

Supported Devices and Features

HPE Part Number	NVIDIA VPI Adapter	PSID
P45642-B22	HPE InfiniBand NDR200/Ethernet 200Gb 1-port OSFP PCIe5 x16 MCX75310AAS-HEAT Adapter (P45642-B22 and P45642-H22)	MT_0000001119

NVIDIA Firmware Package (FWPKG) for HPE InfiniBand NDR200/Ethernet 200Gb 1-port OSFP PCIe5 x16 MCX75310AAS-HEAT Generic Adapter : HPE part number P45642-H23
Version: 28.49.1014 **(Recommended)**
Filename: 28_49_1014-MCX75310AAS-HEA_Ax.pldm.fwpkg; 28_49_1014-MCX75310AAS-HEA_Ax.pldm.json

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Prerequisites

FWPKG will work only if the iLO5 firmware version is 2.30 or higher.

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- o An issue that could prevent the adapter's PCIe link from re-establishing after the host resumed from a deep power-down state. This fix improves the reliability of suspend/resume cycles.

- o A DEAD IRISC assert that could occur during TLV NV_DATA flash access by suspending the watchdog while waiting for flash IPC (until timeout), preventing the assert on TLV access.
- o An issue where repeatedly writing NVCONFIG TLVs could cause excessive NV_DATA partition swaps during garbage collection. This rapid cycling could accelerate flash wear (end-of-life at 100,000 erases) and potentially render the device inoperable. Firmware now avoids unnecessary physical writes by returning OK when the requested configuration already exists in flash, and increases the maximum supported NV_DATA partition swaps from 100,000 to 200,000.
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Enhancements

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- o Added support for Congestion-Control histogram collection in the PCC/ZTR-RTT algorithm. After enabling this capability, customers can read RATE and RTT histogram counters for PCC-managed flows.
- o Added a new parameter to the ZTR_RTTCC algorithm to define the probe-packet timeout threshold.
- o Added support for a new packet reformat type for PSP transport packets. This reformat removes the PSP trailer and the UDP + PSP transport headers, and updates the IP Protocol field based on the PSP next_header value.

Supported Devices and Features

HPE Part Number	NVIDIA VPI Adapter	PSID
P45642-H23	HPE InfiniBand NDR200/Ethernet 200Gb 1-port OSFP PCIe5 x16 MCX75310AAS-HEAT Generic Adapter (P45642-H23)	MT_0000000844

NVIDIA Firmware Package (FWPKG) for HPE InfiniBand NDR200/Ethernet 200GbE 2-port QSFP112 PCIe5 x16 MCX755106AC-HEAT Adapter : HPE part numbers P65333-B21 and P65333-H21

Version: 28.49.1014 (**Recommended**)

Filename: 28_49_1014-MCX755106AC-HEAT_HPE_Ax.pldm.fwpkg; 28_49_1014-MCX755106AC-HEAT_HPE_Ax.pldm.json

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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://networking-docs.nvidia.com/connectx7fwrn/28.49.1014/known-issues>

Fixes

The following issues have been fixed in version 28.49.1014:

- o NSM Get-Port-Network-Addresses returned an invalid format on B200/B300 HMC. It now follows the documented non-compact format.
- o An issue that could prevent the adapter's PCIe link from re-establishing after the host resumed from a deep power-down state. This fix improves the reliability of suspend/resume cycles.
- o A DEAD IRISC assert that could occur during TLV NV_DATA flash access by suspending the watchdog while waiting for flash IPC (until timeout), preventing the assert on TLV access.
- o An issue where repeatedly writing NVCONFIG TLVs could cause excessive NV_DATA partition swaps during garbage collection. This rapid cycling could accelerate flash wear (end-of-life at 100,000 erases) and potentially render the device inoperable. Firmware now avoids unnecessary physical writes by returning OK when the requested configuration already exists in flash, and increases the maximum supported NV_DATA partition swaps from 100,000 to 200,000.
- o ICM_RES_HW_DMFS_ENCAP_H_FW was allocated per GVMI, preventing some RTTs from using it.
- o vDPA doorbell resources were not released, which could cause failures when running other functionality after a vDPA FLR. Doorbell resources are now properly unlocked.
- o RDMA traffic could stall in large-scale deployments for certain source IP and UDP source-port combinations when DOCA PCC was active and no congestion-control algorithm was configured in algorithm slot 0.
- o The live migration target did not receive a port state change event on the resume VHCA command. The target now generates this event so software that depends on port state is notified of any changes.
- o A precopy image was processed during the stop-copy phase, causing prolonged downtime due to a software limitation. The handling was slow because the handler performed a linear search for data; this was improved by replacing it with a faster search approach enabled via compile-time preprocessing.
- o QPs established before loading DOCA PCC could exhibit inconsistent algorithm-selected behavior between ports in LAG mode after DOCA PCC is loaded.

Enhancements

New features and changes included in version 28.49.1014:

- o Added support for Congestion-Control histogram collection in the PCC/ZTR-RTT algorithm. After enabling this capability, customers can read RATE and RTT histogram counters for PCC-managed flows.
- o Added a new parameter to the ZTR_RTTCC algorithm to define the probe-packet timeout threshold.
- o Added support for a new packet reformat type for PSP transport packets. This reformat removes the PSP trailer and the UDP + PSP transport headers, and updates the IP Protocol field based on the PSP next_header value.

Supported Devices and Features

HPE Part Number	NVIDIA VPI Adapter	PSID
P65333-B21	HPE InfiniBand NDR200/Ethernet 200GbE 2-port QSFP112 PCIe5 x16 MCX755106AC-HEAT Adapter (P65333-B21 and P65333-H21)	MT_0000001108

NVIDIA Firmware Package (FWPKG) for Mellanox MCX623106AS-CDAT Ethernet 100Gb 2-port QSFP56 Adapter for HPE

Version: 22.49.1014 **(Recommended)**

Filename: 22_49_1014-MCX623106AS-CDA_Ax.pldm.fwpkg; 22_49_1014-MCX623106AS-CDA_Ax.pldm.json

Important Note!

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://networking-docs.nvidia.com/connectx6dxfwrn/22.49.1014/known-issues>

Prerequisites

FWPKG will work only if the firmware version flashed on the adapter is 22.27.1016 or later and iLO5 firmware version must be 2.30 or higher.

Fixes

The following issues have been fixed in version 22.49.1014:

- o vDPA doorbell resources were not released causing failures when running other functionality after a vDPA FLR. Doorbell resources are now properly unlocked.
- o Live migration target would not receive a port state change event on the resume VHCA command. The target now generates this event so software that depends on port state is notified of any changes.
- o PCC issue where RDMA traffic would stall at large scale for certain IP and UDP source-port combinations when a PCC user algorithm was active and no CC algorithm was configured in slot 0.

Enhancements

No new features or changes are included in version 22.49.1014.

Supported Devices and Features

HPE Part Number	NVIDIA Ethernet Only Adapters	PSID
P25960-B21	Mellanox MCX623106AS-CDAT Ethernet 100Gb 2-port QSFP56 Adapter for HPE	MT_0000000437

Firmware - Storage Fibre Channel

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HPE Firmware Flash for Emulex 32Gb and 64Gb Fibre Channel Host Bus Adapters

Version: 14.4.731.21 **(Recommended)**

Filename: PP14.4.731.21_header.pldm.fwpkg

Important Note!

This component is supported only on Gen12 ProLiant and Gen11 AMD servers.

Release notes:

[Broadcom Release notes](#)

This Firmware package contains following firmware versions:

Adapter	Speed	Universal Boot Image	Firmware	UEFI	Boot Bios
HPE SN1620E 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	14.4.731.21	14.4.731.21	14.4.731.20	14.4.718.0
HPE SN1720E 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	14.4.731.21	14.4.731.21	14.4.731.20	14.4.718.0

Fixed the following:

- o Garbled characters are observed in the System Utilities(F9) configuration screens with Japanese Environment when HPE Emulex Fibre Channel Host Bus Adapter is installed on ProLiant Gen11 and ProLiant Gen12 servers
- o Unified Extensible Firmware Interface (UEFI) protocol driver does not complete the polling device; causing the UEFI diagnostics system board component test incomplete.

Added Following Enhancements:

- o Add logic to detect Small Form-Factor Pluggable(SFP) is stuck holding Serial Clock Line(SCL) Low.
- o Return a new state in Acquisition and Control Query Executive (ACQE) to indicate Small Form-Factor Pluggable(SFP) is non-responsive

Prerequisites

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

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

Fixes

Fixed the following:

- Garbled characters are observed in the System Utilities(F9) configuration screens with Japanese Environment when HPE Emulex Fibre Channel Host Bus Adapter is installed on ProLiant Gen11 and ProLiant Gen12 servers
- Unified Extensible Firmware Interface (UEFI) protocol driver does not complete the polling device; causing the UEFI diagnostics system board component test incomplete.

Enhancements

This Firmware package contains following firmware versions:

Adapter	Speed	Universal Boot Image	Firmware	UEFI	Boot Bios
HPE SN1620E 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	14.4.731.21	14.4.731.21	14.4.731.20	14.4.718.0
HPE SN1720E 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	14.4.731.21	14.4.731.21	14.4.731.20	14.4.718.0

Added Following Enhancements:

- Add logic to detect Small Form-Factor Pluggable(SFP) is stuck holding Serial Clock Line(SCL) Low.
- Return a new state in Acquisition and Control Query Executive (ACQE) to indicate Small Form-Factor Pluggable(SFP) is non-responsive

Supported Devices and Features

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

32Gb FC Adapter:

- HPE SN1620E 32Gb Dual port Fibre Channel Host Bus Adapter

64Gb FC Adapter:

- HPE SN1720E 64Gb Dual port Fibre Channel Host Bus Adapter

HPE Firmware Flash for QLogic 32Gb and 64Gb Fibre Channel Host Bus Adapters

Version: 02.11.14 (**Recommended**)

Filename: mh021114.upd_header.pldm.fwpkg

Important Note!

Release Notes:

[HPE QLogic Adapters Release Notes](#)

This Firmware package contains following firmware versions:

Adapter	Speed	MBI	Firmware	UEFI	MPI FW	PEP FW	PEP SoftROM	PEP Brd Cfg 2P	PEP Brd Cfg 1P	FC Brd Cfg 2P	FC Brd Cfg 1P	PCIe Serdes	Preload FWA 2P	Preload FWA 1P
HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	02.11.14	09.15.19	7.39	3.04.21	3.01.41	3.00.13	3.01.00	NA	3.07.02	NA	3.00.07	4.01.16	NA
HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	02.11.14	09.15.19	7.39	3.04.21	3.01.41	3.00.13	NA	3.02.00	NA	3.07.02	3.00.07	NA	4.05.07
HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	02.11.14	09.15.19	7.39	3.04.21	3.01.41	3.00.13	3.01.00	NA	3.07.02	NA	3.00.07	4.01.16	NA
HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	02.11.14	09.15.19	7.39	3.04.21	3.01.41	3.00.13	NA	3.02.00	NA	3.07.02	3.00.07	NA	4.05.07

Updated the validity of UEFI signature

Fixes

Updated the validity of UEFI signature

Enhancements

This Firmware package contains following firmware versions:

Adapter	Speed	MBI	Firmware	UEFI	MPI FW	PEP FW	PEP SoftROM	PEP Brd Cfg 2P	PEP Brd Cfg 1P	FC Brd Cfg 2P	FC Brd Cfg 1P	PCIe Serdes	Preload FWA 2P	Preload FWA 1P
HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	02.11.14	09.15.19	7.39	3.04.21	3.01.41	3.00.13	3.01.00	NA	3.07.02	NA	3.00.07	4.01.16	NA
HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	02.11.14	09.15.19	7.39	3.04.21	3.01.41	3.00.13	NA	3.02.00	NA	3.07.02	3.00.07	NA	4.05.07
HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	02.11.14	09.15.19	7.39	3.04.21	3.01.41	3.00.13	3.01.00	NA	3.07.02	NA	3.00.07	4.01.16	NA
HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	02.11.14	09.15.19	7.39	3.04.21	3.01.41	3.00.13	NA	3.02.00	NA	3.07.02	3.00.07	NA	4.05.07

Supported Devices and Features

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

32Gb Fibre Channel Host Bus Adapter:

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

64Gb Fibre Channel Host Bus Adapter:

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

Software - Storage Controller

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HPE MegaRAID Storage Administrator StorCLI for VMware9.1 (For Gen10P and Gen11 Controllers)

Version: 2026.03.01 (**Recommended**)

Filename: cp070800.compsig; cp070800.zip

Important Note!

- o Actual ESXi Version is 0007.3604.0000.0000

Fixes

- o Fix an issue that storcli show /cx/ex/sx poh (power on hour) command report error on NVMe drives
- o Fix an issue that PSOC update is not allowing when the part number is beyond 65535

Enhancements

- o Return error when enabling encryption with 256 characters for keyid in Drive Security command
- o Display the controller serial number as "NA" when not programmed

HPE MegaRAID Storage Administrator StorCLI for VMware9.1 (for MR932i-p Controller)

Version: 2026.04.01 (**Recommended**)

Filename: cp070799.compsig; cp070799.zip

Important Note!

- o **Actual ESXi Version is 008.00aa.0000.00bb, even though the file name indicates 008.00aa.03bb-1OEM.900.0.xxxxxxxx.**

Fixes

- o Fix an issue that RIAD 60 volume with preserved cache is reporting incorrect volume size in show preservedcache command
- o Fix an issue that volume info is showing "SCSI Status: failure" when background operations on the volume are going
- o Fix an issue that storcli2 fails to set firstdeviceid to default value 65535
- o Fix an issue that add map command returns incorrect error message
- o Fix an issue that improper output while setting Consistency Check execfrequency for weeks/days
- o Fix a rare issue that storcli2 may crash on querying the controller
- o Fix an issue that multiple error messages may show when show POH (Power On Hours) on drives
- o Fix an issue that volume is shown as virtual drive in show aso command
- o Fix an issue that default strip size listed as 65KB instead of 64KB
- o Fix an issue that incorrect message is shown while setting invalid FirstdeviceID
- o Fix an issue that one event is missing when the requested number of events is less than the current available events count

Enhancements

- o Update property "Security QR Enabled" as per latest MPI changes to "Security QR Secured" in show securebootinfo command
- o Migrate to Openssl 3.5.1
- o Updated CLI to display the PQC Algorithm details
- o Implement the Enhanced string in CLI prereview configuration for the non-importable foreign reason
- o Add Online Capacity Expansion limitation: No Foreign Config Import Allowed Until Completion
- o Provide method for removal of a volume from the exclusion list from patrol read
- o Add the NVMe drive smart info with the property "Self-test status" if operation is ongoing
- o Displaying missing Controller properties in storcli2. Added below CLI commands:
 - o /cx show dmhi
 - o /cx show ssddefaults
 - o /cx show nvmedefaults

Software - Storage Fibre Channel

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HPE QLogic Fibre Channel driver component for VMware vSphere 9.1

Version: 2026.03.01 (**Recommended**)

Filename: cp070467.compsig; cp070467.zip

Important Note!

This component is supported only on Gen12 ProLiant servers.

Release Notes:

[HPE QLogic Adapters Release Notes](#)

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.

This driver is only supported on VMware ESXi 9.1.

Prerequisites

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

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

Enhancements

Driver version 91.5.5.86.0

This driver is only supported on VMware ESXi 9.1

Supported Devices and Features

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

32Gb Fibre Channel Host Bus Adapter:

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

64Gb Fibre Channel Host Bus Adapter:

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

Software - System Management

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HPE Agentless Management Bundle for ESXi for Gen11 and Gen12 Servers

Version: 802.12.7.0 (**Recommended**)

Filename: amsdvComponent_802.12.7.0.8-1.zip

Fixes

See the [AMS Release Notes](#) for information about the issues resolved in this release.

Enhancements

See the [AMS Release Notes](#) for information about the issues resolved in this release.

HPE Agentless Management Bundle Smart Component on ESXi for Gen11 and Gen12 Servers

Version: 2026.07.01 (**Recommended**)

Filename: cp072012.compsig; cp072012.zip

Prerequisites

For HPE servers with iLO 7:

Ensure that the iLO Virtual NIC(VNIC) feature is enabled. Please refer to the HPE iLO User Guide for VNIC configuration procedure

Fixes

See the [AMS Release Notes](#) for information about the issues resolved in this release.

Enhancements

See the [AMS Release Notes](#) for information about the issues resolved in this release.

BIOS - System ROM

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ROM Flash Firmware Package - HPE ProLiant Compute DL110/EL140 Gen12 (U77) Servers

Version: 1.42_05-29-2026 **(Recommended)**

Filename: U77_1.42_05_29_2026.fwpkg; U77_1.42_05_29_2026.json

Important Note!

Important Notes:

This version of the System ROM contains VROC uEFI driver v.9.4.0.1052.

Details about reported security vulnerabilities and their mitigation can be found at the following link [Security Bulletin Library | HPE Support](#).

Deliverable Name:

HPE ProLiant Compute DL110 Gen12/EL140 Gen12 System ROM - U77

Release Version:

1.42_05-29-2026

Last Recommended or Critical Revision:

1.42_05-29-2026

Previous Revision:

1.40_04-02-2026

Firmware Dependencies:

None

Enhancements/New Features:

Updated the vRAN workload profile based on Intel FlexRAN release 2.5. The vRAN profile now disables Speculative Lock and Clock Modulation, and maps C-State Efficiency Mode to Disabled.

Enhanced iLO-BIOS communication for supporting SPDMM policy

Added an Integrated Management Log (IML) entry to indicate when Mission Critical Mode boot recovery has been triggered.

Added an Integrated Management Log (IML) entries for storage firmware update for NVMe devices in M.2 slots.

Added Security Log Event logging for Server Configuration Lock changes made through Redfish.

Added support for 1-slot riser configuration in DL110 Gen12.

Problems Fixed:

Addressed an issue where the IOMMU setting could remain uninitialized after upgrading to a newer version of ROM firmware which will cause Intel VT-d and Hyper-Threading to be inadvertently disabled.

Addressed an issue where system Secure Boot could not be restored to the platform default value when a manufacturing default was triggered through iLO REST API or Redfish.

Addressed an issue where Advanced Memory Protection option is not disabled. This option is not supported for this platform chipset based on Intel RAS specification.

Addressed an issue where the system could encounter an assert during memory address translation when operating in mirror mode.

Addressed an issue where Self-Encrypting Drive (SED) keys containing null bytes could be incorrectly truncated, potentially preventing drive unlock operations.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM contains VROC uEFI driver v.9.4.0.1052.

Details about reported security vulnerabilities and their mitigation can be found at the following link [Security Bulletin Library | HPE Support](#).

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where the IOMMU setting could remain uninitialized after upgrading to a newer version of ROM firmware which will cause Intel VT-d and Hyper-Threading to be inadvertently disabled.

Addressed an issue where system Secure Boot could not be restored to the platform default value when a manufacturing default was triggered through iLO REST API or Redfish.

Addressed an issue where Advanced Memory Protection option is not disabled. This option is not supported for this platform chipset based on Intel RAS specification.

Addressed an issue where the system could encounter an assert during memory address translation when operating in mirror mode.

Addressed an issue where Self-Encrypting Drive (SED) keys containing null bytes could be incorrectly truncated, potentially preventing drive unlock operations.

Known Issues:

None

Enhancements

Updated the vRAN workload profile based on Intel FlexRAN release 2.5. The vRAN profile now disables Speculative Lock and Clock Modulation, and maps C-State Efficiency Mode to Disabled.

Enhanced iLO-BIOS communication for supporting SPDMM policy

Added an Integrated Management Log (IML) entry to indicate when Mission Critical Mode boot recovery has been triggered.

Added an Integrated Management Log (IML) entries for storage firmware update for NVMe devices in M.2 slots.

Added Security Log Event logging for Server Configuration Lock changes made through Redfish.

Added support for 1-slot riser configuration in DL110 Gen12.

ROM Flash Firmware Package - HPE ProLiant Compute DL320/DL340/DL340e Gen12 (U71) Servers

Version: 1.82_06-26-2026 (**Recommended**)

Filename: U71_1.82_06_26_2026.fwpkg; U71_1.82_06_26_2026.json

Important Note!

Important Notes:

Details about reported security vulnerabilities and their mitigation can be found at the following link [Security Bulletin Library | HPE Support](#).

To streamline content and avoid duplication across documents, starting the Gen12 platform, the UEFI Workload Based Profiles and Tuning Guide has been deprecated, and the contents of this document are now available as part of the current UEFI System Utilities User Guide for HPE Compute Gen12 servers based on iLO7 (<https://hpe.com/support/UEFIG12-iLO7-UG-en>).

Deliverable Name:

HPE ProLiant Compute DL320/DL340 Gen12 System ROM - U71

Release Version:

1.82_06-26-2026

Last Recommended or Critical Revision:

1.82_06-26-2026

Previous Revision:

1.80_05-29-2026

Firmware Dependencies:

None

Enhancements/New Features:

Added a new Service Option "CXL Support" to enable/disable CXL support

Added dynamic BIOS special properties reporting via Redfish to accurately reflect processor-specific feature availability for BIOS/RBSU settings.

Added a new Service Option "MMCFG Base" with settings: Auto (2 GB), 1.5 GB, and 1 GB to adjust the base when needed.

Problems Fixed:

Addressed an issue where the system might get stuck at SMBIOS table initialization when performing power cycling via IPMI command.

Addressed an issue where the system did not automatically power on after a Mission Critical Mode auxiliary power cycle.

Addressed an issue where BIOS settings might not revert to platform defaults when BMC configuration overrides are cleared.

Addressed an issue where memory could get stuck at 6000 MT/s in 2-DIMM per channel configurations after a BIOS downgrade to an earlier version.

Known Issues:

None

Fixes

Important Notes:

Details about reported security vulnerabilities and their mitigation can be found at the following link [Security Bulletin Library | HPE Support](#).

To streamline content and avoid duplication across documents, starting the Gen12 platform, the UEFI Workload Based Profiles and Tuning Guide has been deprecated, and the contents of this document are now available as part of the current UEFI System Utilities User Guide for HPE Compute Gen12 servers based on iLO7

(<https://hpe.com/support/UEFIG12-iLO7-UG-en>).

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where the system might get stuck at SMBIOS table initialization when performing power cycling via IPMI command.

Addressed an issue where the system did not automatically power on after a Mission Critical Mode auxiliary power cycle.

Addressed an issue where BIOS settings might not revert to platform defaults when BMC configuration overrides are cleared.

Addressed an issue where memory could get stuck at 6000 MT/s in 2-DIMM per channel configurations after a BIOS downgrade to an earlier version.

Known Issues:

None

Enhancements

Added a new Service Option "CXL Support" to enable/disable CXL support

Added dynamic BIOS special properties reporting via Redfish to accurately reflect processor-specific feature availability for BIOS/RBSU settings.

Added a new Service Option "MMCFG Base" with settings: Auto (2 GB), 1.5 GB, and 1 GB to adjust the base when needed.

ROM Flash Firmware Package - System ROM for HPE ProLiant Compute DL380a/DL580 Gen12 (U72)

Version: 1.82_06-26-2026 **(Recommended)**

Filename: U72_1.82_06_26_2026.fwpkg; U72_1.82_06_26_2026.json

Important Note!

Important Notes:

Details about reported security vulnerabilities and their mitigation can be found at the following link [Security Bulletin Library | HPE Support](#).

To streamline content and avoid duplication across documents, starting the Gen12 platform, the UEFI Workload Based Profiles and Tuning Guide has been deprecated, and the contents of this document are now available as part of the current UEFI System Utilities User Guide for HPE Compute Gen12 servers based on iLO7 (<https://hpe.com/support/UEFIG12-iLO7-UG-en>).

Deliverable Name:

HPE ProLiant Compute DL380a/DL580 Gen12 System ROM - U72

Release Version:

1.82_06-26-2026

Last Recommended or Critical Revision:

1.82_06-26-2026

Previous Revision:

1.80_06-02-2026

Firmware Dependencies:

None

Enhancements/New Features:

Added a new Service Option "CXL Support" to enable/disable CXL support

Added dynamic BIOS special properties reporting via Redfish to accurately reflect processor-specific feature availability for BIOS/RBSU settings.

Added a new Service Option "MMCFG Base" with settings: Auto (2 GB), 1.5 GB, and 1 GB to adjust the base when needed.

Problems Fixed:

Addressed an issue where the system might get stuck at SMBIOS table initialization when performing power cycling via IPMI command.

Addressed an issue where the system did not automatically power on after a Mission Critical Mode auxiliary power cycle.

Addressed an issue where BIOS settings might not revert to platform defaults when BMC configuration overrides are cleared.

Addressed an issue where memory could get stuck at 6000 MT/s in 2-DIMM per channel configurations after a BIOS downgrade to an earlier version.

Known Issues:

None

Fixes

Important Notes:

Details about reported security vulnerabilities and their mitigation can be found at the following link [Security Bulletin Library | HPE Support](#).

To streamline content and avoid duplication across documents, starting the Gen12 platform, the UEFI Workload Based Profiles and Tuning Guide has been deprecated, and the contents of this document are now available as part of the current UEFI System Utilities User Guide for HPE Compute Gen12 servers based on iLO7 (<https://hpe.com/support/UEFIG12-iLO7-UG-en>).

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where the system might get stuck at SMBIOS table initialization when performing power cycling via IPMI command.

Addressed an issue where the system did not automatically power on after a Mission Critical Mode auxiliary power cycle.

Addressed an issue where BIOS settings might not revert to platform defaults when BMC configuration overrides are cleared.

Addressed an issue where memory could get stuck at 6000 MT/s in 2-DIMM per channel configurations after a BIOS downgrade to an earlier version.

Known Issues:

None

Enhancements

Added a new Service Option "CXL Support" to enable/disable CXL support

Added dynamic BIOS special properties reporting via Redfish to accurately reflect processor-specific feature availability for BIOS/RBSU settings.

Added a new Service Option "MMCFG Base" with settings: Auto (2 GB), 1.5 GB, and 1 GB to adjust the base when needed.

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