Release Notes for Gen11 Service Pack for ProLiant, v2022.12.00.00

BIOS (Login Required) - System ROM Top

Online ROM Flash Component for Linux - HPE ProLiant DL325/DL345 Gen11 (A56) Servers
Version: 1.12_11-24-2022 **(Recommended)**
Filename: RPMS/x86_64/firmware-system-a56-1.12_2022_11_24-1.1.x86_64.rpm;
RPMS/x86_64/firmware-system-a56-1.12_2022_11_24-1.1.x86_64_part1.compsig;
RPMS/x86_64/firmware-system-a56-1.12_2022_11_24-1.1.x86_64_part2.compsig

Important Note!

Important Notes:

None

Deliverable Name:

HPE ProLiant DL325/DL345 Gen11 System ROM - A56

Release Version:

1.12_11-24-2022

Last Recommended or Critical Revision:

1.12_11-24-2022

Previous Revision:

1.10_11-13-2022

Firmware Dependencies:

None

Enhancements/New Features:

This revision of the System ROM improves the system boot time when Restoring Default Manufacturing Settings.

Problems Fixed:

This revision of the System ROM includes the latest revision of the AMD reference code for AMD 4th Generation EPYC processors which addresses an issue of potential over voltage condition early in the boot sequence. This issue is not unique to HPE servers.

Known Issues:

None

Prerequisites

The "iLO 6 Channel Interface Driver" (CHIF) for Linux which is integrated into the standard Linux kernel.

Fixes

Important Notes:

None

Firmware Dependencies:

None

Problems Fixed:

This revision of the System ROM includes the latest revision of the AMD reference code for AMD 4th Generation EPYC processors which addresses an issue of potential over voltage condition early in the boot sequence. This issue is not unique to HPE servers.

Known Issues:

None

Enhancements

This revision of the System ROM improves the system boot time when Restoring Default Manufacturing Settings.

Online ROM Flash Component for Linux - HPE ProLiant DL365/DL385 Gen11 (A55) Servers
Version: 1.12_11-24-2022 **(Recommended)**
Filename: RPMS/x86_64/firmware-system-a55-1.12_2022_11_24-1.1.x86_64.rpm;
RPMS/x86_64/firmware-system-a55-1.12_2022_11_24-1.1.x86_64_part1.compsig;
RPMS/x86_64/firmware-system-a55-1.12_2022_11_24-1.1.x86_64_part2.compsig

Important Note!

Important Notes:

None

Deliverable Name:

HPE ProLiant DL365/DL385 Gen11 System ROM - A55

Release Version:

1.12_11-24-2022

Last Recommended or Critical Revision:

1.12_11-24-2022

Previous Revision:

1.10_11-13-2022

Firmware Dependencies:

None

Enhancements/New Features:

This revision of the System ROM improves the system boot time when Restoring Default Manufacturing Settings.

Problems Fixed:

This revision of the System ROM includes the latest revision of the AMD reference code for AMD 4th Generation EPYC processors which addresses an issue of potential over voltage condition early in the boot sequence. This issue is not unique to HPE servers.

Known Issues:

None

Prerequisites

The "iLO 6 Channel Interface Driver" (CHIF) for Linux which is integrated into the standard Linux kernel.

Fixes

Important Notes:

None

Firmware Dependencies:

None

Problems Fixed:

This revision of the System ROM includes the latest revision of the AMD reference code for AMD 4th Generation EPYC processors which addresses an issue of potential over voltage condition early in the boot sequence. This issue is not unique to HPE servers.

Known Issues:

None

Enhancements

This revision of the System ROM improves the system boot time when Restoring Default Manufacturing Settings.

Filename: cp055460.exe; cp055460_part1.compsig; cp055460_part2.compsig

Important Note!

Important Notes:

None

Deliverable Name:

HPE ProLiant DL325/DL345 Gen11 System ROM - A56

Release Version:

1.12_11-24-2022

Last Recommended or Critical Revision:

1.12_11-24-2022

Previous Revision:

1.10_11-13-2022

Firmware Dependencies:

None

Enhancements/New Features:

This revision of the System ROM improves the system boot time when Restoring Default Manufacturing Settings.

Problems Fixed:

This revision of the System ROM includes the latest revision of the AMD reference code for AMD 4th Generation EPYC processors which addresses an issue of potential over voltage condition early in the boot sequence. This issue is not unique to HPE servers.

Known Issues:

None

Prerequisites

The "iLO 6 Channel Interface Driver" (CHIF) for Windows which is available from Service Pack for ProLiant (SPP).

Fixes

Important Notes:

None

Firmware Dependencies:

None

Problems Fixed:

This revision of the System ROM includes the latest revision of the AMD reference code for AMD 4th Generation EPYC processors which addresses an issue of potential over voltage condition early in the boot sequence. This issue is not unique to HPE servers.

Known Issues:

None

Enhancements

This revision of the System ROM improves the system boot time when Restoring Default Manufacturing Settings.

Online ROM Flash Component for Windows x64 - HPE ProLiant DL365/DL385 Gen11 (A55) Servers
Version: 1.12_11-24-2022 **(Recommended)**
Filename: cp055458.exe; cp055458_part1.compsig; cp055458_part2.compsig

Important Note!

Important Notes:

None

Deliverable Name:

HPE ProLiant DL365/DL385 Gen11 System ROM - A55

Release Version:

1.12_11-24-2022

Last Recommended or Critical Revision:

1.12_11-24-2022

Previous Revision:

1.10_11-13-2022

Firmware Dependencies:

None

Enhancements/New Features:

This revision of the System ROM improves the system boot time when Restoring Default Manufacturing Settings.

Problems Fixed:

This revision of the System ROM includes the latest revision of the AMD reference code for AMD 4th Generation EPYC processors which addresses an issue of potential over voltage condition early in the boot sequence. This issue is not unique to HPE servers.

Known Issues:

None

Prerequisites

The "iLO 6 Channel Interface Driver" (CHIF) for Windows which is available from Service Pack for ProLiant (SPP).

Fixes

Important Notes:

None

Firmware Dependencies:

None

Problems Fixed:

This revision of the System ROM includes the latest revision of the AMD reference code for AMD 4th Generation EPYC processors which addresses an issue of potential over voltage condition early in the boot sequence. This issue is not unique to HPE servers.

Known Issues:

None

Enhancements

This revision of the System ROM improves the system boot time when Restoring Default Manufacturing Settings.

ROM Flash Universal Firmware Package - HPE ProLiant DL325/DL345 Gen11 (A56) Servers
Version: 1.12_11-24-2022 **(Recommended)**
Filename: A56_1.12_11_24_2022.fwpkg

Important Note!

Important Notes:

None

Deliverable Name:

HPE ProLiant DL325/DL345 Gen11 System ROM - A56

Release Version:

1.12_11-24-2022

Last Recommended or Critical Revision:

1.12_11-24-2022

Previous Revision:

1.10_11-13-2022

Firmware Dependencies:

None

Enhancements/New Features:

This revision of the System ROM improves the system boot time when Restoring Default Manufacturing Settings.

Problems Fixed:

This revision of the System ROM includes the latest revision of the AMD reference code for AMD 4th Generation EPYC processors which addresses an issue of potential over voltage condition early in the boot sequence. This issue is not unique to HPE servers.

Known Issues:

None

Fixes

Important Notes:

None

Firmware Dependencies:

None

Problems Fixed:

This revision of the System ROM includes the latest revision of the AMD reference code for AMD 4th Generation EPYC processors which addresses an issue of potential over voltage condition early in the boot sequence. This issue is not unique to HPE servers.

Known Issues:

None

Enhancements

This revision of the System ROM improves the system boot time when Restoring Default Manufacturing Settings.

ROM Flash Universal Firmware Package - HPE ProLiant DL365/DL385 Gen11 (A55) Servers
Version: 1.12_11-24-2022 **(Recommended)**
Filename: A55_1.12_11_24_2022.fwpkg

Important Note!

Important Notes:

None

Deliverable Name:

HPE ProLiant DL365/DL385 Gen11 System ROM - A55

Release Version:

1.12_11-24-2022

Last Recommended or Critical Revision:

1.12_11-24-2022

Previous Revision:

1.10_11-13-2022

Firmware Dependencies:

None

Enhancements/New Features:

This revision of the System ROM improves the system boot time when Restoring Default Manufacturing Settings.

Problems Fixed:

This revision of the System ROM includes the latest revision of the AMD reference code for AMD 4th Generation EPYC processors which addresses an issue of potential over voltage condition early in the boot sequence. This issue is not unique to HPE servers.

Known Issues:

None

Fixes

Important Notes:

None

Firmware Dependencies:

None

Problems Fixed:

This revision of the System ROM includes the latest revision of the AMD reference code for AMD 4th Generation EPYC processors which addresses an issue of potential over voltage condition early in the boot sequence. This issue is not unique to HPE servers.

Known Issues:

None

Enhancements

This revision of the System ROM improves the system boot time when Restoring Default Manufacturing Settings.

Driver - Chipset Top

Identifiers for AMD EPYC Genoa Processors for Microsoft Windows Server 2019
Version: 4.6.27.500 (B) **(Recommended)**
Filename: cp054703.compsig; cp054703.exe

Enhancements

- Support for Windows Server 2019

Identifiers for AMD EPYC Genoa Processors for Microsoft Windows Server 2022
Version: 4.6.27.500 **(Recommended)**
Filename: cp054702.compsig; cp054702.exe

Enhancements

Initial release.

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 - Network Top

Broadcom NetXtreme-E Driver for Microsoft Windows Server 2019
Version: 222.0.126.0 (B) **(Recommended)**
Filename: cp051518.compsig; cp051518.exe

Important Note!

HPE recommends the firmware provided in Broadcom Firmware Package for BCM5741x and BCM5750x adapters, version 222.1.68.0 or later, for use with this driver.

Fixes

This product correct an issue which the VF driver to delete and recreate CFA filter for the default VNIC upon VF VLAN changed.

Enhancements

- This product now supports to improve a few event log messages which contain dynamic arguments.
- This product no longer supported NDIS Inbox cat/pdb/sys files.
- This product is updated to maintain compatibility with CNSA (Commercial National Security Algorithm) compliance.

Supported Devices and Features

This product supports the following network adapters:

- HPE Ethernet 10Gb 2-port SFP+ BCM57412 OCP3 Adapter
- HPE Ethernet 10Gb 2-port SFP+ BCM57412 Adapter
- HPE Ethernet 10Gb 2-port BaseT BCM57416 OCP3 Adapter
- HPE Ethernet 10Gb 2-port BaseT BCM57416 Adapter
- HPE Ethernet 10/25Gb 2-port SFP28 BCM57414 OCP3 Adapter
- HPE Ethernet 10/25Gb 2-port SFP28 BCM57414 Adapter
- Broadcom BCM57504 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE
- Broadcom BCM57504 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter for HPE

Broadcom NetXtreme-E Driver for Microsoft Windows Server 2022
Version: 222.0.126.0 (B) **(Recommended)**
Filename: cp051519.compsig; cp051519.exe

Important Note!

HPE recommends the firmware provided in Broadcom Firmware Package for BCM5741x and BCM5750x adapters, version 222.1.68.0 or later, for use with this driver.

Fixes

This product correct an issue which the VF driver to delete and recreate CFA filter for the default VNIC upon VF VLAN changed.

Enhancements

- This product now supports to improve a few event log messages which contain dynamic arguments.
- This product no longer supported NDIS Inbox cat/pdb/sys files.
- This product is updated to maintain compatibility with CNSA (Commercial National Security Algorithm) compliance.

Supported Devices and Features

This product supports the following network adapters:

- HPE Ethernet 10Gb 2-port SFP+ BCM57412 OCP3 Adapter
- HPE Ethernet 10Gb 2-port SFP+ BCM57412 Adapter
- HPE Ethernet 10Gb 2-port BaseT BCM57416 OCP3 Adapter
- HPE Ethernet 10Gb 2-port BaseT BCM57416 Adapter
- HPE Ethernet 10/25Gb 2-port SFP28 BCM57414 OCP3 Adapter
- HPE Ethernet 10/25Gb 2-port SFP28 BCM57414 Adapter
- Broadcom BCM57504 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE
- Broadcom BCM57504 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter for HPE

Broadcom NX1 1Gb Driver for Windows Server x64 Editions
Version: 221.0.4.0 **(Recommended)**
Filename: cp051465.compsig; cp051465.exe

Important Note!

HPE recommends the firmware provided in *HPE Broadcom NX1 Online Firmware Upgrade Utility for Windows Server x64 Editions*, version 5.3.0.0 or later, for use with this driver.

Fixes

- This product addresses an issue which the NDISTest 6.5 OffloadMisc OffloadChecksum OffloadLSO tests failing on Win2019.
- This product addresses an issue which the 5719 4-Port Performance Issue at 10 Mb/S link rate with Auto-Negotiate mode as recommended.

Supported Devices and Features

This product supports the following network adapters:

- Broadcom BCM5719 Ethernet 1Gb 4-port Base-T Adapter for HPE
- Broadcom BCM5719 Ethernet 1Gb 4-port Base-T OCP3 Adapter for HPE
- Broadcom BCM5720 Ethernet 1Gb 2-port BASE-T LOM Adapter for HPE

HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 8
Version: 1.10.2-222.0.142.0 (B) **(Recommended)**
Filename: kmod-bnxt_en-1.10.2-222.0.142.0.rhel8u5.x86_64.compsig; kmod-bnxt_en-1.10.2-222.0.142.0.rhel8u5.x86_64.rpm; README

Important Note!

HPE recommends the *HPE Broadcom NetXtreme-E Firmware Version,* 218.0.303000 or later, for use with this driver.

Fixes

- This product addresses the system stability after unload-load the driver while receiving traffic.
- This product addresses the system stability for creating VF on nPAR partition.

Enhancements

This product is updated to maintain compatibility with CNSA (Commercial National Security Algorithm) compliance.

Supported Devices and Features

This product supports the following network adapters:

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

HPE Broadcom NetXtreme-E Drivers for VMware vSphere 7.0
Version: 2022.10.12 **(Recommended)**
Filename: cp051496.compsig; cp051496.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.
- HPE recommends the *HPE Broadcom NetXtreme-E Firmware Version,* 218.0.303000 or later, for use with this driver.

Fixes

- This product correct an issue which the problem of failing to bring up maximum amount of VFs.
- This product correct an issue which the PSOD if rx-ring size is less than 256 or exact 128.

- This product correct an issue which the vxlan tunnel port config failure symptom during driver reload.

Enhancements

This product is updated to maintain compatibility with CNSA (Commercial National Security Algorithm) compliance.

Supported Devices and Features

This product supports the following network adapters:

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

HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 8 Update 5.
Version: 222.0.142.0 **(Recommended)**
Filename: libbnxt_re-222.0.142.0-rhel8u5.x86_64.compsig; libbnxt_re-222.0.142.0-rhel8u5.x86_64.rpm; README

Prerequisites

HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 8, version 1.10.2-222.0.142.0 or later, must be installed before installing this product.

The libibverb and rdma-core package must be installed on the target system prior to the installation of the RoCE library. If not already present, the packages can be obtained from the operating system installation media.

Enhancements

initial version

Supported Devices and Features

This product supports the following network adapters:

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

- Broadcom BCM57504 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter for HPE

HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 8
Version: 3.139e-1 **(Recommended)**
Filename: kmod-tg3-3.139e-1.rhel8u5.x86_64.compsig; kmod-tg3-3.139e-1.rhel8u5.x86_64.rpm; README

Important Note!

HPE recommends the firmware provided in *HPE NX1 Broadcom Online Firmware Upgrade Utility for Linux x86_64,* version 2.29.0 or later, for use with these drivers.

Fixes

This product addresses for new feature Receive Packet Steering support.

Supported Devices and Features

These drivers support the following network adapters:

- HPE Ethernet 1Gb 2-port 330i Adapter (22BD)
- HPE Ethernet 1Gb 4-port 331i Adapter (22BE)
- HPE Ethernet 1Gb 4-port 331FLR Adapter
- HPE Ethernet 1Gb 4-port 331T Adapter
- HPE Ethernet 1Gb 2-port 332i Adapter (22E8)
- HPE Ethernet 1Gb 2-port 332T Adapter
- Broadcom BCM5719 Ethernet 1Gb 4-port Base-T Adapter for HPE
- Broadcom BCM5719 Ethernet 1Gb 4-port Base-T OCP3 Adapter for HPE
- Broadcom BCM5720 Ethernet 1Gb 2-port BASE-T LOM Adapter for HPE

HPE Intel iavf Drivers for Red Hat Enterprise Linux 8
Version: 4.5.3-1 **(Recommended)**
Filename: kmod-hp-iavf-4.5.3-1.rhel8u5.x86_64.compsig; kmod-hp-iavf-4.5.3-1.rhel8u5.x86_64.rpm; kmod-hp-iavf-4.5.3-1.rhel8u6.x86_64.compsig; kmod-hp-iavf-4.5.3-1.rhel8u6.x86_64.rpm; README

Important Note!

HPE recommends the firmware provided below,

- *HPE Intel Online Firmware Upgrade Utility for Linux x86_64*, version 1.24.0 or later, for use with these drivers.
- Intel Online Firmware Upgrade Utility for Linux x86_64, version 1.25.0 or later, for use with these drivers.
- Intel Firmware Package For E810, version 4.00 or later, for use with these drivers.

Fixes

This product addresses an issue where command 'tc qdisc show' listing too many queues

Enhancements

This product now supports Red Hat Enterprise Linux 8 Update 6

Supported Devices and Features

This product supports the following network adapters:

- HPE Ethernet 1Gb 2-port 368FLR-MMT Adapter
- HPE Ethernet 1Gb 2-port 368i Adapter
- HPE Ethernet 1Gb 4-port 369i Adapter

- HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter
- HPE Ethernet 10Gb 2-port 562SFP+ Adapter
- HPE Ethernet 10Gb 2-port 563i Adapter
- HPE Ethernet 10Gb 2-port 568FLR-MMSFP+ Adapter
- HPE Ethernet 10Gb 2-port 568FLR-MMT Adapter
- HPE Ethernet 10Gb 2-port 568i Adapter
- HPE Ethernet 10Gb 2-port SFP+ OCP3 X710-DA2 Adapter
- HPE Ethernet 10Gb 2-port SFP+ X710-DA2 Adapter
- Intel E810-2CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE
- 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-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-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE
- Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 MCLK Adapter for HPE
- Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter for HPE

HPE Intel iavf Drivers for Red Hat Enterprise Linux 9
Version: 4.5.3-2 **(Recommended)**
Filename: kmod-hp-iavf-4.5.3-2.rhel9u0.x86_64.compsig; kmod-hp-iavf-4.5.3-2.rhel9u0.x86_64.rpm; README

Important Note!

HPE recommends the firmware provided below,

- *HPE Intel Online Firmware Upgrade Utility for Linux x86_64*, version 1.24.0 or later, for use with these drivers.
- Intel Online Firmware Upgrade Utility for Linux x86_64, version 1.25.0 or later, for use with these drivers.
- Intel Firmware Package For E810, version 4.00 or later, for use with these drivers.

Enhancements

Initial version

Supported Devices and Features

This product supports the following network adapters:

- HPE Ethernet 1Gb 2-port 368FLR-MMT Adapter
- HPE Ethernet 1Gb 2-port 368i Adapter
- HPE Ethernet 1Gb 4-port 369i Adapter
- HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter
- HPE Ethernet 10Gb 2-port 562SFP+ Adapter
- HPE Ethernet 10Gb 2-port 563i Adapter
- HPE Ethernet 10Gb 2-port 568FLR-MMSFP+ Adapter
- HPE Ethernet 10Gb 2-port 568FLR-MMT Adapter
- HPE Ethernet 10Gb 2-port 568i Adapter
- HPE Ethernet 10Gb 2-port SFP+ OCP3 X710-DA2 Adapter
- HPE Ethernet 10Gb 2-port SFP+ X710-DA2 Adapter
- Intel E810-2CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE
- 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-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-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE
- Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 MCLK Adapter for HPE
- Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter for HPE

HPE Intel iavf Drivers for SUSE Linux Enterprise Server 15
Version: 4.5.3-1 **(Recommended)**

Filename: hp-iavf-kmp-default-4.5.3_k5.14.21_150400.22-1.sles15sp4.x86_64.compsig; hp-iavf-kmp-default-4.5.3_k5.14.21_150400.22-1.sles15sp4.x86_64.rpm; README

Important Note!

HPE recommends the firmware provided below,

- *HPE Intel Online Firmware Upgrade Utility for Linux x86_64*, version 1.24.0 or later, for use with these drivers.
- Intel Online Firmware Upgrade Utility for Linux x86_64, version 1.25.0 or later, for use with these drivers.
- Intel Firmware Package For E810, version 4.00 or later, for use with these drivers.

Fixes

This product addresses an issue where command 'tc qdisc show' listing too many queues

Enhancements

This product now supports SUSE Linux Enterprise Server 15 SP4

Supported Devices and Features

This product supports the following network adapters:

- HPE Ethernet 1Gb 2-port 368FLR-MMT Adapter
- HPE Ethernet 1Gb 2-port 368i Adapter
- HPE Ethernet 1Gb 4-port 369i Adapter
- HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter
- HPE Ethernet 10Gb 2-port 562SFP+ Adapter
- HPE Ethernet 10Gb 2-port 563i Adapter
- HPE Ethernet 10Gb 2-port 568FLR-MMSFP+ Adapter
- HPE Ethernet 10Gb 2-port 568FLR-MMT Adapter
- HPE Ethernet 10Gb 2-port 568i Adapter
- HPE Ethernet 10Gb 2-port SFP+ OCP3 X710-DA2 Adapter
- HPE Ethernet 10Gb 2-port SFP+ X710-DA2 Adapter
- Intel E810-2CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE
- 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-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-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE
- Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 MCLK Adapter for HPE
- Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter for HPE

HPE Intel igb Drivers for Red Hat Enterprise Linux 8
Version: 6.11.4-1 **(Recommended)**
Filename: kmod-hp-igb-6.11.4-1.rhel8u5.x86_64.compsig; kmod-hp-igb-6.11.4-1.rhel8u5.x86_64.rpm; kmod-hp-igb-6.11.4-1.rhel8u6.x86_64.compsig; kmod-hp-igb-6.11.4-1.rhel8u6.x86_64.rpm; README

Enhancements

This product now supports Red Hat Enterprise Linux 8 Update 6

Supported Devices and Features

These drivers support the following network adapters:

- HPE Ethernet 1Gb 2-port 361T Adapter
- HPE Ethernet 1Gb 2-port 361i Adapter
- HPE Ethernet 1Gb 2-port 363i Adapter
- HPE Ethernet 1Gb 4-port 366FLR Adapter

- HPE Ethernet 1Gb 4-port 366T Adapter
- HPE Ethernet 1Gb 4-port 366i Adapter
- HPE Ethernet 1Gb 4-port 366i Communication Board
- Intel I350-T4 Ethernet 1Gb 4-port BASE-T Adapter for HPE
- Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE
- Intel(R) I350 Gigabit Network Connection

HPE Intel igb Drivers for Red Hat Enterprise Linux 9
Version: 5.11.4-2 **(Recommended)**
Filename: kmod-hp-igb-5.11.4-2.rhel9u0.x86_64.compsig; kmod-hp-igb-5.11.4-2.rhel9u0.x86_64.rpm; README

Enhancements

Initial version

Supported Devices and Features

These drivers support the following network adapters:

- HPE Ethernet 1Gb 2-port 361T Adapter
- HPE Ethernet 1Gb 2-port 361i Adapter
- HPE Ethernet 1Gb 2-port 363i Adapter
- HPE Ethernet 1Gb 4-port 366FLR Adapter
- HPE Ethernet 1Gb 4-port 366T Adapter
- HPE Ethernet 1Gb 4-port 366i Adapter
- HPE Ethernet 1Gb 4-port 366i Communication Board
- Intel I350-T4 Ethernet 1Gb 4-port BASE-T Adapter for HPE
- Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE
- Intel(R) I350 Gigabit Network Connection

HPE Intel igb Drivers for SUSE Linux Enterprise Server 15
Version: 6.11.4-1 **(Recommended)**
Filename: hp-igb-kmp-default-6.11.4_k5.14.21_150400.22-1.sles15sp4.x86_64.compsig; hp-igb-kmp-default-6.11.4_k5.14.21_150400.22-1.sles15sp4.x86_64.rpm; README

Enhancements

This product now supports SUSE Linux Enterprise Server 15 SP4

Supported Devices and Features

These drivers support the following network adapters:

- HPE Ethernet 1Gb 2-port 361T Adapter
- HPE Ethernet 1Gb 2-port 361i Adapter
- HPE Ethernet 1Gb 2-port 363i Adapter
- HPE Ethernet 1Gb 4-port 366FLR Adapter
- HPE Ethernet 1Gb 4-port 366T Adapter
- HPE Ethernet 1Gb 4-port 366i Adapter
- HPE Ethernet 1Gb 4-port 366i Communication Board
- Intel I350-T4 Ethernet 1Gb 4-port BASE-T Adapter for HPE
- Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE
- Intel(R) I350 Gigabit Network Connection

HPE Intel igbn Driver for VMware vSphere 7.0
Version: 2022.09.01 **(Recommended)**
Filename: cp049913.compsig; cp049913.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.

HPE recommends the firmware provided in *HPE Intel Online Firmware Upgrade Utility for VMware*, version 3.2.0 or later, for use with this driver.

Enhancements

This product now supports HPE ProLiant MicroServer Gen10 Plus v2

Supported Devices and Features

These drivers support the following network adapters:

- HPE Ethernet 1Gb 2-port 361T Adapter
- HPE Ethernet 1Gb 2-port 361i Adapter
- HPE Ethernet 1Gb 2-port 363i Adapter
- HPE Ethernet 1Gb 4-port 366FLR Adapter
- HPE Ethernet 1Gb 4-port 366T Adapter
- HPE Ethernet 1Gb 4-port 366i Adapter
- HPE Ethernet 1Gb 4-port 366i Communication Board
- Intel I350-T4 Ethernet 1Gb 4-port BASE-T Adapter for HPE
- Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE
- Intel(R) I350 Gigabit Network Connection

HPE Mellanox RoCE (RDMA over Converged Ethernet) ConnectX-4, ConnectX-5 and ConnectX-6 Driver for Red Hat Enterprise Linux 8 Update 5 (x86_64)
Version: 5.7 (A) **(Recommended)**
Filename: kmod-mlnx-ofa_kernel-5.7-OFED.5.7.1.0.2.1.rhel8u5.x86_64.compsig; kmod-mlnx-ofa_kernel-5.7-OFED.5.7.1.0.2.1.rhel8u5.x86_64.rpm; mlnx-ofa_kernel-5.7-OFED.5.7.1.0.2.1.rhel8u5.x86_64.compsig; mlnx-ofa_kernel-5.7-OFED.5.7.1.0.2.1.rhel8u5.x86_64.rpm

Important Note!

Mellanox Ethernet + RoCE Linux driver (mlnx-ofa_kernel RPMs) supports only Ethernet mode of operation with RoCE (RDMA over Converged Ethernet) functionality for HPE Mellanox Ethernet-only adapters and HPE Mellanox VPI (Virtual Protocol Interconnect) adapters configured to operate in Ethernet mode. For customers requiring complete InfiniBand functionality or "InfiniBand + Ethernet" modes of operation on the same node, install HPE signed MLNX-OFED drivers from Linux Software Delivery Repository (https://downloads.linux.hpe.com/SDR/project/mlnx_ofed_cx4plus/).

Fixes

The following issues have been fixed in version 5.7(A):

- iLO based deployment failure due to empty <products> tag in component XML file.

The following issues have been fixed in version 5.7:

- Creating multiple steering rules that modify a packet and match on the same packet headers could cause an error to be displayed in dmesg when deleting the steering rules.
- Some IB spec QP state behaviour on post_send()/recv() was not being fully enforced. The fix makes the QP complaint to IB spec about when it is allowed to post_send()/recv() and when it should return an error.
- When changing trust state from PCP to DSCP, the TC number changed by default to 8, in some cases, disrupting traffic prioritization if trust state was changed back to PCP.
- The minimum Tx rate limit was not supported with link speed of 1Gb/s.
- Destroying mlxdevm group while SF was attached to it was not supported.

- Using OVS offload with NIC mode (non switchdev mode) caused traffic to drop.
- In some cases VF metering configuration failure caused a deadlock.
- A race condition occasionally caused some connection aging to set to 24 hours instead of 30 seconds.

Enhancements

Changes and New Features included in version 5.7:

- Added support for exposing error counters on a VPort manager function for all other VPorts. These counters can be used to detect malicious users who are exploiting flows that can slow the device. The counters are exposed through debugfs under: /sys/kernel/debug/mlx5/esw/<func>/vnic_diag/
- Enabled steering of IPoIB packets via Ethtool, in the same way it is done today for Ethernet packets.
- Providing knobs support which enable users to minimize memory consumption of mlx5 functions (PF/VF/SF).
- Health buffer now contains more debug information like the epoch time in sec of the error and the error's severity. The print to dmesg is done with the debug level corresponding to the error's severity. This allows the user to use dmesg attribute: dmesg --level to focus on different severity levels of firmware errors.
- Driver-level support for Application Device Queuescwas included. This feature allows partition defining over the RX/TX queues into groups and isolates traffic of different applications. This mainly improves predictability and tail latency.
- A new software steering action, mlx5dv_dr_action_create_dest_root_table(). This action can be used to forward packets back into a level 0 table. As a table with level 0 is the kernel owned table, this will result in injecting packets to the kernel steering pipeline.
- Added support for plaintext AES-XTS DEKs.

Supported Devices and Features

SUPPORTED KERNELS:

The kernels of Red Hat Enterprise Linux 8 update 5(x86_64) supported by this binary rpm are: 4.18.0-348.el8 - (x86_64) and future update kernels.

HPE Mellanox RoCE (RDMA over Converged Ethernet) ConnectX-4, ConnectX-5 and ConnectX-6 Driver for Red Hat Enterprise Linux 8 Update 6 (x86_64)
Version: 5.7 (A) **(Recommended)**
Filename: kmod-mlnx-ofa_kernel-5.7-OFED.5.7.1.0.2.1.rhel8u6.x86_64.compsig; kmod-mlnx-ofa_kernel-5.7-OFED.5.7.1.0.2.1.rhel8u6.x86_64.rpm; mlnx-ofa_kernel-5.7-OFED.5.7.1.0.2.1.rhel8u6.x86_64.compsig; mlnx-ofa_kernel-5.7-OFED.5.7.1.0.2.1.rhel8u6.x86_64.rpm

Important Note!

Mellanox Ethernet + RoCE Linux driver (mlnx-ofa_kernel RPMs) supports only Ethernet mode of operation with RoCE (RDMA over Converged Ethernet) functionality for HPE Mellanox Ethernet-only adapters and HPE Mellanox VPI (Virtual Protocol Interconnect) adapters configured to operate in Ethernet mode. For customers requiring complete InfiniBand functionality or "InfiniBand + Ethernet" modes of operation on the same node, install HPE signed MLNX-OFED drivers from Linux Software Delivery Repository (https://downloads.linux.hpe.com/SDR/project/mlnx_ofed_cx4plus/).

Fixes

The following issues have been fixed in version 5.7(A):

- iLO based deployment failure due to empty <products> tag in component XML file.

The following issues have been fixed in version 5.7:

- Creating multiple steering rules that modify a packet and match on the same packet headers could cause an error to be displayed in dmesg when deleting the steering rules.
- Some IB spec QP state behaviour on post_send()/recv() was not being fully enforced. The fix makes the QP complaint to IB spec about when it is allowed to post_send()/recv() and when it should return an error.
- When changing trust state from PCP to DSCP, the TC number changed by default to 8, in some cases, disrupting traffic prioritization if trust state was changed back to PCP.
- The minimum Tx rate limit was not supported with link speed of 1Gb/s.
- Destroying mlxdevm group while SF was attached to it was not supported.
- Using OVS offload with NIC mode (non switchdev mode) caused traffic to drop.
- In some cases VF metering configuration failure caused a deadlock.
- A race condition occasionally caused some connection aging to set to 24 hours instead of 30 seconds.

Enhancements

Changes and New Features included in version 5.7:

- Added support for exposing error counters on a VPort manager function for all other VPorts. These counters can be used to detect malicious users who are exploiting flows that can slow the device. The counters are exposed through debugfs under: /sys/kernel/debug/mlx5/esw/<func>/vnic_diag/
- Enabled steering of IPoIB packets via Ethtool, in the same way it is done today for Ethernet packets.
- Providing knobs support which enable users to minimize memory consumption of mlx5 functions (PF/VF/SF).
- Health buffer now contains more debug information like the epoch time in sec of the error and the error's severity. The print to dmesg is done with the debug level corresponding to the error's severity. This allows the user to use dmesg attribute: dmesg --level to focus on different severity levels of firmware errors.
- Driver-level support for Application Device Queuescwas included. This feature allows partition defining over the RX/TX queues into groups and isolates traffic of different applications. This mainly improves predictability and tail latency.
- A new software steering action, mlx5dv_dr_action_create_dest_root_table(). This action can be used to forward packets back into a level 0 table. As a table with level 0 is the kernel owned table, this will result in injecting packets to the kernel steering pipeline.
- Added support for plaintext AES-XTS DEKs.

Supported Devices and Features

SUPPORTED KERNELS:

The kernels of Red Hat Enterprise Linux 8 update 6(x86_64) supported by this binary rpm are:
4.18.0-372.9.1.el8 - (x86_64) and future update kernels.

HPE Mellanox RoCE (RDMA over Converged Ethernet) ConnectX-4, ConnectX-5 and ConnectX-6 Driver for Red Hat Enterprise Linux 9 Update 0 (x86_64)
Version: 5.7 **(Recommended)**
Filename: kmod-mlnx-ofa_kernel-5.7-OFED.5.7.1.0.2.1.202209280325.rhel9u0.x86_64.compsig; kmod-mlnx-ofa_kernel-5.7-OFED.5.7.1.0.2.1.202209280325.rhel9u0.x86_64.rpm; mlnx-ofa_kernel-5.7-OFED.5.7.1.0.2.1.rhel9u0.x86_64.compsig; mlnx-ofa_kernel-5.7-OFED.5.7.1.0.2.1.rhel9u0.x86_64.rpm

Important Note!

Mellanox Ethernet + RoCE Linux driver (mlnx-ofa_kernel RPMs) supports only Ethernet mode of operation with RoCE (RDMA over Converged Ethernet) functionality for HPE Mellanox Ethernet-only adapters and HPE Mellanox VPI (Virtual Protocol Interconnect) adapters configured to operate in Ethernet mode. For customers requiring complete InfiniBand functionality or "InfiniBand + Ethernet" modes of operation on the same node, install HPE signed MLNX-OFED drivers from Linux Software Delivery Repository (https://downloads.linux.hpe.com/SDR/project/mlnx_ofed_cx4plus/).

Fixes

The following issues have been fixed in version 5.7:

- Creating multiple steering rules that modify a packet and match on the same packet headers could cause an error to be displayed in dmesg when deleting the steering rules.
- Some IB spec QP state behaviour on post_send()/recv() was not being fully enforced. The fix makes the QP complaint to IB spec about when it is allowed to post_send()/recv() and when it should return an error.
- When changing trust state from PCP to DSCP, the TC number changed by default to 8, in some cases, disrupting traffic prioritization if trust state was changed back to PCP.
- The minimum Tx rate limit was not supported with link speed of 1Gb/s.
- Destroying mlxdevm group while SF was attached to it was not supported.
- Using OVS offload with NIC mode (non switchdev mode) caused traffic to drop.
- In some cases VF metering configuration failure caused a deadlock.
- A race condition occasionally caused some connection aging to set to 24 hours instead of 30 seconds.

Enhancements

Changes and New Features included in version 5.7:

- Added support for exposing error counters on a VPort manager function for all other VPorts. These counters can be used to detect malicious users who are exploiting flows that can slow the device. The counters are exposed through debugfs under: /sys/kernel/debug/mlx5/esw/<func>/vnic_diag/
- Enabled steering of IPoIB packets via Ethtool, in the same way it is done today for Ethernet packets.
- Providing knobs support which enable users to minimize memory consumption of mlx5 functions (PF/VF/SF).
- Health buffer now contains more debug information like the epoch time in sec of the error and the error's severity. The print to dmesg is done with the debug level corresponding to the error's severity. This allows the user to use dmesg attribute: dmesg --level to focus on different severity levels of firmware errors.
- Driver-level support for Application Device Queuescwas included. This feature allows partition defining over the RX/TX queues into groups and isolates traffic of different applications. This mainly improves predictability and tail latency.
- A new software steering action, mlx5dv_dr_action_create_dest_root_table(). This action can be used to forward packets back into a level 0 table. As a table with level 0 is the kernel owned table, this will result in injecting packets to the kernel steering pipeline.
- Added support for plaintext AES-XTS DEKs.

Supported Devices and Features

SUPPORTED KERNELS:

The kernels of Red Hat Enterprise Linux 9 update 0(x86_64) supported by this binary rpm are: 5.14.0-70.22.1.el9_0 - (x86_64) and future update kernels.

HPE Mellanox RoCE (RDMA over Converged Ethernet) ConnectX-4, ConnectX-5 and ConnectX-6 Driver for SUSE LINUX Enterprise Server 15 SP4 (AMD64/EM64T)
Version: 5.7 (A) **(Recommended)**
Filename: mlnx-ofa_kernel-5.7-OFED.5.7.1.0.2.1.sles15sp4.x86_64.compsig; mlnx-ofa_kernel-5.7-OFED.5.7.1.0.2.1.sles15sp4.x86_64.rpm; mlnx-ofa_kernel-kmp-default-5.7_k5.14.21_150400.22-OFED.5.7.1.0.2.1.sles15sp4.x86_64.compsig; mlnx-ofa_kernel-kmp-default-5.7_k5.14.21_150400.22-OFED.5.7.1.0.2.1.sles15sp4.x86_64.rpm

Important Note!

Mellanox Ethernet + RoCE Linux driver (mlnx-ofa_kernel RPMs) supports only Ethernet mode of operation with RoCE (RDMA over Converged Ethernet) functionality for HPE Mellanox Ethernet-only adapters and HPE Mellanox VPI (Virtual Protocol Interconnect) adapters configured to operate in Ethernet mode. For customers requiring complete InfiniBand functionality or "InfiniBand + Ethernet" modes of operation on the same node, install HPE signed MLNX-OFED drivers from Linux Software Delivery Repository (https://downloads.linux.hpe.com/SDR/project/mlnx_ofed_cx4plus/).

Prerequisites

Following packages must be installed from the respective OS distributions prior to installing the driver component:

- Python version 2.7

Fixes

The following issues have been fixed in version 5.7(A):

- iLO based deployment failure due to empty <products> tag in component XML file.

The following issues have been fixed in version 5.7:

- Creating multiple steering rules that modify a packet and match on the same packet headers could cause an error to be displayed in dmesg when deleting the steering rules.
- Some IB spec QP state behaviour on post_send()/recv() was not being fully enforced. The fix makes the QP complaint to IB spec about when it is allowed to post_send()/recv() and when it should return an error.
- When changing trust state from PCP to DSCP, the TC number changed by default to 8, in some cases, disrupting traffic prioritization if trust state was changed back to PCP.
- The minimum Tx rate limit was not supported with link speed of 1Gb/s.
- Destroying mlxdevm group while SF was attached to it was not supported.
- Using OVS offload with NIC mode (non switchdev mode) caused traffic to drop.
- In some cases VF metering configuration failure caused a deadlock.
- A race condition occasionally caused some connection aging to set to 24 hours instead of 30 seconds.

Enhancements

Changes and New Features included in version 5.7:

- Added support for exposing error counters on a VPort manager function for all other VPorts. These counters can be used to detect malicious users who are exploiting flows that can slow the device. The counters are exposed through debugfs under: /sys/kernel/debug/mlx5/esw/<func>/vnic_diag/
- Enabled steering of IPoIB packets via Ethtool, in the same way it is done today for Ethernet packets.
- Providing knobs support which enable users to minimize memory consumption of mlx5 functions (PF/VF/SF).
- Health buffer now contains more debug information like the epoch time in sec of the error and the error's severity. The print to dmesg is done with the debug level corresponding to the error's severity. This allows the user to use dmesg attribute: dmesg --level to focus on different severity levels of firmware errors.
- Driver-level support for Application Device Queuescwas included. This feature allows partition defining over the RX/TX queues into groups and isolates traffic of different applications. This mainly improves predictability and tail latency.
- A new software steering action, mlx5dv_dr_action_create_dest_root_table(). This action can be used to forward packets back into a level 0 table. As a table with level 0 is the kernel owned table, this will result in injecting packets to the kernel steering pipeline.

- Added support for plaintext AES-XTS DEKs.

Supported Devices and Features

SUPPORTED KERNELS:

The kernels of SUSE LINUX Enterprise Server 15 SP4 (AMD64/EM64T) supported by this binary rpm are:
5.14.21-150400.17-default - (AMD64/EM64T) and future update kernels.

Intel i350 Driver for Windows Server 2019
Version: 12.18.13.0 **(Recommended)**
Filename: cp051875.compsig; cp051875.exe

Important Note!

HPE recommends the firmware provided in *Intel Online Firmware Upgrade Utility for Windows Server x64 Editions*, version 5.2.8.0 or later, for use with this driver.

Enhancements

This product now supports the following new server.

- HPE ProLiant MicroServer Gen10 Plus v2

Supported Devices and Features

This driver supports the following HPE Intel E1R network adapters:

- HPE Ethernet 1Gb 4-port BaseT I350-T4 Adapter
- HPE Ethernet 1Gb 4-port BaseT I350-T4 OCP3 Adapter
- Intel(R) I350 Gigabit Network Connection

Intel i350 Driver for Windows Server 2022
Version: 13.0.13.0 **(Recommended)**
Filename: cp051876.compsig; cp051876.exe

Important Note!

HPE recommends the firmware provided in *Intel Online Firmware Upgrade Utility for Windows Server x64 Editions*, version 5.2.8.0 or later, for use with this driver.

Enhancements

This product now supports the following new server.

- HPE ProLiant MicroServer Gen10 Plus v2

Supported Devices and Features

This driver supports the following HPE Intel E1R network adapters:

- HPE Ethernet 1Gb 4-port BaseT I350-T4 Adapter
- HPE Ethernet 1Gb 4-port BaseT I350-T4 OCP3 Adapter
- Intel(R) I350 Gigabit Network Connection

Intel iavf Driver for Windows Server 2019
Version: 1.13.8.0 (B) **(Recommended)**
Filename: cp051144.compsig; cp051144.exe

Important Note!

HPE recommends the firmware provided in *Intel Online Firmware Upgrade Utility for Windows Server x64 Editions*, version 5.3.0.0 or later, for use with this driver.

Prerequisites

This driver requires host driver version the following:

- Intel i40ea Driver version 1.16.62.0 or later.
- Intel icea Driver version 1.9.65.0 or later.

Enhancements

This product now supports Gen11 platfroms.

Supported Devices and Features

This product supports the following Intel VFnetwork adapters:

- HPE Ethernet 10Gb 2-port SFP+ OCP3 X710-DA2 Adapter
- HPE Ethernet 10Gb 2-port SFP+ X710-DA2 Adapter
- Intel E810-2CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE
- 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-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-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE
- Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter for HPE

Intel iavf Driver for Windows Server 2022
Version: 1.13.8.0 (B) **(Recommended)**
Filename: cp051859.compsig; cp051859.exe

Important Note!

HPE recommends the firmware provided in *Intel Online Firmware Upgrade Utility for Windows Server x64 Editions*, version 5.2.8.0 or later, for use with this driver.

Prerequisites

This driver requires host driver version the following:

- Intel i40ea Driver version 1.16.202.0 or later.
- Intel icea Driver version 1.11.44.0 or later.

Enhancements

This product now supports the following new server.

- HPE ProLiant MicroServer Gen10 Plus v2

Supported Devices and Features

This product supports the following Intel VFnetwork adapters:

- HPE Ethernet 10Gb 2-port SFP+ OCP3 X710-DA2 Adapter
- HPE Ethernet 10Gb 2-port SFP+ X710-DA2 Adapter
- Intel E810-2CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE
- 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-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-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE
- Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter for HPE

Intel ice Drivers for Red Hat Enterprise Linux 8
Version: 1.9.11-1 **(Recommended)**
Filename: kmod-ice-1.9.11-1.rhel8u5.x86_64.compsig; kmod-ice-1.9.11-1.rhel8u5.x86_64.rpm; kmod-ice-1.9.11-1.rhel8u6.x86_64.compsig; kmod-ice-1.9.11-1.rhel8u6.x86_64.rpm; README

Important Note!

HPE recommends the firmware provided in *Intel Firmware Package For E810 Ethernet Adapter,* version 4.00 or later, for use with these drivers.

Fixes

This product addresses an issue where initial support for Scalable I/O Virtualization

Enhancements

- This product now supports Red Hat Enterprise Linux 8 Update 6
- This product refactors MSI-X interrupts allocation

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
- Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 MCLK Adapter for HPE

Intel ice Drivers for Red Hat Enterprise Linux 9
Version: 1.9.11-2 **(Recommended)**
Filename: kmod-ice-1.9.11-2.rhel9u0.x86_64.compsig; kmod-ice-1.9.11-2.rhel9u0.x86_64.rpm; README

Important Note!

HPE recommends the firmware provided in *Intel Firmware Package For E810 Ethernet Adapter,* version 4.00 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
- Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 MCLK Adapter for HPE

Intel ice Drivers for SUSE Linux Enterprise Server 15
Version: 1.9.11-1 **(Recommended)**
Filename: ice-kmp-default-1.9.11_k5.14.21_150400.22-1.sles15sp4.x86_64.compsig; ice-kmp-default-1.9.11_k5.14.21_150400.22-1.sles15sp4.x86_64.rpm; README

Important Note!

HPE recommends the firmware provided in *Intel Firmware Package For E810 Ethernet Adapter,* version 4.00 or later, for use with these drivers.

Fixes

This product addresses an issue where initial support for Scalable I/O Virtualization

Enhancements

- This product now supports SUSE Linux Enterprise Server 15 SP4
- This product refactors MSI-X interrupts allocation

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
- Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 MCLK Adapter for HPE

Intel icea Driver for Microsoft Windows Server 2022
Version: 1.12.144.0 **(Recommended)**
Filename: cp051145.compsig; cp051145.exe

Important Note!

HPE recommends the firmware provided in *Intel Firmware Package for Columbiaville* (FWPKG), version 4.00 or later, for use with this driver.

Fixes

This product correct an issue which fixes verifier crash when using netstat for RDMA.

Enhancements

This product now supports Gen11 platfroms.

Supported Devices and Features

This driver supports the following HPE Intel ICEA network adapters:

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

Intel icea Driver for Windows Server 2019
Version: 1.12.144.0 **(Recommended)**
Filename: cp051143.compsig; cp051143.exe

Important Note!

HPE recommends the firmware provided in *Intel Firmware Package for Columbiaville* (FWPKG), version 4.00 or later, for use with this driver.

Fixes

This product correct an issue which fixes verifier crash when using netstat for RDMA.

Enhancements

This product now supports Gen11 platfroms.

Supported Devices and Features

This driver supports the following HPE Intel ICEA network adapters:

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

Intel icen Driver for VMware vSphere 7.0
Version: 2022.11.00 **(Optional)**
Filename: cp054436.compsig; cp054436.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.

HPE recommends the firmware provided in *Intel Firmware Package For E810 Ethernet Adapter*, version 3.20 or later, for use with this driver.

Enhancements

- This product enhances to Collect of FW debug data in different scenarios
- This product now supports HPE ProLiant Gen11 servers

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

Mellanox ConnectX-4, ConnectX-5 and ConnectX-6 "nmlx5_en" Driver Component for VMware ESXi 7.0 Update 2 and Update 3
Version: 2021.04.21 (D) **(Recommended)**
Filename: cp054406.compsig; cp054406.zip

Important Note!

Important: Version 4.21.71.1 supports VMware ESXi 7.0 Update 2 and Update 3 only.

Known Issues with driver version 4.21.71.101:

- A mismatch between the uplink and the VF MTU values may result in CQE with error.
  Workaround:: Align the uplink and the VF MTU values.
- Enabling sriov_mc_isolation module parameter may result in vmknic and emulated NICs multicast and IPv6 traffic loss.
  Workaround: Unset or set the module parameter to 0.
- RDMA is not supported in the Hypervisor with ENS (Enhanced Network Stack) model 2.
- Setting the "Allow Guest MTU Change" option in vSphere Client is currently not functional. Although guest MTU changes in SR-IOV are allowed, they do not affect the port's MTU and the guest's MTU remains the same as the PF MTU.
- ECN (Explicit congestion notification) statistic counters accumulatorsPeriod and ecnMarkedRocePackets display wrong values and cannot be cleared.
- ECN tunable parameter initialAlphaValue for the Reaction Point protocol cannot be modified.
- Card's speed remains zero after port goes down and reboot is performed.
- RoCE traffic may fail after vMotion when using namespace.
- Legacy SR-IOV is not supported with Model 1.
- When in ENS mode, changing the scheduler to HCLK, may cause traffic loss.
- The 'esxcli mellanox uplink link info -u <vmnic_name>' command reports the 'Auto negotiation' capability always as 'true'.
- SMP MADs (ibnetdiscover, sminfo, iblinkinfo, smpdump, ibqueryerr, ibdiagnet and smpquery) are not supported on the VFs.
- Although the max_vfs module parameter range is "0-128", due to firmware limitations, the following are the supported VFs per single port devices:
  - ConnectX-4 / ConnectX-5: up to 127

Fixes

Fixes included in driver version 4.21.71.101:

- Fixed a compatibility issue with VMware Update Manager as it wouldn't accept a bundle with metadata xml with old versioning scheme. The metadata xml now contains the new versioning scheme.

Enhancements

The following changes have been made in sub-version 2021.04.21(D):

- Product rebuilt to have the new SHA 384 signature.

- Removed support for the following servers:
  - Blade servers BLxxxx Gen9/Gen10 series.
- Included support for Gen11 Servers.

New features and changes in driver version 4.21.71.101:

- Added support for the following features:
  - vSan over RDMA.
  - Receive Side Scaling (RSS) for ENS model 0.
  - ENS FPO Model 1 with Rx path flow lookup offloaded (ConnectX5 onwards)
  - ENS FPO Model 1 with Tx path partial action execution offloaded (ConnectX5 onwards)
  - ENS FPO Model 2 with SR-IOV as passthrough technology (ConnectX5 onwards)
  - 200GbE link speed.
  - ConnectX-6 Lx devices.
  - Data Center Bridging Capability Exchange (DCBX) protocol with hardware offload.
  - sriov_mc_isolation module parameter to isolate multicast traffic to SR-IOV interfaces. Default value is OFF.
  - ens_fallback_model to set the default fallback mode when the option to query ENS model from the OS is no supported. Default to Model 1.
- Scaled support for up to 10K connections over RDMA networks.
- Updated the kernel parameter "supported_num_ports" default value to 1 to lower memory constraints. Note: The user must set a value corresponding to the amount of ports installed in the system.

Supported Devices and Features

HPE Part Number	Device Name	PSID
P24837-B21	HPE Ethernet 10/25Gb 2-port 642SFP28 Adapter	HPE0000000054
P11338-B21	HPE Ethernet 10Gb 2-port 548SFP+ Adapter	HP_1200111023
825110-B21	HPE InfiniBand EDR/Ethernet 100Gb 1-port 840QSFP28 Adapter	HP_2180110032
825111-B21	HPE InfiniBand EDR/Ethernet 100Gb 2-port 840QSFP28 Adapter	HP_2190110032
872726-B21	HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter	HPE0000000009
879482-B21	HPE InfiniBand FDR/Ethernet 40/50Gb 2-port 547FLR-QSFP Adapter	HPE0000000022
817749-B21	HPE Ethernet 10/25Gb 2-port FLR-SFP28 MCX4121A-ACFT Adapter	HP_2690110034
817753-B21	HPE Ethernet 10/25Gb 2-port SFP28 MCX4121A-ACUT Adapter	HP_2420110034
P21927-B21	HPE Ethernet 100Gb 2-port QSFP28 MCX516A-CCHT Adapter	MT_0000000417
P10112-B21	Mellanox MCX562A-ACAI Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE	MT_0000000241
P13188-B21	Mellanox MCX512F-ACHT Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	MT_0000000416
P11341-B21	HPE Ethernet 10Gb 2-port SFP+ MCX4621A-ACAB OCP3 Adapter	MT_0000000238
P21930-B21	HPE Ethernet 10Gb 2-port SFP+ MCX4121A-XCHT Adapter	MT_0000000414
874253-B21	HPE Ethernet 100Gb 1-port QSFP28 MCX515A-CCAT Adapter	HPE0000000014
P25960-B21	Mellanox MCX623106AS-CDAT Ethernet 100Gb 2-port QSFP56 Adapter for HPE	MT_0000000437
P06154-B21	HPE InfiniBand HDR/Ethernet 200Gb 1-port QSFP56 PCIe3 x16 MCX653105A-HDAT Adapter	HPE0000000034
P06250-B21	HPE InfiniBand HDR100/Ethernet 100Gb 1-port QSFP56 PCIe3 x16 MCX653105A-ECAT Adapter	HPE0000000035

P06251-B21	HPE InfiniBand HDR100/Ethernet 100Gb 2-port QSFP56 PCIe3 x16 MCX653106A-ECAT Adapter	HPE0000000036
P23664-B21	HPE InfiniBand HDR/Ethernet 200Gb 1-port QSFP56 PCIe4 x16 MCX653105A-HDAT Adapter	MT_0000000451
P23665-B21	HPE InfiniBand HDR100/Ethernet 100Gb 1-port QSFP56 PCIe4 x16 MCX653105A-ECAT Adapter	MT_0000000452
P23666-B21	HPE InfiniBand HDR100/Ethernet 100Gb 2-port QSFP56 PCIe4 x16 MCX653106A-ECAT Adapter	MT_0000000453
P10180-B21	Mellanox MCX623105AS-VDAT Ethernet 200Gb 1-port QSFP56 Adapter for HPE	MT_0000000435
P31246-B21	HPE Ethernet 100Gb 1-port QSFP28 PCIe3 x16 MCX515A-CCAT Adapter	MT_0000000591
P31323-B21	HPE InfiniBand HDR/Ethernet 200Gb 1-port QSFP56 PCIe4 x16 OCP3 MCX653435A-HDAI Adapter	MT_0000000592
P31348-B21	HPE InfiniBand HDR/Ethernet 200Gb 2-port QSFP56 PCIe4 x16 OCP3 MCX653436A-HDAI Adapter	MT_0000000593
P31324-B21	HPE InfiniBand HDR/Ethernet 200Gb 2-port QSFP56 PCIe4 x16 MCX653106A-HDAT Adapter	MT_0000000594
P42041-B21	Mellanox MCX631432AS-ADAI Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE	MT_0000000551
P42044-B21	Mellanox MCX631102AS-ADAT Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	MT_0000000575

Mellanox CX5 and CX6DX Driver for Microsoft Windows Server 2019
Version: 3.0.25668.0 **(Recommended)**
Filename: cp053064.compsig; cp053064.exe

Fixes

- This product correct an issue which allowed using wrong IPv4 DHCP ports for IPv6 DHCP.
- This product correct an issue which showed the ingress traffic for IB ports in the system counter-sets like "Network Interface" and "network Adapter".

Enhancements

This product now supports Gen11 platfroms.

Supported Devices and Features

This driver supports the following network adapters:

- HPE Ethernet 10/25Gb 2-port SFP28 MCX512F-ACHT Adapter
- HPE Ethernet 10/25Gb 2-port SFP28 MCX562A-ACAI OCP3 Adapter
- HPE Ethernet 100Gb 2-Port QSFP56 MCX623106AS-CDAT Adapter
- HPE Ethernet 100Gb 2-port QSFP28 MCX516A-CCHT Adapter
- HPE Ethernet 10Gb 2-port SFP+ MCX4121A-XCHT Adapter
- HPE Ethernet 10Gb/25Gb 2-port SFP28 MCX4621A-ACAB OCP3 Adapter
- Mellanox MCX623105AS-VDAT Ethernet 200Gb 1-port QSFP56 Adapter for HPE
- Mellanox MCX631102AS-ADAT Ethernet 10/25Gb 2-port SFP28 Adapter for HPE
- Mellanox MCX631432AS-ADAI Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE

Mellanox CX5 and CX6DX Driver for Microsoft Windows Server 2022
Version: 3.0.25668.0 **(Recommended)**
Filename: cp053065.compsig; cp053065.exe

Fixes

- This product correct an issue which allowed using wrong IPv4 DHCP ports for IPv6 DHCP.
- This product correct an issue which showed the ingress traffic for IB ports in the system counter-sets like "Network Interface" and "network Adapter".

Enhancements

This product now supports Gen11 platfroms

Supported Devices and Features

This driver supports the following network adapters:

- HPE Ethernet 10/25Gb 2-port SFP28 MCX512F-ACHT Adapter
- HPE Ethernet 10/25Gb 2-port SFP28 MCX562A-ACAI OCP3 Adapter
- HPE Ethernet 100Gb 2-Port QSFP56 MCX623106AS-CDAT Adapter
- HPE Ethernet 100Gb 2-port QSFP28 MCX516A-CCHT Adapter
- HPE Ethernet 10Gb 2-port SFP+ MCX4121A-XCHT Adapter
- HPE Ethernet 10Gb/25Gb 2-port SFP28 MCX4621A-ACAB OCP3 Adapter
- Mellanox MCX623105AS-VDAT Ethernet 200Gb 1-port QSFP56 Adapter for HPE
- Mellanox MCX631102AS-ADAT Ethernet 10/25Gb 2-port SFP28 Adapter for HPE
- Mellanox MCX631432AS-ADAI Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE

Driver - Storage Controller Top

HPE MR416i-a, MR416i-p, MR216i-a, MR216i-p, MR416i-o controller (64-bit) Driver for vSphere 7.0
Version: 7.722.02.00 **(Recommended)**
Filename: Broadcom-lsi-mr3_7.722.02.00-1OEM.700.1.0.15843807_20225841.zip

Enhancements

.

HPE MR416i-p, MR216i-p Gen10 plus and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen11 controller (64-bit) Driver for vSphere 7.0
Version: 2022.11.01 **(Recommended)**
Filename: cp051736.compsig; cp051736.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.

Enhancements

- Initial release

HPE MR416i-p, MR216i-p Gen10 plus and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen11 controller Driver for 64-bit Red Hat Enterprise Linux 8
Version: 07.722.02.00 **(Recommended)**
Filename: kmod-megaraid_sas-07.722.02.00_rhel8u5-1.x86_64.compsig; kmod-megaraid_sas-07.722.02.00_rhel8u5-1.x86_64.rpm

Enhancements

Initial Release

Supported Devices and Features

SUPPORTED KERNELS:
The kernels of Red Hat Enterprise Linux 8 (64-bit) supported by this binary rpm are:
4.18.0-193.el8- Red Hat Enterprise Linux 8 Update 2 (64-bit) and future errata kernels for update 2.
4.18.0-240.el8- Red Hat Enterprise Linux 8 Update 3 (64-bit) and future errata kernels for update 3.

HPE MR416i-p, MR216i-p Gen10 plus and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen11 controller Driver for Microsoft Windows 2019 edition
Version: 7.722.6.0 **(Recommended)**
Filename: cp050675.compsig; cp050675.exe

Enhancements

Initial Release.

HPE MR416i-p, MR216i-p Gen10 plus and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen11 controller driver for Microsoft Windows 2022 edition
Version: 7.722.6.0 **(Recommended)**
Filename: cp050674.compsig; cp050674.exe

Enhancements

Initial Release.

HPE ProLiant Gen11 Smart RAID Controller Driver for VMware vSphere 7.0 (Bundle file)
Version: 70.4330.0.116 (B) **(Recommended)**
Filename: Microchip-smartpqi_70.4330.0.116-1OEM.700.1.0.15843807_20200549.zip

Enhancements

Initial Release

HPE ProLiant Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 8 (64-bit) for Gen11 Servers.
Version: 2.1.18-045 (C) **(Recommended)**
Filename: kmod-smartpqi-2.1.18-045.rhel8u5.x86_64.compsig; kmod-smartpqi-2.1.18-045.rhel8u5.x86_64.rpm; kmod-smartpqi-2.1.18-045.rhel8u6.x86_64.compsig; kmod-smartpqi-2.1.18-045.rhel8u6.x86_64.rpm

Enhancements

Initial driver release for Gen11 servers.

Supported Devices and Features

SUPPORTED KERNELS:
The kernels of Red Hat Enterprise Linux8 (64-bit) supported by this binary rpm are:
-default- Red Hat Enterprise Linux 8 Update 0 (64-bit).

HPE ProLiant Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 9 (64-bit) for Gen11 Servers.
Version: 2.1.18-045 (C) **(Recommended)**
Filename: kmod-smartpqi-2.1.18-045.rhel9u0.x86_64.compsig; kmod-smartpqi-2.1.18-045.rhel9u0.x86_64.rpm

Enhancements

Initial driver release for Gen11 servers.

HPE ProLiant Smart Array Controller (64-bit) Driver for SUSE LINUX Enterprise Server 15 (64-bit) for Gen11 Servers.
Version: 2.1.18-045 (E) **(Recommended)**
Filename: smartpqi-kmp-default-2.1.18-045.sles15sp4.x86_64.compsig; smartpqi-kmp-default-2.1.18-045.sles15sp4.x86_64.rpm

Enhancements

Initial driver release for Gen11 servers.

Supported Devices and Features

The kernels of SUSE LINUX Enterprise Server 15 (64-bit) supported by this driver diskette are:
-default - SUSE LINUX Enterprise Server 15 (64-bit) and future errata kernels

---

HPE ProLiant Smart RAID Controller Driver for VMware vSphere 7.0 (Driver Component) for Gen11 Servers.
Version: 2022.10.01 (C) **(Recommended)**
Filename: cp054895.compsig; cp054895.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, plus an HPE specific CPXXXX.xml file.

Enhancements

Initial driver release for Gen11 servers.

HPE Smart Array Controller Driver for Windows Server 2019 and Windows Server 2022 for Gen11 Servers.
Version: 1010.42.0.1020 (C) **(Recommended)**
Filename: cp054893.compsig; cp054893.exe

Enhancements

Initial driver release for Gen11 servers.

Driver - Storage Fibre Channel and Fibre Channel Over Ethernet **Top**

HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Microsoft Windows Server 2019
Version: 14.0.534.0 **(Recommended)**
Filename: cp050064.compsig; cp050064.exe

Prerequisites

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

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

Enhancements

Updated to driver version 14.0.534.0

The raw driver files can be obtained by extracting the Smart Component and then extracting the Emulex installer. Use this command:

elxdrvr-fc-version.exe /q2 extract=2

The extracted files are located:

C:\Users\Administrator\Documents\Emulex\Drivers\FC-version

Each kit folder has subsequent architecture folders with subsequent OS folders. For example,

C:\Users\Administrator\Documents\Emulex\Drivers\FC-version\x64\win2019

Supported Devices and Features

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

32Gb FC Adapter:

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

64Gb FC Adapter:

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

---

HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Microsoft Windows Server 2022
Version: 14.0.534.0 **(Recommended)**
Filename: cp050065.compsig; cp050065.exe

Prerequisites

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

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

Enhancements

Updated to driver version 14.0.534.0

The raw driver files can be obtained by extracting the Smart Component and then extracting the Emulex installer. Use this command:

elxdrvr-fc-version.exe /q2 extract=2

The extracted files are located:

C:\Users\Administrator\Documents\Emulex\Drivers\FC-version

Each kit folder has subsequent architecture folders with subsequent OS folders. For example,

C:\Users\Administrator\Documents\Emulex\Drivers\FC-version\x64\win2019

Supported Devices and Features

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

32Gb FC Adapter:

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

64Gb FC Adapter:

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

---

HPE Storage Fibre Channel Adapter Kit for the x64 QLogic Storport Driver for Microsoft Windows Server 2019
Version: 9.4.6.20 **(Recommended)**
Filename: cp050078.compsig; cp050078.exe

Important Note!

Release Notes:
HPE QLogic Adapters Release Notes

Prerequisites

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

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

Enhancements

Updated to version 9.4.6.20

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

---

HPE Storage Fibre Channel Adapter Kit for the x64 QLogic Storport Driver for Microsoft Windows Server 2022
Version: 9.4.6.20 **(Recommended)**
Filename: cp050079.compsig; cp050079.exe

Prerequisites

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

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

Enhancements

Updated to version 9.4.6.20

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

---

Red Hat Enterprise Linux 8 Update 5 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters
Version: 14.0.499.20 **(Recommended)**
Filename: kmod-elx-lpfc-14.0.499.20-1.rhel8u5.x86_64.compsig; kmod-elx-lpfc-14.0.499.20-1.rhel8u5.x86_64.rpm

Important Note!

Release Notes:
HPE Emulex Adapters Release Notes

Prerequisites

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

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

Enhancements

Updated to driver version 14.0.499.20

Supported Devices and Features

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

32Gb FC Adapter:

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

64Gb FC Adapter:

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

---

Red Hat Enterprise Linux 8 Update 5 Server Fibre Channel Driver Kit for HPE QLogic Host Bus Adapters
Version: 10.02.07.00-k1 **(Recommended)**
Filename: kmod-qlgc-qla2xxx-10.02.07.00_k1-1.rhel8u5.x86_64.compsig; kmod-qlgc-qla2xxx-10.02.07.00_k1-1.rhel8u5.x86_64.rpm

Important Note!

Release Notes:

HPE QLogic Adapters Release Notes

NOTE:

1. The rpm base-name for the QLogic driver has been changed to "qlgc". Upgrades from the earlier "hpqlgc" driver are supported.

Prerequisites

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

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

Enhancements

Updated to driver version 10.02.07.00-k1

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

---

Red Hat Enterprise Linux 8 Update 6 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters
Version: 14.0.499.20 **(Recommended)**
Filename: kmod-elx-lpfc-14.0.499.20-1.rhel8u6.x86_64.compsig; kmod-elx-lpfc-14.0.499.20-1.rhel8u6.x86_64.rpm

Prerequisites

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

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

Enhancements

Updated to driver version 14.0.499.20

Supported Devices and Features

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

32Gb FC Adapter:

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

64Gb FC Adapter:

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

---

Red Hat Enterprise Linux 8 Update 6 Server Fibre Channel Driver Kit for HPE QLogic Host Bus Adapters
Version: 10.02.07.00-k1 **(Recommended)**
Filename: kmod-qlgc-qla2xxx-10.02.07.00_k1-1.rhel8u6.x86_64.compsig; kmod-qlgc-qla2xxx-10.02.07.00_k1-1.rhel8u6.x86_64.rpm

Important Note!

Release Notes:

HPE QLogic Adapters Release Notes

NOTE:

1. The rpm base-name for the QLogic driver has been changed to "qlgc". Upgrades from the earlier "hpqlgc" driver are supported.

Prerequisites

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

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

Enhancements

Updated Driver version 10.02.07.00_k1-1

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

---

Red Hat Enterprise Linux 9 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters
Version: 14.0.499.20 **(Recommended)**
Filename: kmod-elx-lpfc-14.0.499.20-1.rhel9u0.x86_64.compsig; kmod-elx-lpfc-14.0.499.20-1.rhel9u0.x86_64.rpm

Prerequisites

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

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

Enhancements

Updated to driver version 14.0.499.20

Supported Devices and Features

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

32Gb FC Adapter:

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

64Gb FC Adapter:

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

---

Red Hat Enterprise Linux 9 Server Fibre Channel Driver Kit for HPE QLogic Host Bus Adapters
Version: 10.02.07.00-k1 **(Recommended)**

Filename: kmod-qlgc-qla2xxx-10.02.07.00_k1-3.rhel9u0.x86_64.compsig; kmod-qlgc-qla2xxx-10.02.07.00_k1-3.rhel9u0.x86_64.rpm

Important Note!

Release Notes:

HPE QLogic Adapters Release Notes

NOTE:

1. The rpm base-name for the QLogic driver has been changed to "qlgc". Upgrades from the earlier "hpqlgc" driver are supported.

Prerequisites

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

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

Enhancements

Updated to driver version 10.02.07.00-k1

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

---

SuSE Linux Enterprise Server 15 Service Pack 4 Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters
Version: 14.0.499.20 **(Recommended)**
Filename: elx-lpfc-kmp-default-14.0.499.20_k5.14.21_150400.22-1.sles15sp4.x86_64.compsig; elx-lpfc-kmp-default-14.0.499.20_k5.14.21_150400.22-1.sles15sp4.x86_64.rpm

Important Note!

Release Notes:
HPE Emulex Adapters Release Notes

Rewrite of same Driver version has to be performed using --reinstall option

Example: rpm –Uvh elx-lpfc-kmp-default-<version>.<OSupdate>.x86_64.rpm --reinstall

For more information please refer to the Knowledge Base
at: https://www.suse.com/support/kb/doc/?id=000019640

Prerequisites

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

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

Enhancements

Updated to driver version 14.0.499.20

Supported Devices and Features

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

32Gb FC Adapter:

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

64Gb FC Adapter:

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

---

SUSE Linux Enterprise Server 15 Service Pack 4 Fibre Channel Driver Kit for HPE QLogic Host Bus Adapters
Version: 10.02.07.00-k1 **(Recommended)**
Filename: qlgc-qla2xxx-kmp-default-10.02.07.00_k1_k5.14.21_150400.22-2.sles15sp4.x86_64.compsig; qlgc-qla2xxx-kmp-default-10.02.07.00_k1_k5.14.21_150400.22-2.sles15sp4.x86_64.rpm

Important Note!

NOTE:

1. Rewrite of same Driver version has to be performed using –force or --replacepkgs with --nodeps option

Example: rpm –Uvh kmod-qla2xxx-<version>.<OSupdate>.x86_64.rpm –force --nodeps

rpm –Uvh kmod-qla2xxx-<version>.<OSupdate>.x86_64.rpm –replacepkgs --nodeps

For more information please refer to the Knowledge Base at: https://www.suse.com/support/kb/doc/?id=000019640

Prerequisites

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

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

Enhancements

Updated to driver version 10.02.07.00-k1

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

---

Driver - System Management Top

iLO 6 Automatic Server Recovery Driver for Microsoft Windows Server 2019
Version: 4.7.1.0 **(Recommended)**
Filename: cp053255.compsig; cp053255.exe

Enhancements

Initial release.

---

iLO 6 Automatic Server Recovery Driver for Microsoft Windows Server 2022
Version: 4.7.1.0 **(Recommended)**
Filename: cp053257.compsig; cp053257.exe

Enhancements

Initial release.

---

iLO 6 Channel Interface Driver for Microsoft Windows Server 2019
Version: 4.7.1.0 **(Recommended)**
Filename: cp053254.compsig; cp053254.exe

Enhancements

Initial release.

---

iLO 6 Channel Interface Driver for Microsoft Windows Server 2022
Version: 4.7.1.0 **(Recommended)**
Filename: cp053256.compsig; cp053256.exe

Enhancements

Initial release.

Driver - Video Top

Matrox G200eH3 Video Controller Driver for Microsoft Windows 64-bit
Version: 9.15.1.248 (C) **(Recommended)**
Filename: cp053223.compsig; cp053223.exe

Enhancements

- Removed Gen10/Gen10 Plus platforms

- Removed support for Windows Server 2016

Firmware - Lights-Out Management Top

Online ROM Flash Component for Linux - HPE Integrated Lights-Out 6
Version: 1.10 **(Recommended)**
Filename: RPMS/x86_64/firmware-ilo6-1.10-1.1.x86_64.rpm; RPMS/x86_64/firmware-ilo6-1.10-1.1.x86_64_part1.compsig; RPMS/x86_64/firmware-ilo6-1.10-1.1.x86_64_part2.compsig

Important Note!

IPv6 network communications - Dedicated network connection only
Supported Networking Features
IPv6 Static Address Assignment
IPv6 SLAAC Address Assignment
IPv6 Static Route Assignment
IPv6 Static Default Gateway Entry
DHCPv6 Stateful Address Assignment
DHCPv6 Stateless DNS, Domain Name, and NTP Configuration
Integrated Remote Console
OA Single Sign-On
HP-SIM Single Sign-On
Web Server
SSH Server
SNTP Client
DDNS Client
RIBCL over IPv6
SNMP
AlertMail
Remote Syslog
WinDBG Support
HPONCFG/HPLOMIG over an IPv6 connection
Scriptable Virtual Media
CLI/RIBCL Key Import over IPv6
Authentication using LDAP and Kerberos over IPv6
iLO Federation
Networking Features not supported by IPv6 in this release
IPv6 Over Shared Network Port Connections
IPMI
NETBIOS-WINS
Enterprise Secure Key Manager (ESKM) Support
Embedded Remote Support (ERS)

Prerequisites

Hewlett Packard Enterprise recommends the following or greater versions of iLO utilities for best performance:

- RESTful Interface Tool (iLOREST) 4.0.0.0
- HPQLOCFG v6.0.0
- Lights-Out XML Scripting Sample bundle 6.00.0
- HPONCFG Windows 6.0.0
- HPONCFG Linux 6.0.0
- LOCFG v6.00.0 or later
- HPLOMIG 6.0.0

NOTE: Updated utilities and system libraries are required to support the iLO HighSecurity, FIPS, and CNSA security states. The HPONCFG Windows utility does not currently support the CNSA security state.

Enhancements

- Support for AMD EPYC™ 9004 Series Processors.
- Support for separate Power Domains for System and GPU based on Platform Support.

- Incorporation of Secure Element controller on the system board for iLO to enable Transfer of Ownership. iLO6 firmware initializes and configures Secure Element with needed checks for secure transfer of ownership to OpenBMC in future.
- IPMI changes for GPU temperature Threshold reporting.
- iLO Redfish conformance Support - Location Indicator Active for Drive Objects.
- iLO Redfish conformance Support - Power Subsystem and Thermal Schemas.
- iLO Redfish conformance Support - Date Time local offset.

Online ROM Flash Component for Windows x64 - HPE Integrated Lights-Out 6
Version: 1.10 **(Recommended)**
Filename: cp048807.exe; cp048807_part1.compsig; cp048807_part2.compsig

Important Note!

IPv6 network communications - Dedicated network connection only
Supported Networking Features
IPv6 Static Address Assignment
IPv6 SLAAC Address Assignment
IPv6 Static Route Assignment
IPv6 Static Default Gateway Entry
DHCPv6 Stateful Address Assignment
DHCPv6 Stateless DNS, Domain Name, and NTP Configuration
Integrated Remote Console
OA Single Sign-On
HP-SIM Single Sign-On
Web Server
SSH Server
SNTP Client
DDNS Client
RIBCL over IPv6
SNMP
AlertMail
Remote Syslog
WinDBG Support
HPONCFG/HPLOMIG over an IPv6 connection
Scriptable Virtual Media
CLI/RIBCL Key Import over IPv6
Authentication using LDAP and Kerberos over IPv6
iLO Federation
Networking Features not supported by IPv6 in this release
IPv6 Over Shared Network Port Connections
IPMI
NETBIOS-WINS
Enterprise Secure Key Manager (ESKM) Support
Embedded Remote Support (ERS)

Prerequisites

Hewlett Packard Enterprise recommends the following or greater versions of iLO utilities for best performance:

- RESTful Interface Tool (iLOREST) 4.0.0.0
- HPQLOCFG v6.0.0
- Lights-Out XML Scripting Sample bundle 6.00.0
- HPONCFG Windows 6.0.0
- HPONCFG Linux 6.0.0
- LOCFG v6.00.0 or later
- HPLOMIG 6.0.0

NOTE: Updated utilities and system libraries are required to support the iLO HighSecurity, FIPS, and CNSA security states. The HPONCFG Windows utility does not currently support the CNSA security state.

Enhancements

- Support for AMD EPYC™ 9004 Series Processors.

- Support for separate Power Domains for System and GPU based on Platform Support.
- Incorporation of Secure Element controller on the system board for iLO to enable Transfer of Ownership. iLO6 firmware initializes and configures Secure Element with needed checks for secure transfer of ownership to OpenBMC in future.
- IPMI changes for GPU temperature Threshold reporting.
- iLO Redfish conformance Support - Location Indicator Active for Drive Objects.
- iLO Redfish conformance Support - Power Subsystem and Thermal Schemas.
- iLO Redfish conformance Support - Date Time local offset.

Online ROM Flash Firmware Package - HPE Integrated Lights-Out 6
Version: 1.10 **(Recommended)**
Filename: ilo6_110.fwpkg

Important Note!

IPv6 network communications - Dedicated network connection only
Supported Networking Features
IPv6 Static Address Assignment
IPv6 SLAAC Address Assignment
IPv6 Static Route Assignment
IPv6 Static Default Gateway Entry
DHCPv6 Stateful Address Assignment
DHCPv6 Stateless DNS, Domain Name, and NTP Configuration
Integrated Remote Console
OA Single Sign-On
HP-SIM Single Sign-On
Web Server
SSH Server
SNTP Client
DDNS Client
RIBCL over IPv6
SNMP
AlertMail
Remote Syslog
WinDBG Support
HPONCFG/HPLOMIG over an IPv6 connection
Scriptable Virtual Media
CLI/RIBCL Key Import over IPv6
Authentication using LDAP and Kerberos over IPv6
iLO Federation
Networking Features not supported by IPv6 in this release
IPv6 Over Shared Network Port Connections
IPMI
NETBIOS-WINS
Enterprise Secure Key Manager (ESKM) Support
Embedded Remote Support (ERS)

Prerequisites

Hewlett Packard Enterprise recommends the following or greater versions of iLO utilities for best performance:

- RESTful Interface Tool (iLOREST) 4.0.0.0
- HPQLOCFG v6.0.0
- Lights-Out XML Scripting Sample bundle 6.00.0
- HPONCFG Windows 6.0.0
- HPONCFG Linux 6.0.0
- LOCFG v6.00.0 or later
- HPLOMIG 6.0.0

NOTE: Updated utilities and system libraries are required to support the iLO HighSecurity, FIPS, and CNSA security states. The HPONCFG Windows utility does not currently support the CNSA security state.

Enhancements

- Support for AMD EPYC™ 9004 Series Processors.
- Support for separate Power Domains for System and GPU based on Platform Support.
- Incorporation of Secure Element controller on the system board for iLO to enable Transfer of Ownership. iLO6 firmware initializes and configures Secure Element with needed checks for secure transfer of ownership to OpenBMC in future.
- IPMI changes for GPU temperature Threshold reporting.
- iLO Redfish conformance Support - Location Indicator Active for Drive Objects.
- iLO Redfish conformance Support - Power Subsystem and Thermal Schemas.
- iLO Redfish conformance Support - Date Time local offset.

Firmware - Network Top

Broadcom Firmware Package for BCM5741x adapters
Version: 222.1.68.0 **(Recommended)**
Filename: bcm222.1.68.0.pup.fwpkg

Important Note!

For Firmware installation, there is no OS and drivers dependency.
For Firmware compatibility during production, HPE recommends the drivers for use with the firmware Package product as below,

- Broadcom NetXtreme-E Driver for Microsoft Windows Server, version 222.0.126.0 or later
- HPE Broadcom NetXtreme-E Drivers for Linux, version 1.10.2-222.0.142.0 or later
- HPE Broadcom NetXtreme-E Drivers for VMware, version 222.0.118.0 or later

Fixes

This product addresses some minor adjustment with its internal UEFI code structure.

Supported Devices and Features

This product supports the following network adapters:

- HPE Ethernet 10Gb 2-port SFP+ BCM57412 Adapter
- HPE Ethernet 10Gb 2-port SFP+ BCM57412 OCP3 Adapter
- HPE Ethernet 10Gb 2-port BaseT BCM57416 Adapter
- HPE Ethernet 10Gb 2-port BaseT BCM57416 OCP3 Adapter
- HPE Ethernet 10/25Gb 2-port SFP28 BCM57414 Adapter
- HPE Ethernet 10/25Gb 2-port SFP28 BCM57414 OCP3 Adapter

Broadcom Firmware Package for BCM5750x adapters
Version: 222.1.68.0 (B) **(Recommended)**
Filename: bcm222.1.68.0_Thor.pup.fwpkg

Important Note!

For Firmware installation, there is no OS and drivers dependency.
For Firmware compatibility during production, HPE recommends the drivers for use with the firmware Package product as below,

- Broadcom NetXtreme-E Driver for Microsoft Windows Server, version 222.0.126.0 or later
- HPE Broadcom NetXtreme-E Drivers for Linux, version 1.10.2-222.0.142.0 or later
- HPE Broadcom NetXtreme-E Drivers for VMware, version 222.0.118.0 or later

Fixes

This product addresses some minor adjustment with its internal UEFI code structure.

Enhancements

This product is updated to maintain compatibility with CNSA (Commercial National Security Algorithm) compliance.

Supported Devices and Features

This product supports the following network adapters:

- Broadcom BCM57504 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE
- Broadcom BCM57504 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter for HPE

Broadcom NX1 Online Firmware Upgrade Utility for Linux x86_64
Version: 2.29.2 **(Recommended)**
Filename: firmware-nic-bcm-open-2.29.2-1.1.x86_64.compsig; firmware-nic-bcm-open-2.29.2-1.1.x86_64.rpm

Important Note!

HPE recommends *HPE Broadcom tg3 Ethernet Drivers*, versions 3.139e or later, for use with this firmware.

Prerequisites

This package requires the appropriate driver for your network adapter to be installed and all Ethernet ports brought up before firmware can be updated.

- Follow the command line to bring up ethernet device:

  # ifup ethX or ifconfig ethX up or wicked ifup ethX

If local system doesn't configure any network interface for the adapter that are necessary then to create the network config file to bring up interface.

- For example in sles15sp1, To create ifcfg-ethX files under /etc/sysconfig/network/

Fixes

This product addresses some minor adjustment with its internal UEFI code structure.

Supported Devices and Features

This product supports the following network adapters:

- Broadcom BCM5720 Ethernet 1Gb 2-port BASE-T LOM Adapter for HPE

Broadcom NX1 Online Firmware Upgrade Utility for VMware
Version: 1.30.2 **(Recommended)**
Filename: CP051467.compsig; CP051467.zip

Important Note!

This software package contains combo image v20.22.41 with the following firmware versions:

NIC	Boot Code Version	PXE Version	NCSI Version	UEFI Version	CCM Version
BCM 5719 1GbE 4p BASE-T Adptr	1.46	21.6.2	1.5.35	21.6.36	222.0.137.0
BCM 5719 1GbE 2p BASE-T OCP3 Adptr	1.46	21.6.2	1.5.35	21.6.36	222.0.137.0
BCM 5720 1GbE 2p BASE-T LOM Adptr	1.42	21.6.2	1.5.35	21.6.36	222.0.137.0

Prerequisites

This product requires the appropriate driver for your device and operating system be installed before firmware is updated.

Fixes

This product addresses some minor adjustment with its internal UEFI code structure.

Supported Devices and Features

This product supports the following network adapters:

- Broadcom BCM5720 Ethernet 1Gb 2-port BASE-T LOM Adapter for HPE
- Broadcom BCM5719 Ethernet 1Gb 4-port Base-T Adapter for HPE
- Broadcom BCM5719 Ethernet 1Gb 4-port Base-T OCP3 Adapter for HPE

Broadcom NX1 Online Firmware Upgrade Utility for Windows Server x64 Editions
Version: 5.3.0.0 **(Recommended)**
Filename: cp051468.compsig; cp051468.exe

Important Note!

HPE recommends *Broadcom NX1 1Gb Driver for Windows Server x64 Editions*, version 221.0.4.0 or later, for use with this firmware.

This software package contains combo image v20.22.41 with the following firmware versions:

NIC	Boot Code Version	PXE Version	NCSI Version	UEFI Version	CCM Version
BCM 5719 1GbE 4p BASE-T Adptr	1.46	21.6.2	1.5.35	21.6.36	222.0.137.0
BCM 5719 1GbE 2p BASE-T OCP3 Adptr	1.46	21.6.2	1.5.35	21.6.36	222.0.137.0
BCM 5720 1GbE 2p BASE-T LOM Adptr	1.42	21.6.2	1.5.35	21.6.36	222.0.137.0

Prerequisites

This product requires the appropriate driver for your device and operating system be installed before firmware is updated.

Fixes

This product addresses some minor adjustment with its internal UEFI code structure.

Supported Devices and Features

This product supports the following network adapters:

- Broadcom BCM5720 Ethernet 1Gb 2-port BASE-T LOM Adapter for HPE
- Broadcom BCM5719 Ethernet 1Gb 4-port Base-T Adapter for HPE
- Broadcom BCM5719 Ethernet 1Gb 4-port Base-T OCP3 Adapter for HPE

Intel Firmware Package For E810-2CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter
Version: 4.00 **(Recommended)**
Filename: HPE_E810_2CQDA2_O_SEC_4p01_PLDMoMCTP_800135E6.fwpkg

Important Note!

For Firmware installation, there is no OS and drivers dependency.
For Firmware compatibility during production, HPE recommends the drivers for use with the firmware Package product as below,

- Intel icea Driver for Microsoft Windows Server, version 1.12.144.0 or later
- Intel ice Drivers for Linux, version 1.9.11-1 or later
- Intel icen Driver for VMware, version 2022.09.01 or later

Enhancements

This product now supports HPE ProLiant Gen11 servers

Supported Devices and Features

This product supports the following network adapters:

- Intel E810-2CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE

Intel Firmware Package For E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter
Version: 4.00 **(Recommended)**
Filename: HPE_E810_CQDA2_4p01_PLDMoMCTP_800135E8.fwpkg

Important Note!

For Firmware installation, there is no OS and drivers dependency.
For Firmware compatibility during production, HPE recommends the drivers for use with the firmware Package product as below,

- Intel icea Driver for Microsoft Windows Server, version 1.12.144.0 or later
- Intel ice Drivers for Linux, version 1.9.11-1 or later
- Intel icen Driver for VMware, version 2022.09.01 or later

Enhancements

This product now supports HPE ProLiant Gen11 servers

Supported Devices and Features

This product supports the following network adapters:

- Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE

Intel Firmware Package For E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter
Version: 4.00 **(Recommended)**
Filename: HPE_E810_CQDA2_OCP_4p01_NCSIwPLDMoMCTP_800135E9.fwpkg

Important Note!

For Firmware installation, there is no OS and drivers dependency.
For Firmware compatibility during production, HPE recommends the drivers for use with the firmware Package product as below,

- Intel icea Driver for Microsoft Windows Server, version 1.12.144.0 or later
- Intel ice Drivers for Linux, version 1.9.11-1 or later
- Intel icen Driver for VMware, version 2022.09.01 or later

Fixes

This product addresses an issue where power on failure is seen when setting up this adpate as shared network port

Enhancements

This product now supports HPE ProLiant Gen11 servers

Supported Devices and Features

This product supports the following network adapters:

- Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter for HPE

Intel Firmware Package For E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 Adapter
Version: 4.00 **(Recommended)**
Filename: HPE_E810_XXVDA2_SD_4p01_PLDMoMCTP_800135EC.fwpkg

Important Note!

For Firmware installation, there is no OS and drivers dependency.
For Firmware compatibility during production, HPE recommends the drivers for use with the firmware Package product as below,

- Intel icea Driver for Microsoft Windows Server, version 1.12.144.0 or later
- Intel ice Drivers for Linux, version 1.9.11-1 or later
- Intel icen Driver for VMware, version 2022.09.01 or later

Enhancements

This product now supports HPE ProLiant Gen11 servers

Supported Devices and Features

This product supports the following network adapters:

- Intel E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 Adapter for HPE

Intel Firmware Package For E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter
Version: 4.00 **(Recommended)**
Filename: HPE_E810_XXVDA2_SD_OCP_4p01_NCSIwPLDMoMCTP_800135E5.fwpkg

Important Note!

For Firmware installation, there is no OS and drivers dependency.
For Firmware compatibility during production, HPE recommends the drivers for use with the firmware Package product as below,

- Intel icea Driver for Microsoft Windows Server, version 1.12.144.0 or later
- Intel ice Drivers for Linux, version 1.9.11-1 or later
- Intel icen Driver for VMware, version 2022.09.01 or later

Enhancements

This product now supports HPE ProLiant Gen11 servers

Supported Devices and Features

This product supports the following network adapters:

- Intel E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE

Intel Firmware Package For E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter
Version: 4.00 **(Recommended)**
Filename: HPE_E810_XXVDA4_FH_4p01_PLDMoMCTP_800135E3.fwpkg

Important Note!

For Firmware installation, there is no OS and drivers dependency.
For Firmware compatibility during production, HPE recommends the drivers for use with the firmware Package product as below,

- Intel icea Driver for Microsoft Windows Server, version 1.12.144.0 or later
- Intel ice Drivers for Linux, version 1.9.11-1 or later
- Intel icen Driver for VMware, version 2022.09.01 or later

Enhancements

This product now supports HPE ProLiant Gen11 servers

Supported Devices and Features

This product supports the following network adapters:

- Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE

Intel Firmware Package For E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 MCLK Adapter
Version: 4.00 **(Recommended)**
Filename: HPE_E810_XXV4T_O_SEC_4p01_PLDMoMCTP_800135E7.fwpkg

Important Note!

For Firmware installation, there is no OS and drivers dependency.
For Firmware compatibility during production, HPE recommends the drivers for use with the firmware Package product as below,

- Intel ice Drivers for Linux, version 1.9.11-1 or later

Enhancements

Initial version

Supported Devices and Features

This product supports the following network adapters:

- Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 MCLK Adapter for HPE

Intel Firmware Package For E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter
Version: 4.00 **(Recommended)**
Filename: HPE_E810_XXV4_OCP_4p01_NCSIwPLDMoMCTP_800135EB.fwpkg

Important Note!

For Firmware installation, there is no OS and drivers dependency.
For Firmware compatibility during production, HPE recommends the drivers for use with the firmware Package product as below,

- Intel icea Driver for Microsoft Windows Server, version 1.12.144.0 or later
- Intel ice Drivers for Linux, version 1.9.11-1 or later
- Intel icen Driver for VMware, version 2022.09.01 or later

Enhancements

This product now supports HPE ProLiant Gen11 servers

Supported Devices and Features

This product supports the following network adapters:

- Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter for HPE

Intel Online Firmware Upgrade Utility for Linux x86_64
Version: 1.25.4 **(Recommended)**
Filename: firmware-nic-is-intel-1.25.4-1.1.x86_64.compsig; firmware-nic-is-intel-1.25.4-1.1.x86_64.rpm

Prerequisites

This product requires the appropriate driver for your device and operating system be installed before firmware is updated.

Fixes

This product addresses an issue where the adaters isn't recongized with HPE Ethernet 10Gb 2-port SFP+ OCP3 X710-DA2 Adapter and HPE Ethernet 10Gb 2-port SFP+ X710-DA2 Adapter

Enhancements

This product now supports HPE ProLiant Gen11 servers

Supported Devices and Features

This package supports the following network adapters:

- Intel(R) I350 Gigabit Network Connection (2-port)
- Intel(R) I350 Gigabit Network Connection (4-port)
- HPE Ethernet 1Gb 4-port BaseT I350-T4 Adapter
- HPE Ethernet 1Gb 4-port BaseT I350-T4 OCP3 Adapter
- HPE Ethernet 10Gb 2-port SFP+ X710-DA2 Adapter
- HPE Ethernet 10Gb 2-port SFP+ X710-DA2 OCP3 Adapter

Intel Online Firmware Upgrade Utility for VMware
Version: 3.18.4 **(Recommended)**
Filename: CP051008.compsig; CP051008.zip

Important Note!

This software package contains the following firmware versions for the below listed supported network adapters:

NIC	EEPROM/NVM Version	OROM Version	NVM Version
HPE Ethernet 10Gb 2-port SFP+ OCP3 X710-DA2 Adapter	8000CBAA	1.3256.0	8.70
HPE Ethernet 10Gb 2-port SFP+ X710-DA2 Adapter	8000CBAB	1.3256.0	8.70
Intel I350-T4 Ethernet 1Gb 4-port BASE-T Adapter	80001099	1.3256.0	N/A
Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter	80001199	1.3256.0	N/A
Intel(R) I350 Gigabit Network Connection (2-port)	8000119C	1.3256.0	N/A
Intel(R) I350 Gigabit Network Connection (4-port)	8000119D	1.3256.0	N/A

The combo image v1.3256.0 includes: Boot Agent: 1GbE - v1.5.89, Boot Agent I40E - v1.1.42 & UEFI Drivers: 1GbE - v9.8.09, 40 gigabit driver - v4.9.21.

Prerequisites

This product requires the appropriate driver for your device and operating system be installed before firmware is updated.

Fixes

This product addresses an issue where the adaters isn't recongized with HPE Ethernet 10Gb 2-port SFP+ OCP3 X710-DA2 Adapter and HPE Ethernet 10Gb 2-port SFP+ X710-DA2 Adapter

Enhancements

This product now supports HPE ProLiant Gen11 servers

Supported Devices and Features

This package supports the following network adapters:

- Intel(R) I350 Gigabit Network Connection (2-port)
- Intel(R) I350 Gigabit Network Connection (4-port)
- HPE Ethernet 1Gb 4-port BaseT I350-T4 Adapter
- HPE Ethernet 1Gb 4-port BaseT I350-T4 OCP3 Adapter
- HPE Ethernet 10Gb 2-port SFP+ X710-DA2 OCP3 Adapter
- HPE Ethernet 10Gb 2-port SFP+ X710-DA2 Adapter

Intel Online Firmware Upgrade Utility for Windows Server x64 Editions
Version: 5.3.0.0 **(Recommended)**
Filename: cp051010.compsig; cp051010.exe

Important Note!

This software package contains the following firmware versions for the below listed supported network adapters:

NIC	EEPROM/NVM Version	OROM Version	NVM Version
HPE Ethernet 10Gb 2-port SFP+ OCP3 X710-DA2 Adapter	8000CBAA	1.3256.0	8.70
HPE Ethernet 10Gb 2-port SFP+ X710-DA2 Adapter	8000CBAB	1.3256.0	8.70
Intel I350-T4 Ethernet 1Gb 4-port BASE-T Adapter	80001099	1.3256.0	N/A
Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter	80001199	1.3256.0	N/A
Intel(R) I350 Gigabit Network Connection (2-port)	8000119C	1.3256.0	N/A
Intel(R) I350 Gigabit Network Connection (4-port)	8000119D	1.3256.0	N/A

The combo image v1.3256.0 includes: Boot Agent: 1GbE - v1.5.89, Boot Agent I40E - v1.1.42 & UEFI Drivers: 1GbE - v9.8.09, 40 gigabit driver - v4.9.21.

Prerequisites

This product requires the appropriate driver for your device and operating system be installed before firmware is updated.

Fixes

This product addresses an issue where the adaters isn't recongized with HPE Ethernet 10Gb 2-port SFP+ OCP3 X710-DA2 Adapter and HPE Ethernet 10Gb 2-port SFP+ X710-DA2 Adapter

Enhancements

This product now supports HPE ProLiant Gen11 servers

Supported Devices and Features

This package supports the following network adapters:

- Intel(R) I350 Gigabit Network Connection (2-port)
- Intel(R) I350 Gigabit Network Connection (4-port)
- HPE Ethernet 1Gb 4-port BaseT I350-T4 Adapter
- HPE Ethernet 1Gb 4-port BaseT I350-T4 OCP3 Adapter
- HPE Ethernet 10Gb 2-port SFP+ X710-DA2 OCP3 Adapter

- HPE Ethernet 10Gb 2-port SFP+ X710-DA2 Adapter

Mellanox Firmware Package (FWPKG) - Mellanox MCX631102AS-ADAT Ethernet 10/25Gb 2-port SFP28 Adapter for HPE
Version: 26.34.1002 **(Recommended)**
Filename: 26_34_1002-MCX631102AS-ADA_Ax.pldm.fwpkg

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://docs.nvidia.com/networking/display/ConnectX6LxFirmwarev26331048/Known+Issues

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 26.34.1002:

- An issue where set_flow_table_entry failed when aso_flow_meter action was used.
- A race condition occured between the duplicate read and QP commands (2RST, 2ERR and Destroy) in the signature that caused the command to hang.
- An issue where vPort counters had wrong values.
- An issue where firmware update failed or timed out when multiple adapters of the same type were present on a system. This was fixed by adding "Command Unsupported" response code in cases when running the MCTP control command "Get Vendor Defined Messages Supported", and there were no supported VDMs.

Enhancements

New Features and Changes in Version 26.34.1002:

- Added LLDPEnable, LLDPTransmit and LLDPReceive properties to the RDE Port schema implementation.
- Added support for PPCC register with bulk operations, MAD for algorithm configuration and tunable parameters.
- Added support for programmable counters for PCC via PPCC register and MAD.
- Added Programmable Congestion Control (PCC) support. Note: User programmability is currently not supported.
- Added 50 Usec delay during PML1 exit to avoid any PCIe replay timer timeout.
- Enabled Multi-Host RX Rate-limiter configuration via the QEEC mlxreg and the max_shaper_rate field.

Supported Devices and Features

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

Mellanox Firmware Package (FWPKG) - Mellanox MCX631432AS-ADAI Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE
Version: 26.34.1002 **(Recommended)**
Filename: 26_34_1002-MCX631432AS-ADA_Ax.pldm.fwpkg

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://docs.nvidia.com/networking/display/ConnectX6LxFirmwarev26331048/Known+Issues

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 26.34.1002:

- An issue where set_flow_table_entry failed when aso_flow_meter action was used.
- A race condition occured between the duplicate read and QP commands (2RST, 2ERR and Destroy) in the signature that caused the command to hang.
- An issue where vPort counters had wrong values.
- An issue where firmware update failed or timed out when multiple adapters of the same type were present on a system. This was fixed by adding "Command Unsupported" response code in cases when running the MCTP control command "Get Vendor Defined Messages Supported", and there were no supported VDMs.

Enhancements

New Features and Changes in Version 26.34.1002:

- Added LLDPEnable, LLDPTransmit and LLDPReceive properties to the RDE Port schema implementation.
- Added support for PPCC register with bulk operations, MAD for algorithm configuration and tunable parameters.
- Added support for programmable counters for PCC via PPCC register and MAD.
- Added Programmable Congestion Control (PCC) support. Note: User programmability is currently not supported.
- Added 50 Usec delay during PML1 exit to avoid any PCIe replay timer timeout.
- Enabled Multi-Host RX Rate-limiter configuration via the QEEC mlxreg and the max_shaper_rate field.

Supported Devices and Features

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

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: 16.34.1002 **(Recommended)**

Filename: 16_34_1002-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/ConnectX5Firmwarev16341002/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 16.34.1002:

- "set_flow_table_entry" failed when aso_flow_meter action was used.
- A race condition occured between the duplicate read and QP commands (2RST, 2ERR and Destroy) in the signature that caused the command to hang.
- When all traffic applications sharing the same combination of <function, priority, side> were rate limited (for example by congestion control), this limit was enforced on other applications with different combinations of <function, priority, side> under the same VL. For example, requestor flows (RDMA-write) were limited to rate X, however, this rate was also enforced on a QP sending RDMAread responses. This firmware version prevents rate limit enforcement on traffic applications which should not be limited.
- Firmware update failed or timed out when multiple adapters of the same type were present on a system. This was fixed by adding "Command Unsupported" response code in cases when running the MCTP control command "Get Vendor Defined Messages Supported", and there were no supported VDMs.

Enhancements

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

New features and changes included in version 16.34.1002:

- Added LLDPEnable, LLDPTransmit and LLDPReceive properties to the RDE Port schema implementation.

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)	16.34.1002	MT_0000000591

Mellanox Firmware Package (FWPKG) for HPE InfiniBand HDR/Ethernet 200Gb 1-port QSFP56 PCIe4 x16 MCX653105A-HDAT Adapter : HPE part numbers P23664-B21 and P23664-H21
Version: 20.34.1002 **(Recommended)**
Filename: 20_34_1002-MCX653105A-HDA_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/ConnectX6Firmwarev20341002/Known+Issues

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 20.34.1002:

- "set_flow_table_entry" failed when aso_flow_meter action was used.
- A race condition occured between the duplicate read and QP commands (2RST, 2ERR and Destroy) in the signature that caused the command to get into an unresponsive state.
- Firmware update failed or timed out when multiple adapters of the same type were present on a system. This was fixed by adding "Command Unsupported" response code in cases when running the MCTP control command "Get Vendor Defined Messages Supported", and there were no supported VDMs.

Enhancements

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

New features and changes included in version 20.34.1002:

- Added LLDPEnable, LLDPTransmit and LLDPReceive properties to the RDE Port schema implementation.
- Added Queue Counters Allocation capability which allows privileged users to allocate queue counters. With this new feature, the get_max_qp_cnt_cur_cap() returns a valid value when the UID is with UCTX_CAP_INTERNAL_DEVICE_RESOURCES, otherwise it returns 0.
- Added support for InfiniBand MAD packets capturing in RX RDMA Steering table.
- Added 50 Usec delay during PML1 exit to avoid any PCIe replay timer timeout.

Supported Devices and Features

This software package contains the following firmware versions:

Mellanox InfiniBand Adapter	Firmware Version	PSID
HPE InfiniBand HDR/Ethernet 200Gb 1-port QSFP56 PCIe4 x16 MCX653105A-HDAT Adapter (P23664-B21 and P23664-H21)	20.34.1002	MT_0000000451

Mellanox Firmware Package (FWPKG) for HPE InfiniBand HDR/Ethernet 200Gb 1-port QSFP56 PCIe4 x16 OCP3 MCX653435A-HDAI Adapter : HPE part numbers P31323-B21 and P31323-H21
Version: 20.34.1002 **(Recommended)**
Filename: 20_34_1002-MCX653435A-HDA_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/ConnectX6Firmwarev20341002/Known+Issues

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 20.34.1002:

- "set_flow_table_entry" failed when aso_flow_meter action was used.
- A race condition occured between the duplicate read and QP commands (2RST, 2ERR and Destroy) in the signature that caused the command to get into an unresponsive state.
- Firmware update failed or timed out when multiple adapters of the same type were present on a system. This was fixed by adding "Command Unsupported" response code in cases when running the MCTP control command "Get Vendor Defined Messages Supported", and there were no supported VDMs.

Enhancements

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

New features and changes included in version 20.34.1002:

- Added LLDPEnable, LLDPTransmit and LLDPReceive properties to the RDE Port schema implementation.
- Added Queue Counters Allocation capability which allows privileged users to allocate queue counters. With this new feature, the get_max_qp_cnt_cur_cap() returns a valid value when the UID is with UCTX_CAP_INTERNAL_DEVICE_RESOURCES, otherwise it returns 0.
- Added support for InfiniBand MAD packets capturing in RX RDMA Steering table.
- Added 50 Usec delay during PML1 exit to avoid any PCIe replay timer timeout.

Supported Devices and Features

This software package contains the following firmware versions:

Mellanox InfiniBand Adapter	Firmware Version	PSID
HPE InfiniBand HDR/Ethernet 200Gb 1-port QSFP56 PCIe4 x16 OCP3 MCX653435A-HDAI Adapter (P31323-B21 and P31323-H21)	20.34.1002	MT_0000000592

Mellanox Firmware Package (FWPKG) for HPE InfiniBand HDR/Ethernet 200Gb 2-port QSFP56 PCIe4 x16 MCX653106A-HDAT Adapter : HPE part numbers P31324-B21 and P31324-H21
Version: 20.34.1002 **(Recommended)**
Filename: 20_34_1002-MCX653106A-HDA_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.

ConnectX-6 VPI supports having one port as InfiniBand and the other port as Ethernet according to the following matrix of combinations.

Port #2 - InfiniBand				
Port #1 – Ethernet	**HDR/HDR100**	**EDR**	**FDR**	**QDR**
200GbE/50GbE	supported	not supported	not supported	supported
100GbE/25GbE	supported	not supported	not supported	supported
40GbE/10GbE	supported	not supported	not supported	supported
1GbE	supported	not supported	not supported	supported

Port #2 - Ethernet				
Port #1 - InfiniBand	**200GbE/50GbE**	**100GbE/25GbE**	**40GbE/10GbE**	**1GbE**
HDR / HDR100	supported	supported	not supported	supported
EDR	supported	supported	not supported	supported
FDR	not supported	not supported	not supported	not supported
QDR/SDR	supported	supported	not supported	supported

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/ConnectX6Firmwarev20341002/Known+Issues

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 20.34.1002:

- "set_flow_table_entry" failed when aso_flow_meter action was used.
- A race condition occured between the duplicate read and QP commands (2RST, 2ERR and Destroy) in the signature that caused the command to get into an unresponsive state.
- Firmware update failed or timed out when multiple adapters of the same type were present on a system. This was fixed by adding "Command Unsupported" response code in cases when running the MCTP control command "Get Vendor Defined Messages Supported", and there were no supported VDMs.

Enhancements

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

New features and changes included in version 20.34.1002:

- Added LLDPEnable, LLDPTransmit and LLDPReceive properties to the RDE Port schema implementation.
- Added Queue Counters Allocation capability which allows privileged users to allocate queue counters. With this new feature, the get_max_qp_cnt_cur_cap() returns a valid value when the UID is with UCTX_CAP_INTERNAL_DEVICE_RESOURCES, otherwise it returns 0.
- Added support for InfiniBand MAD packets capturing in RX RDMA Steering table.
- Added 50 Usec delay during PML1 exit to avoid any PCIe replay timer timeout.

Supported Devices and Features

This software package contains the following firmware versions:

Mellanox InfiniBand Adapter	Firmware Version	PSID
HPE InfiniBand HDR/Ethernet 200Gb 2-port QSFP56 PCIe4 x16 MCX653106A-HDAT Adapter(P31324-B21 and P31324-H21)	20.34.1002	MT_0000000594

Mellanox Firmware Package (FWPKG) for HPE InfiniBand HDR/Ethernet 200Gb 2-port QSFP56 PCIe4 x16 OCP3 MCX653436A-HDAI Adapter : HPE part numbers P31348-B21 and P31348-H21
Version: 20.34.1002 **(Recommended)**
Filename: 20_34_1002-MCX653436A-HDA_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.

ConnectX-6 VPI supports having one port as InfiniBand and the other port as Ethernet according to the following matrix of combinations.

Port #2 - InfiniBand				
Port #1 – Ethernet	**HDR/HDR100**	**EDR**	**FDR**	**QDR**
200GbE/50GbE	supported	not supported	not supported	supported
100GbE/25GbE	supported	not supported	not supported	supported
40GbE/10GbE	supported	not supported	not supported	supported
1GbE	supported	not supported	not supported	supported

Port #2 - Ethernet				
Port #1 - InfiniBand	**200GbE/50GbE**	**100GbE/25GbE**	**40GbE/10GbE**	**1GbE**
HDR / HDR100	supported	supported	not supported	supported
EDR	supported	supported	not supported	supported
FDR	not supported	not supported	not supported	not supported
QDR/SDR	supported	supported	not supported	supported

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/ConnectX6Firmwarev20341002/Known+Issues

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 20.34.1002:

- "set_flow_table_entry" failed when aso_flow_meter action was used.

- A race condition occured between the duplicate read and QP commands (2RST, 2ERR and Destroy) in the signature that caused the command to get into an unresponsive state.
- Firmware update failed or timed out when multiple adapters of the same type were present on a system. This was fixed by adding "Command Unsupported" response code in cases when running the MCTP control command "Get Vendor Defined Messages Supported", and there were no supported VDMs.

Enhancements

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

New features and changes included in version 20.34.1002:

- Added LLDPEnable, LLDPTransmit and LLDPReceive properties to the RDE Port schema implementation.
- Added Queue Counters Allocation capability which allows privileged users to allocate queue counters. With this new feature, the get_max_qp_cnt_cur_cap() returns a valid value when the UID is with UCTX_CAP_INTERNAL_DEVICE_RESOURCES, otherwise it returns 0.
- Added support for InfiniBand MAD packets capturing in RX RDMA Steering table.
- Added 50 Usec delay during PML1 exit to avoid any PCIe replay timer timeout.

Supported Devices and Features

This software package contains the following firmware versions:

Mellanox InfiniBand Adapter	Firmware Version	PSID
HPE InfiniBand HDR/Ethernet 200Gb 2-port QSFP56 PCIe4 x16 OCP3 MCX653436A-HDAI Adapter (P31348-B21 and P31348-H21)	20.34.1002	MT_0000000593

Mellanox Firmware Package (FWPKG) for HPE InfiniBand HDR100/Ethernet 100Gb 1-port QSFP56 PCIe4 x16 MCX653105A-ECAT Adapter : HPE part numbers P23665-B21 and P23665-H21
Version: 20.34.1002 **(Recommended)**
Filename: 20_34_1002-MCX653105A-ECA_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/ConnectX6Firmwarev20341002/Known+Issues

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 20.34.1002:

- "set_flow_table_entry" failed when aso_flow_meter action was used.
- A race condition occured between the duplicate read and QP commands (2RST, 2ERR and Destroy) in the signature that caused the command to get into an unresponsive state.
- Firmware update failed or timed out when multiple adapters of the same type were present on a system. This was fixed by adding "Command Unsupported" response code in cases when running the MCTP control command "Get Vendor Defined Messages Supported", and there were no supported VDMs.

Enhancements

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

New features and changes included in version 20.34.1002:

- Added LLDPEnable, LLDPTransmit and LLDPReceive properties to the RDE Port schema implementation.
- Added Queue Counters Allocation capability which allows privileged users to allocate queue counters. With this new feature, the get_max_qp_cnt_cur_cap() returns a valid value when the UID is with UCTX_CAP_INTERNAL_DEVICE_RESOURCES, otherwise it returns 0.
- Added support for InfiniBand MAD packets capturing in RX RDMA Steering table.
- Added 50 Usec delay during PML1 exit to avoid any PCIe replay timer timeout.

Supported Devices and Features

This software package contains the following firmware versions:

Mellanox InifiniBand Adapter	Firmware Version	PSID
HPE InfiniBand HDR100/Ethernet 100Gb 1-port QSFP56 PCIe4 x16 MCX653105A-ECAT Adapter (P23665-B21 and P23665-H21)	20.34.1002	MT_0000000452

Mellanox Firmware Package (FWPKG) for HPE InfiniBand HDR100/Ethernet 100Gb 2-port QSFP56 PCIe4 x16 MCX653106A-ECAT Adapter : HPE part numbers P23666-B21 and P23666-H21
Version: 20.34.1002 **(Recommended)**
Filename: 20_34_1002-MCX653106A-ECA_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.

ConnectX-6 VPI supports having one port as InfiniBand and the other port as Ethernet according to the following matrix of combinations.

Port #2 - InfiniBand				
Port #1 – Ethernet	**HDR/HDR100**	**EDR**	**FDR**	**QDR**
50GbE	supported	not supported	not supported	supported
100GbE/25GbE	supported	not supported	not supported	supported
40GbE/10GbE	supported	not supported	not supported	supported
1GbE	supported	not supported	not supported	supported

Port #2 - Ethernet				
Port #1 - InfiniBand	**50GbE**	**100GbE/25GbE**	**40GbE/10GbE**	**1GbE**
HDR / HDR100	supported	supported	not supported	supported
EDR	supported	supported	not supported	supported
FDR	not supported	not supported	not supported	not supported
QDR/SDR	supported	supported	not supported	supported

A list of known issues with this release is available at: https://docs.nvidia.com/networking/display/ConnectX6Firmwarev20341002/Known+Issues

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 20.34.1002:

- "set_flow_table_entry" failed when aso_flow_meter action was used.
- A race condition occured between the duplicate read and QP commands (2RST, 2ERR and Destroy) in the signature that caused the command to get into an unresponsive state.
- Firmware update failed or timed out when multiple adapters of the same type were present on a system. This was fixed by adding "Command Unsupported" response code in cases when running the MCTP control command "Get Vendor Defined Messages Supported", and there were no supported VDMs.

Enhancements

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

New features and changes included in version 20.34.1002:

- Added LLDPEnable, LLDPTransmit and LLDPReceive properties to the RDE Port schema implementation.
- Added Queue Counters Allocation capability which allows privileged users to allocate queue counters. With this new feature, the get_max_qp_cnt_cur_cap() returns a valid value when the UID is with UCTX_CAP_INTERNAL_DEVICE_RESOURCES, otherwise it returns 0.
- Added support for InfiniBand MAD packets capturing in RX RDMA Steering table.
- Added 50 Usec delay during PML1 exit to avoid any PCIe replay timer timeout.

Supported Devices and Features

This software package contains the following firmware versions:

Mellanox InfiniBand Adapter	Firmware Version	PSID
HPE InfiniBand HDR100/Ethernet 100Gb 2-port QSFP56 PCIe4 x16 MCX653106A-ECAT Adapter (P23666-B21 and P23666-H21)	20.34.1002	MT_0000000453

Mellanox Firmware Package (FWPKG) for Mellanox MCX623105AS-VDAT Ethernet 200Gb 1-port QSFP56 Adapter for HPE
Version: 22.34.1002 **(Recommended)**
Filename: 22_34_1002-MCX623105AS-VDA_Ax.pldm.fwpkg

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://docs.nvidia.com/networking/display/ConnectX6DxFirmwarev22341002/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 22.34.1002:

- An issue that caused the destroy_match_definer object command to fail after dumping it using resource_dump.
- An issue where set_flow_table_entry failed when aso_flow_meter action was used.
- An issue where firmware update failed or timed out when multiple adapters of the same type were present on a system. This was fixed by adding "Command Unsupported" response code in cases when running the MCTP control command "Get Vendor Defined Messages Supported", and there were no supported VDMs.

Enhancements

New features and changes included in version 22.34.1002:

- Added LLDPEnable, LLDPTransmit and LLDPReceive properties to the RDE Port schema implementation.
- Added a 22 nanosecond of propagation delay to the cable delay of the PPS signal when using PPS out.
- Added support for PPCC register with bulk operations, MAD for algorithm configuration and tunable parameters.
- Added support for programmable counters for PCC via PPCC register and MAD.
- Added support for RX multi-host rate limit using an enabler script.
- A new capability that allows privileged users to allocate queue counters. In this new feature the get_max_qp_cnt_cur_cap() returns a valid value when the UID is with UCTX_CAP_INTERNAL_DEVICE_RESOURCES, otherwise it returns 0.
- Enabled Multi-Host RX Rate-limiter configuration via the QEEC mlxreg and the max_shaper_rate field.
- Added a new NVconfig parameter “MULTI_PCI_RESOURCE_SHARE” to support modes that allow choosing the utilization of the card's resources on each host in Socket-Direct / Multi host setup.
- Added 50 Usec delay during PML1 exit to avoid any PCIe replay timer timeout.

Supported Devices and Features

HPE Part Number	Mellanox Ethernet Only Adapters	PSID
P10180-B21	Mellanox MCX623105AS-VDAT Ethernet 200Gb 1-port QSFP56 Adapter for HPE	MT_0000000435

Filename: 22_34_1002-MCX623106AS-CDA_Ax.pldm.fwpkg

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://docs.nvidia.com/networking/display/ConnectX6DxFirmwarev22341002/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 22.34.1002:

- An issue that caused the destroy_match_definer object command to fail after dumping it using resource_dump.
- An issue where set_flow_table_entry failed when aso_flow_meter action was used.
- An issue where firmware update failed or timed out when multiple adapters of the same type were present on a system. This was fixed by adding "Command Unsupported" response code in cases when running the MCTP control command "Get Vendor Defined Messages Supported", and there were no supported VDMs.

Enhancements

New features and changes included in version 22.34.1002:

- Added LLDPEnable, LLDPTransmit and LLDPReceive properties to the RDE Port schema implementation.
- Added a 22 nanosecond of propagation delay to the cable delay of the PPS signal when using PPS out.
- Added support for PPCC register with bulk operations, MAD for algorithm configuration and tunable parameters.
- Added support for programmable counters for PCC via PPCC register and MAD.
- Added support for RX multi-host rate limit using an enabler script.
- A new capability that allows privileged users to allocate queue counters. In this new feature the get_max_qp_cnt_cur_cap() returns a valid value when the UID is with UCTX_CAP_INTERNAL_DEVICE_RESOURCES, otherwise it returns 0.
- Enabled Multi-Host RX Rate-limiter configuration via the QEEC mlxreg and the max_shaper_rate field.
- Added a new NVconfig parameter “MULTI_PCI_RESOURCE_SHARE” to support modes that allow choosing the utilization of the card's resources on each host in Socket-Direct / Multi host setup.
- Added 50 Usec delay during PML1 exit to avoid any PCIe replay timer timeout.

Supported Devices and Features

HPE Part Number	Mellanox Ethernet Only Adapters	PSID

P25960-B21	Mellanox MCX623106AS-CDAT Ethernet 100Gb 2-port QSFP56 Adapter for HPE	MT_0000000437

Online Firmware Upgrade Utility (Linux x86_64) for HPE OPA adapters
Version: 1.12.0 (A) **(Recommended)**
Filename: firmware-nic-cornelis-opa-hfi-1.12.0-2.1.x86_64.compsig; firmware-nic-cornelis-opa-hfi-1.12.0-2.1.x86_64.rpm

Prerequisites

The smart component requires Cornelis Networks OPXS or OPX Basic software v10.11.1.3.1 to be installed as a prerequisite.

Fixes

Fixes included in version 1.12.0:

- Fixed race condition between BIOS checking link status and LNI completing which resulted in PXE boot failures.
- Changed the default behavior of the hfi1_eprom tool to convert the eprom format to version 2, eliminating the need to supply the -N command line argument.
- Addressed an issue where updating the HfiPcieGen3Loader*.rom file could result in the erasure of HfiPcieGen3Loader*.efi and HFI_TYPE1*.dat files.

Enhancements

No changes and new features in version 1.12.0

Supported Devices and Features

HP Part Number	OPA HFI Adapter Type	SSID
829334-B21	HPE 100Gb 1-Port OP101 QSFP28 x8 OPA Adapter	E7
829335-B21	HPE 100Gb 1-Port OP101 QSFP28 x16 OPA Adapter	E8
851226-B21	HPE Apollo 100Gb 1-port Intel Omni-Path Architecture 860z Mezzanine FIO Adapter	21C

Firmware - PCIe NVMe Storage Disk Top

Online NVMe SSD Flash Component for Linux (x64) - EO000400KYDKV and EO000800KYDLA Drives
Version: 4IASHPK3 **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-6758a46eb7-4IASHPK3-1.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-6758a46eb7-4IASHPK3-1.1.x86_64.rpm

Important Note!

- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Fixes

- OCP v2.0 feature support
- NVMe-MI over PCIe VDM support
- Bug fixes

Online NVMe SSD Flash Component for Linux (x64) -MZXLR800HBHQ-000H3, MZXLR1T6HBJR-000H3, MZXLR3T2HBLS-000H3, MZXLR6T4HALA-000H3, MZXLR12THALA-000H3, MZXLR960HBHQ-000H3, MZXLR1T9HBJR-000H3, MZXLR3T8HBLS-000H3, MZXLR7T6HALA-000H3 and MZXLR15THALA-000H3 Drive
Version: MPK7625Q (C) **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-951aefd63e-MPK7625Q-3.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-951aefd63e-MPK7625Q-3.1.x86_64.rpm

Important Note!

- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for RHEL 9.

Online NVMe SSD Flash Component for VMware ESXi - EO000400KYDKV and EO000800KYDLA Drives
Version: 4IASHPK3 **(Recommended)**
Filename: CP053791.compsig; CP053791.zip

Important Note!

- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Fixes

- OCP v2.0 feature support
- NVMe-MI over PCIe VDM support
- Bug fixes

Online NVMe SSD Flash Component for VMware ESXi - MZXLR800HBHQ-000H3, MZXLR1T6HBJR-000H3, MZXLR3T2HBLS-000H3, MZXLR6T4HALA-000H3, MZXLR12THALA-000H3, MZXLR960HBHQ-000H3, MZXLR1T9HBJR-000H3, MZXLR3T8HBLS-000H3, MZXLR7T6HALA-000H3 and MZXLR15THALA-000H Drive
Version: MPK7625Q (C) **(Recommended)**
Filename: CP053726.compsig; CP053726.zip

Important Note!

- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for VMware 8.0

Online NVMe SSD Flash Component for Windows (x64) - EO000400KYDKV and EO000800KYDLA Drives
Version: 4IASHPK3 **(Recommended)**
Filename: cp053792.compsig; cp053792.exe; cp053792.md5

Important Note!

- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Fixes

- OCP v2.0 feature support
- NVMe-MI over PCIe VDM support
- Bug fixes

Online NVMe SSD Flash Component for Windows (x64) - MZXLR800HBHQ-000H3, MZXLR1T6HBJR-000H3, MZXLR3T2HBLS-000H3, MZXLR6T4HALA-000H3, MZXLR12THALA-000H3, MZXLR960HBHQ-000H3, MZXLR1T9HBJR-000H3, MZXLR3T8HBLS-000H3, MZXLR7T6HALA-000H3 and MZXLR15THALA-0 Drives
Version: MPK7625Q (C) **(Recommended)**
Filename: cp053727.compsig; cp053727.exe; cp053727.md5

Important Note!

- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for Microsoft Windows Server 2022.

Firmware - Power Management Top
Online ROM Flash for Linux - Advanced Power Capping Microcontroller Firmware for HPE Gen11 Servers
Version: 1.0.2 **(Recommended)**
Filename: RPMS/x86_64/firmware-powerpic-gen11-1.0.2-1.1.x86_64.compsig; RPMS/x86_64/firmware-powerpic-gen11-1.0.2-1.1.x86_64.rpm

Important Note!

Important Notes:

None

Deliverable Name:

Advanced Power Capping Microcontroller Firmware for HPE Gen11 Servers

Release Version:

1.0.2

Last Recommended or Critical Revision:

This is the initial verison of the firmware

Previous Revision:

This is the initial verison of the firmware

Firmware Dependencies:

None

Enhancements/New Features:

This is the initial verison of the firmware.

Problems Fixed:

None

Known Issues:

None

Prerequisites

The "iLO 6 Channel Interface Driver" (CHIF) for Linux which is integrated into the standard Linux kernel.

Gen11 servers with Power-PIC solution (HPE Proliant DLxx5 and Synergy).

Enhancements

Important Notes:

None

Firmware Dependencies:

None

Enhancements/New Features:

This is the initial verison of the firmware.

Known Issues:

None

Online ROM Flash for Windows x64 - Advanced Power Capping Microcontroller Firmware for HPE Gen11 Servers
Version: 1.0.2 **(Recommended)**
Filename: cp054490.compsig; cp054490.exe

Important Note!

Important Notes:

None

Deliverable Name:

Advanced Power Capping Microcontroller Firmware for HPE Gen11 Servers

Release Version:

1.0.2

Last Recommended or Critical Revision:

This is the initial version of the firmware

Previous Revision:

This is the initial version of the firmware

Firmware Dependencies:

None

Enhancements/New Features:

This is the initial verison of the firmware.

Problems Fixed:

None

Known Issues:

None

Prerequisites

The "iLO 6 Channel Interface Driver" (CHIF) for Windows which is available from Service Pack for ProLiant (SPP).

Gen11 servers with Power-PIC solution (HPE Proliant DLxx5 and Synergy).

Enhancements

Important Notes:

None

Firmware Dependencies:

None

Enhancements/New Features:

This is the initial verison of the firmware.

Known Issues:

None

ROM Flash Firmware Package - Advanced Power Capping Microcontroller Firmware for HPE Gen11 Servers
Version: 1.0.2 **(Recommended)**
Filename: PICGen11-1.0.2-1.fwpkg

Important Note!

Important Notes:

None

Deliverable Name:

Advanced Power Capping Microcontroller Firmware for HPE Gen11 Servers

Release Version:

1.0.2

Last Recommended or Critical Revision:

This is the initial version of the firmware

Previous Revision:

This is the initial version of the firmware

Firmware Dependencies:

None

Enhancements/New Features:

This is the initial version of the firmware.

Problems Fixed:

None

Known Issues:

None

Prerequisites

Integrated Lights-Out 6 (iLO 6) Firmware.

Gen11 servers with Power-PIC solution (HPE Proliant DLxx5 and Synergy).

Enhancements

Important Notes:

None

Firmware Dependencies:

None

Enhancements/New Features:

This is the initial version of the firmware.

Known Issues:

None

Firmware - SAS Storage Disk Top

Online HDD/SSD Flash Component for Linux (x64) - EG000600JWJNP, EG001200JWJNQ, EG000600JXLVV, EG001200JXLWA and EG001200MXJQU Drives
Version: HPD7 **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-bdfb8e99d9-HPD7-1.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-bdfb8e99d9-HPD7-1.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Fixes

- Firmware adds support for new humidity sensor

Online HDD/SSD Flash Component for Linux (x64) - EG001800JWJNR, EG002400JWJNT, EG001800JXLWB, EG002400JXLWC and EG002400MXJQT Drives
Version: HPD9 **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-b1c9eaf74c-HPD9-1.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-b1c9eaf74c-HPD9-1.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Fixes

- Firmware adds support for new humidity sensor

Online HDD/SSD Flash Component for Linux (x64) - MB002000JWFVN and MB004000JWFVP Drives
Version: HPD4 (E) **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-d7af557f47-HPD4-5.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-d7af557f47-HPD4-5.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for RHEL 9.

Online HDD/SSD Flash Component for Linux (x64) - MM1000JEFRB and MM2000JEFRC Drives
Version: HPDA (B) **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-b04257b77b-HPDA-2.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-b04257b77b-HPDA-2.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for RHEL 9.

Online HDD/SSD Flash Component for Linux (x64) - EH000300JWCPK, EH000600JWCPL and EH000900JWCPN Drives
Version: HPD8 (D) **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-3d97759111-HPD8-4.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-3d97759111-HPD8-4.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for RHEL 9.

Online HDD/SSD Flash Component for Linux (x64) - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives Version: HPD3 (C) **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-42aff4675b-HPD3-3.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-42aff4675b-HPD3-3.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for RHEL 9.

Online HDD/SSD Flash Component for Linux (x64) - MB002000JYDNE and MB004000JYDPB Drives Version: HPD2 (C) **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-d4be2aecbb-HPD2-3.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-d4be2aecbb-HPD2-3.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for RHEL 9.

Online HDD/SSD Flash Component for Linux (x64) - MB006000JYDNF and MB008000JYDPC Drives Version: HPD2 (C) **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-b04df66fe9-HPD2-3.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-b04df66fe9-HPD2-3.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.

- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for RHEL 9.

Online HDD/SSD Flash Component for Linux (x64) - MB010000GYDKP, MB012000GYCJL, MB014000GYCJT, MB016000GYDKQ and MB018000GYDKR Drives
Version: HPG1 (B) **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-4fbb6d96e5-HPG1-2.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-4fbb6d96e5-HPG1-2.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for RHEL 9

Online HDD/SSD Flash Component for Linux (x64) - MB010000JWZHA, MB012000JWZHB, MB014000JWZHC and MB016000JWZHE Drives
Version: HPD4 **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-cf0b6cabe1-HPD4-1.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-cf0b6cabe1-HPD4-1.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Fixes

- Addresses a hot plug reporting concern
- Increased the buffer memory size used for sequential write data to resolve performance degradation seen in a RAID60 configuration

---

Online HDD/SSD Flash Component for Linux (x64) - MB010000JYDKK, MB012000JYCJF, MB014000JYCJV, MB016000JYDKL and MB018000JYDKN Drives

Version: HPD1 **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-8173816d98-HPD1-1.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-8173816d98-HPD1-1.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Fixes

- Firmware addresses a hot plug reporting concern

Online HDD/SSD Flash Component for Linux (x64) - MB016000JWXKH Drive
Version: HPD9 (E) **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-8a0371a425-HPD9-5.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-8a0371a425-HPD9-5.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for RHEL 9.

Online HDD/SSD Flash Component for Linux (x64) - MB016000JXLBA and MB018000JXLAU Drives
Version: HPD2 (D) **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-d550523365-HPD2-4.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-d550523365-HPD2-4.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for RHEL 9.

Online HDD/SSD Flash Component for Linux (x64) - MM1000JFJTH Drive
Version: HPD5 (B) **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-fa46c607d6-HPD5-2.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-fa46c607d6-HPD5-2.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for RHEL 9.

Online HDD/SSD Flash Component for Linux (x64) - VO000960JWZJF, VO001920JWZJH, VO003840JWZJK, VO007680JWZJL and VO015360JWZJN Drives
Version: HPD4 (E) **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-35fd24601f-HPD4-5.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-35fd24601f-HPD4-5.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for RHEL 9.

Online HDD/SSD Flash Component for Linux (x64) - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives
Version: HPD6 (D) **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-8fafc9efb2-HPD6-4.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-8fafc9efb2-HPD6-4.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.

- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Fixes

- Reduced the occurrence probability of PMIC busy issue.
- Fixed the system data error at the drive power on issue.
- When the PLP operation starts, the waiting Unmap request to the 4KB not-aligned host write area is canceled to be able to complete PLP correctly.

Enhancements

- Added support for RHEL 9.

Online HDD/SSD Flash Component for VMware ESXi - EG000600JWJNP, EG001200JWJNQ, EG000600JXLVV, EG001200JXLWA and EG001200MXJQU Drives
Version: HPD7 **(Recommended)**
Filename: CP054018.compsig; CP054018.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Fixes

- Firmware adds support for new humidity sensor

Online HDD/SSD Flash Component for VMware ESXi - EG001800JWJNR, EG002400JWJNT, EG001800JXLWB, EG002400JXLWC and EG002400MXJQT Drives
Version: HPD9 **(Recommended)**
Filename: CP054027.compsig; CP054027.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Fixes

- Firmware adds support for new humidity sensor

Online HDD/SSD Flash Component for VMware ESXi - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives
Version: HPD3 (C) **(Recommended)**
Filename: CP053486.compsig; CP053486.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for VMware 8.0

Online HDD/SSD Flash Component for VMware ESXi - MB002000JWFVN and MB004000JWFVP Drives
Version: HPD4 (D) **(Recommended)**
Filename: CP053384.compsig; CP053384.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for VMware 8.0

Online HDD/SSD Flash Component for VMware ESXi - MB002000JYDNE and MB004000JYDPB Drives
Version: HPD2 (C) **(Recommended)**
Filename: CP053343.compsig; CP053343.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc

Enhancements

- Added support for VMware 8.0

Online HDD/SSD Flash Component for VMware ESXi - MB006000JYDNF and MB008000JYDPC Drives
Version: HPD2 (C) **(Recommended)**
Filename: CP053342.compsig; CP053342.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc

Enhancements

- Added support for VMware 8.0

Online HDD/SSD Flash Component for VMware ESXi - MB010000GYDKP, MB012000GYCJL, MB014000GYCJT, MB016000GYDKQ and MB018000GYDKR Drives
Version: HPG1 (B) **(Recommended)**
Filename: CP053502.compsig; CP053502.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- In AHCI configuration only offline flashing is supported.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for VMware 8.0

Online HDD/SSD Flash Component for VMware ESXi - MB010000JWZHA, MB012000JWZHB, MB014000JWZHC and MB016000JWZHE Drives
Version: HPD4 **(Recommended)**
Filename: CP053847.compsig; CP053847.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All

other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Fixes

- Addresses a hot plug reporting concern
- Increased the buffer memory size used for sequential write data to resolve performance degradation seen in a RAID60 configuration

---

Online HDD/SSD Flash Component for VMware ESXi - MB010000JYDKK, MB012000JYCJF, MB014000JYCJV, MB016000JYDKL and MB018000JYDKN Drives
Version: HPD1 **(Recommended)**
Filename: CP053994.compsig; CP053994.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- In AHCI configuration only offline flashing is supported.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Fixes

- Firmware addresses a hot plug reporting concern

Online HDD/SSD Flash Component for VMware ESXi - MM1000JEFRB and MM2000JEFRC Drives
Version: HPDA (B) **(Recommended)**
Filename: CP053416.compsig; CP053416.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for VMware 8.0

Online HDD/SSD Flash Component for VMware ESXi - MM1000JFJTH Drive
Version: HPD5 (B) **(Recommended)**
Filename: CP053418.compsig; CP053418.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for Vmware 8.0

Online HDD/SSD Flash Component for VMware ESXi - EH000300JWCPK, EH000600JWCPL and EH000900JWCPN Drives
Version: HPD8 (C) **(Recommended)**
Filename: CP053494.compsig; CP053494.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for VMware 8.0

Online HDD/SSD Flash Component for VMware ESXi - MB016000JWXKH Drive
Version: HPD9 (D) **(Recommended)**
Filename: CP053442.compsig; CP053442.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for VMware 8.0

Online HDD/SSD Flash Component for VMware ESXi - MB016000JXLBA and MB018000JXLAU Drives

Version: HPD2 (C) **(Recommended)**
Filename: CP053456.compsig; CP053456.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for VMware 8.0

Online HDD/SSD Flash Component for VMware ESXi - VO000960JWZJF, VO001920JWZJH, VO003840JWZJK, VO007680JWZJL and VO015360JWZJN Drives
Version: HPD4 (D) **(Recommended)**
Filename: CP053720.compsig; CP053720.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for VMware 8.0

Online HDD/SSD Flash Component for VMware ESXi - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives
Version: HPD6 (C) **(Recommended)**
Filename: CP053467.compsig; CP053467.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Fixes

- Reduced the occurrence probability of PMIC busy issue.
- Fixed the system data error at the drive power on issue.
- When the PLP operation starts, the waiting Unmap request to the 4KB not-aligned host write area is canceled to be able to complete PLP correctly.

Enhancements

- Added support for VMware 8.0

Online HDD/SSD Flash Component for Windows (x64) - EG000600JWJNP, EG001200JWJNQ, EG000600JXLVV, EG001200JXLWA and EG001200MXJQU Drives
Version: HPD7 **(Recommended)**
Filename: cp054019.compsig; cp054019.exe; cp054019.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Fixes

- Firmware adds support for new humidity sensor

Online HDD/SSD Flash Component for Windows (x64) - EG001800JWJNR, EG002400JWJNT, EG001800JXLWB, EG002400JXLWC and EG002400MXJQT Drives
Version: HPD9 **(Recommended)**
Filename: cp054045.compsig; cp054045.exe; cp054045.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Fixes

- Firmware adds support for new humidity sensor

Online HDD/SSD Flash Component for Windows (x64) - EH000300JWCPK, EH000600JWCPL and EH000900JWCPN Drives
Version: HPD8 (C) **(Recommended)**
Filename: cp052996.compsig; cp052996.exe; cp052996.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for Microsoft Windows Sever 2022.

Online HDD/SSD Flash Component for Windows (x64) - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives Version: HPD3 (C) **(Recommended)**
Filename: cp052991.compsig; cp052991.exe; cp052991.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for Microsoft Windows Sever 2022.

Online HDD/SSD Flash Component for Windows (x64) - MB002000JWFVN and MB004000JWFVP Drives Version: HPD4 (D) **(Recommended)**
Filename: cp052937.compsig; cp052937.exe; cp052937.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for Microsoft Windows Server 2022.

Online HDD/SSD Flash Component for Windows (x64) - MB002000JYDNE and MB004000JYDPB Drives
Version: HPD2 (C) **(Recommended)**
Filename: cp053350.compsig; cp053350.exe; cp053350.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for Microsoft Windows Server 2022,

Online HDD/SSD Flash Component for Windows (x64) - MB006000JYDNF and MB008000JYDPC Drives
Version: HPD2 (C) **(Recommended)**
Filename: cp053345.compsig; cp053345.exe; cp053345.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for Microsoft Windows Server 2022

Online HDD/SSD Flash Component for Windows (x64) - MB010000GYDKP, MB012000GYCJL, MB014000GYCJT, MB016000GYDKQ and MB018000GYDKR Drives
Version: HPG1 (B) **(Recommended)**
Filename: cp053002.compsig; cp053002.exe; cp053002.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for Microsoft Windows Sever 2022.

Online HDD/SSD Flash Component for Windows (x64) - MB010000JWZHA, MB012000JWZHB, MB014000JWZHC and MB016000JWZHE Drives
Version: HPD4 **(Recommended)**
Filename: cp053848.compsig; cp053848.exe; cp053848.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Fixes

- Addresses a hot plug reporting concern
- Increased the buffer memory size used for sequential write data to resolve performance degradation seen in a RAID60 configuration

---

Online HDD/SSD Flash Component for Windows (x64) - MB010000JYDKK, MB012000JYCJF, MB014000JYCJV, MB016000JYDKL and MB018000JYDKN Drives
Version: HPD1 **(Recommended)**
Filename: cp053995.compsig; cp053995.exe; cp053995.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Fixes

- Firmware addresses a hot plug reporting concern

Online HDD/SSD Flash Component for Windows (x64) - MB016000JWXKH Drive
Version: HPD9 (D) **(Recommended)**
Filename: cp052971.compsig; cp052971.exe; cp052971.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for Microsoft Windows Server 2022.

Online HDD/SSD Flash Component for Windows (x64) - MB016000JXLBA and MB018000JXLAU Drives
Version: HPD2 (C) **(Recommended)**
Filename: cp052977.compsig; cp052977.exe; cp052977.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for Microsoft Windows Server 2022.

Online HDD/SSD Flash Component for Windows (x64) - MM1000JEFRB and MM2000JEFRC Drives
Version: HPDA (B) **(Recommended)**
Filename: cp052956.compsig; cp052956.exe; cp052956.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for Microsoft Server Windows 2022.

Online HDD/SSD Flash Component for Windows (x64) - MM1000JFJTH Drive
Version: HPD5 (B) **(Recommended)**
Filename: cp052957.compsig; cp052957.exe; cp052957.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.

- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for Microsoft Server Windows 2022.

Online HDD/SSD Flash Component for Windows (x64) - VO000960JWZJF, VO001920JWZJH, VO003840JWZJK, VO007680JWZJL and VO015360JWZJN Drives
Version: HPD4 (D) **(Recommended)**
Filename: cp053722.compsig; cp053722.exe; cp053722.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for Microsoft Server Windows 2022.

Online HDD/SSD Flash Component for Windows (x64) - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives
Version: HPD6 (C) **(Recommended)**
Filename: cp052981.compsig; cp052981.exe; cp052981.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Fixes

- Reduced the occurrence probability of PMIC busy issue.
- Fixed the system data error at the drive power on issue.
- When the PLP operation starts, the waiting Unmap request to the 4KB not-aligned host write area is canceled to be able to complete PLP correctly.

Firmware - SATA Storage Disk Top

Online HDD/SSD Flash Component for Linux (x64) - MB001000GWFWK and MB002000GWFWL Drives
Version: HPG6 (H) **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-bfc4af697b-HPG6-8.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-bfc4af697b-HPG6-8.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for RHEL 9.

Online HDD/SSD Flash Component for Linux (x64) - MB001000GWJAN, MB002000GWFWA and MB004000GWFWB Drives
Version: HPG1 (I) **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-d39e7a7e75-HPG1-9.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-d39e7a7e75-HPG1-9.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc...

Enhancements

- Added support for RHEL 9.

Online HDD/SSD Flash Component for Linux (x64) - MB004000GWKGV Drive
Version: HPG1 (H) **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-ca21e169e2-HPG1-8.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-ca21e169e2-HPG1-8.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for RHEL 9.

Online HDD/SSD Flash Component for Linux (x64) - MB006000GWKGR Drive
Version: HPG1 (H) **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-7f2a26e6d0-HPG1-8.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-7f2a26e6d0-HPG1-8.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for RHEL 9.

Online HDD/SSD Flash Component for Linux (x64) - MB012000GWDFE Drive
Version: HPG3 (E) **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-059b8654a6-HPG3-5.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-059b8654a6-HPG3-5.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for RHEL 9.

Online HDD/SSD Flash Component for Linux (x64) - MB012000GWTFE and MB014000GWTFF Drives
Version: HPG8 **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-b78255e146-HPG8-1.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-b78255e146-HPG8-1.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Fixes

- Fix for potential hangs and timeouts, tuning fixes based on field experience and maintenance logging items

---

Online HDD/SSD Flash Component for Linux (x64) - MB016000GWXKK Drive
Version: HPG3 (E) **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-e4f147cdd2-HPG3-5.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-e4f147cdd2-HPG3-5.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for RHEL 9.

Online HDD/SSD Flash Component for Linux (x64) - MK000480GWSSC, MK000960GWSSD, MK001920GWSSE and MK003840GWSSF Drives
Version: HPG3 (F) **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-f693ccc138-HPG3-6.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-f693ccc138-HPG3-6.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for RHEL 9.

Online HDD/SSD Flash Component for Linux (x64) - MK000480GWXFF, MK000960GWXFH, MK001920GWXFK and MK003840GWXFL Drives
Version: HPG2 (D) **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-8e1e8083c5-HPG2-4.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-8e1e8083c5-HPG2-4.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for RHEL 9.

Online HDD/SSD Flash Component for Linux (x64) - MM1000GFJTE Drive
Version: HPG6 (B) **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-95af9a555e-HPG6-2.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-95af9a555e-HPG6-2.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for RHEL 9.

Online HDD/SSD Flash Component for Linux (x64) - MM2000GEFRA Drive
Version: HPG9 (B) **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-ec908c3650-HPG9-2.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-ec908c3650-HPG9-2.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for RHEL 9

Online HDD/SSD Flash Component for Linux (x64) - VK000240GWSRQ, VK000480GWSRR, VK000960GWSRT, VK001920GWSRU and VK003840GWSRV Drives
Version: HPG4 (F) **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-db687966b4-HPG4-6.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-db687966b4-HPG4-6.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for RHEL 9.

Online HDD/SSD Flash Component for Linux (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTC, VK003840GWTTD, MK000480GWTTH, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives
Version: HPG6 (F) **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-c566d63ca0-HPG6-6.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-c566d63ca0-HPG6-6.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for RHEL 9.

Online HDD/SSD Flash Component for Linux (x64) - VK000240GXAWE, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives
Version: HPG1 (E) **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-8f9bf23306-HPG1-5.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-8f9bf23306-HPG1-5.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for RHEL 9.

Online HDD/SSD Flash Component for Linux (x64) - VK000480GZCNE, VK000960GZCNF, VK001920GZCNH and VK003840GZCNK Drives
Version: HPG2 (D) **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-befd42bd64-HPG2-4.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-befd42bd64-HPG2-4.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for RHEL 9.

Online HDD/SSD Flash Component for VMware ESXi - MB001000GWFWK and MB002000GWFWL Drives
Version: HPG6 (H) **(Recommended)**
Filename: CP053380.compsig; CP053380.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- In AHCI configuration only offline flashing is supported.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for VMware 8.0

Online HDD/SSD Flash Component for VMware ESXi - MB001000GWJAN, MB002000GWFWA and MB004000GWFWB Drives
Version: HPG1 (H) **(Recommended)**
Filename: CP053382.compsig; CP053382.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- In AHCI configuration only offline flashing is supported.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for VMware 8.0

Online HDD/SSD Flash Component for VMware ESXi - MB004000GWKGV Drive
Version: HPG1 (H) **(Recommended)**
Filename: CP053386.compsig; CP053386.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- In AHCI configuration only offline flashing is supported.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for VMware 8.0

Online HDD/SSD Flash Component for VMware ESXi - MB006000GWKGR Drive
Version: HPG1 (H) **(Recommended)**
Filename: CP053392.compsig; CP053392.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- In AHCI configuration only offline flashing is supported.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for VMware 8.0

Online HDD/SSD Flash Component for VMware ESXi - MB012000GWDFE Drive
Version: HPG3 (D) **(Recommended)**
Filename: CP053400.compsig; CP053400.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- In AHCI configuration only offline flashing is supported.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for VMware 8.0

Online HDD/SSD Flash Component for VMware ESXi - MB012000GWTFE and MB014000GWTFF Drives
Version: HPG8 **(Recommended)**
Filename: CP054181.compsig; CP054181.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- In AHCI configuration only offline flashing is supported.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Fixes

- Fix for potential hangs and timeouts, tuning fixes based on field experience and maintenance logging items

---

Online HDD/SSD Flash Component for VMware ESXi - MB016000GWXKK Drive
Version: HPG3 (D) **(Recommended)**
Filename: CP053445.compsig; CP053445.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.

- In AHCI configuration only offline flashing is supported.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for VMware 8.0

Online HDD/SSD Flash Component for VMware ESXi - MK000480GWSSC, MK000960GWSSD, MK001920GWSSE and MK003840GWSSF Drives
Version: HPG3 (E) **(Recommended)**
Filename: CP053430.compsig; CP053430.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- In AHCI configuration only offline flashing is supported.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for VMware 8.0

Online HDD/SSD Flash Component for VMware ESXi - MK000480GWXFF, MK000960GWXFH, MK001920GWXFK and MK003840GWXFL Drives
Version: HPG2 (C) **(Recommended)**
Filename: CP053458.compsig; CP053458.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- In AHCI configuration only offline flashing is supported.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for VMware 8.0

Online HDD/SSD Flash Component for VMware ESXi - MM1000GFJTE Drive

Version: HPG6 (B) **(Recommended)**
Filename: CP053414.compsig; CP053414.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- In AHCI configuration only offline flashing is supported.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for VMware 8.0

Online HDD/SSD Flash Component for VMware ESXi - MM2000GEFRA Drive
Version: HPG9 (B) **(Recommended)**
Filename: CP053412.compsig; CP053412.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- In AHCI configuration only offline flashing is supported.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for VMware 8.0

Online HDD/SSD Flash Component for VMware ESXi - VK000240GWSRQ, VK000480GWSRR, VK000960GWSRT, VK001920GWSRU, VK003840GWSRV Drives
Version: HPG4 (E) **(Recommended)**
Filename: CP053432.compsig; CP053432.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- In AHCI configuration only offline flashing is supported.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for VMware 8.0

Online HDD/SSD Flash Component for VMware ESXi - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTC, VK003840GWTTD, MK000480GWTTH, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives
Version: HPG6 (E) **(Recommended)**
Filename: CP053424.compsig; CP053424.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- In AHCI configuration only offline flashing is supported.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for VMware 8.0

Online HDD/SSD Flash Component for VMware ESXi - VK000240GXAWE, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB,MK001920GXAWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives
Version: HPG1 (D) **(Recommended)**
Filename: CP053453.compsig; CP053453.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- In AHCI configuration only offline flashing is supported.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for VMware 8.0

Online HDD/SSD Flash Component for VMware ESXi - VK000480GZCNE, VK000960GZCNF, VK001920GZCNH and VK003840GZCNK Drives
Version: HPG2 (C) **(Recommended)**
Filename: CP053478.compsig; CP053478.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- In AHCI configuration only offline flashing is supported.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for VMware 8.0

Online HDD/SSD Flash Component for Windows (x64) - MB001000GWFWK and MB002000GWFWL Drives
Version: HPG6 (G) **(Recommended)**
Filename: cp052935.compsig; cp052935.exe; cp052935.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for Microsoft Windows Server 2022.

Online HDD/SSD Flash Component for Windows (x64) - MB001000GWJAN, MB002000GWFWA and MB004000GWFWB Drives
Version: HPG1 (G) **(Recommended)**
Filename: cp052936.compsig; cp052936.exe; cp052936.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for Microsoft Windows Server 2022.

Online HDD/SSD Flash Component for Windows (x64) - MB004000GWKGV Drive
Version: HPG1 (G) **(Recommended)**
Filename: cp052938.compsig; cp052938.exe; cp052938.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for Microsoft Windows Server 2022.

Online HDD/SSD Flash Component for Windows (x64) - MB006000GWKGR Drive
Version: HPG1 (G) **(Recommended)**
Filename: cp052941.compsig; cp052941.exe; cp052941.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for Microsoft Windows Server 2022.

Online HDD/SSD Flash Component for Windows (x64) - MB012000GWDFE Drive
Version: HPG3 (D) **(Recommended)**
Filename: cp052947.compsig; cp052947.exe; cp052947.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for Microsoft Server Windows 2022.

Online HDD/SSD Flash Component for Windows (x64) - MB012000GWTFE and MB014000GWTFF Drives
Version: HPG8 **(Recommended)**
Filename: cp054182.compsig; cp054182.exe; cp054182.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Fixes

- Fix for potential hangs and timeouts, tuning fixes based on field experience and maintenance logging items

---

Online HDD/SSD Flash Component for Windows (x64) - MB016000GWXKK Drive
Version: HPG3 (D) **(Recommended)**
Filename: cp052972.compsig; cp052972.exe; cp052972.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for Microsoft Windows Server 2022.

Online HDD/SSD Flash Component for Windows (x64) - MK000480GWSSC, MK000960GWSSD, MK001920GWSSE and MK003840GWSSF Drives
Version: HPG3 (E) **(Recommended)**
Filename: cp052964.compsig; cp052964.exe; cp052964.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for Microsoft Server Windows 2022.

Online HDD/SSD Flash Component for Windows (x64) - MK000480GWXFF, MK000960GWXFH, MK001920GWXFK and MK003840GWXFL Drives
Version: HPG2 (C) **(Recommended)**
Filename: cp052978.compsig; cp052978.exe; cp052978.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for Microsoft Server Windows 2022.

Online HDD/SSD Flash Component for Windows (x64) - MM1000GFJTE Drive
Version: HPG6 (B) **(Recommended)**
Filename: cp052955.compsig; cp052955.exe; cp052955.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for Microsoft Server Windows 2022.

Online HDD/SSD Flash Component for Windows (x64) - MM2000GEFRA Drive
Version: HPG9 (B) **(Recommended)**
Filename: cp052954.compsig; cp052954.exe; cp052954.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.

- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for Microsoft Server Windows 2022.

Online HDD/SSD Flash Component for Windows (x64) - VK000240GWSRQ, VK000480GWSRR, VK000960GWSRT, VK001920GWSRU and VK003840GWSRV Drives
Version: HPG4 (E) **(Recommended)**
Filename: cp052965.compsig; cp052965.exe; cp052965.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for Microsoft Server Windows 2022.

Online HDD/SSD Flash Component for Windows (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTC, VK003840GWTTD, MK000480GWTTH, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives
Version: HPG6 (E) **(Recommended)**
Filename: cp052961.compsig; cp052961.exe; cp052961.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for Microsoft Windows Server 2022.

Online HDD/SSD Flash Component for Windows (x64) - VK000240GXAWE, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF,

MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives
Version: HPG1 (D) **(Recommended)**
Filename: cp052976.compsig; cp052976.exe; cp052976.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for Microsoft Windows Server 2022.

Online HDD/SSD Flash Component for Windows (x64) - VK000480GZCNE, VK000960GZCNF, VK001920GZCNH and VK003840GZCNK Drives
Version: HPG2 (C) **(Recommended)**
Filename: cp052985.compsig; cp052985.exe; cp052985.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for Microsoft Windows Sever 2022.

Firmware - Storage Controller Top

Firmware Package - HPE Gen11 Boot Controller NS204i-u, NS204i-d and Gen10P Boot Controller NS204i-p for Gen11 Servers
Version: 1.2.14.1004 **(Recommended)**
Filename: HPE_NS204i_Gen11_1.2.14.1004.fwpkg

Enhancements

New Initial with NS204i-u

Firmware Package - HPE MR216i-o Gen11 Tri Mode Controller
Version: 52.22.3-4650 **(Recommended)**
Filename: HPE_MR216i-o_Gen11_52.22.3-4650.fwpkg

Important Note!

This firmware version to be used on HPE MR216i-o Gen11 Controller.

Enhancements

Initial release.

Firmware Package - HPE MR216i-p Gen10 Plus Tri Mode Controller with Gen11 servers
Version: 52.22.3-4650 **(Recommended)**
Filename: HPE_MR216i-p_Gen10_52.22.3-4650.fwpkg

Important Note!

This firmware version to be used on HPE MR216i-p Gen10 Plus Controller.

Enhancements

Initial release.

Firmware Package - HPE MR216i-p Gen11 Tri Mode Controller
Version: 52.22.3-4650 **(Recommended)**
Filename: HPE_MR216i-p_Gen11_52.22.3-4650.fwpkg

Important Note!

This firmware version to be used on HPE MR216i-p **Gen11 Controller.**

Enhancements

Initial release.

Firmware Package - HPE MR408i-o Gen11 Tri Mode Controller
Version: 52.22.3-4650 **(Recommended)**
Filename: HPE_MR408i-o_Gen11_52.22.3-4650.fwpkg

Important Note!

This firmware version to be used on HPE MR408i-o Gen11 Controller.

Enhancements

Initial release.

Firmware Package - HPE MR416i-o Gen11 Tri Mode Controller
Version: 52.22.3-4650 **(Recommended)**
Filename: HPE_MR416i-o_Gen11_52.22.3-4650.fwpkg

Important Note!

This firmware version to be used on HPE MR416i-o Gen11 Controller.

Enhancements

Initial release.

Firmware Package - HPE MR416i-p Gen10 Plus Tri Mode Controller with Gen11 servers
Version: 52.22.3-4650 **(Recommended)**
Filename: HPE_MR416i-p_Gen10_52.22.3-4650.fwpkg

Important Note!

This firmware version to be used on HPE MR416i-p Gen10 Plus Controller.

Enhancements

Initial release.

Firmware Package - HPE MR416i-p Gen11 Tri Mode Controller
Version: 52.22.3-4650 **(Recommended)**
Filename: HPE_MR416i-p_Gen11_52.22.3-4650.fwpkg

Important Note!

This firmware version to be used on HPE MR416i-p Gen11 Controller.

Enhancements

Initial release.

Firmware Package - HPE SR932i-p Gen11 Controllers
Version: 03.01.14.062 (B) **(Recommended)**
Filename: HPE_SR932_Gen11_03.01.14.062_B.fwpkg

Enhancements

Initial fwpkg release for Gen11 servers.

Online ROM Flash Component for Linux (x64) - HPE Smart Array E208e-p SR Gen10 on Gen11 servers
Version: 5.32 (C) **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-smartarray-f7c07bdbbd-5.32-3.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-smartarray-f7c07bdbbd-5.32-3.1.x86_64.rpm

Enhancements

- Add Gen11 servers into support list

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

Online ROM Flash Component for Windows (x64) - HPE Smart Array E208e-p SR Gen10 on Gen11 servers
Version: 5.32 (C) **(Recommended)**
Filename: cp053950.compsig; cp053950.exe; cp053950.md5

Enhancements

- Add Gen11 servers into support list

Firmware - Storage Fibre Channel Top

HPE Firmware Flash for Emulex 16/32Gb Fibre Channel Host Bus Adapters
Version: 14.0.499.25 **(Recommended)**
Filename: B14.0.499.25_header.pldm.fwpkg

Important Note!

NOTE: This is the first PLDM fwpkg component release and is not supported for upgrade from older versions.

This Firmware package contains following firmware versions:

Adapter	Speed	Universal Boot Image	Firmware	UEFI	Boot Bios
HPE SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	16Gb	14.0.499.25	14.0.499.25	14.0.499.2	14.0.490.0
HPE SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	16Gb	14.0.499.25	14.0.499.25	14.0.499.2	14.0.490.0

Prerequisites

The minimum version for adapter to support PLDM is 14.0.499.20

Enhancements

NOTE: This is the first PLDM fwpkg component release and is not supported for upgrade from older versions.

This Firmware package contains following firmware versions:

Adapter	Speed	Universal Boot Image	Firmware	UEFI	Boot Bios
HPE SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	16Gb	14.0.499.25	14.0.499.25	14.0.499.2	14.0.490.0
HPE SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	16Gb	14.0.499.25	14.0.499.25	14.0.499.2	14.0.490.0

Supported Devices and Features

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

16Gb FC Adapter:

- HPE SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter

HPE Firmware Flash for Emulex 32Gb and 64Gb Fibre Channel Host Bus Adapters
Version: 14.0.499.25 **(Recommended)**
Filename: P14.0.499.25_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	14.0.499.25	14.0.499.25	14.0.499.2	14.0.490.0
HPE SN1610E 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	14.0.499.25	14.0.499.25	14.0.499.2	14.0.490.0
HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	14.0.499.25	14.0.499.25	14.0.499.2	14.0.490.0
HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	14.0.499.25	14.0.499.25	14.0.499.2	14.0.490.0

Prerequisites

The minimum version for adapter to support PLDM is 14.0.499.20

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	14.0.499.25	14.0.499.25	14.0.499.2	14.0.490.0
HPE SN1610E 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	14.0.499.25	14.0.499.25	14.0.499.2	14.0.490.0
HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	14.0.499.25	14.0.499.25	14.0.499.2	14.0.490.0
HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	14.0.499.25	14.0.499.25	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

HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters - Linux (x86_64)
Version: 2022.08.01 **(Recommended)**
Filename: RPMS/x86_64/firmware-fc-qlogic-2022.08.01-1.27.x86_64.compsig;
RPMS/x86_64/firmware-fc-qlogic-2022.08.01-1.27.x86_64.rpm

Important Note!

This Firmware package contains following firmware versions:

Adapter	Speed	MBI	Firmware	UEFI	Boot Bios
HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	02.07.01	09.09.00	7.28	0.0
HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	02.07.01	09.09.00	7.28	0.0

Prerequisites

Firmware updates may be accomplished using the inbox or Out of Box (OOB) drivers. Please consult SPOCK for a list of supported configurations available at the following link:

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

The target environment must have the libHBAAPI Package installed prior to the installation of the firmware as the discovery of adapters might not complete without the library. (If not already present, the libHBAAPI Package can be obtained from the operating system installation media.)

The HPE supplied enablement kit must be installed prior to this firmware component being identified by SUM for deployment.

The OOB driver and enablement kit are available on the Service Pack for ProLiant (SPP) which is available at http://www.hpe.com/servers/spp/download.

- It is advised to provide read-write permissions on /var/tmp folder. Firmware deployment via Service Pack for ProLiant(SPP) might be unsuccessful in some cases , if read-write(rw) permissions are not enable on /tmp or /var/tmp directories.

Enhancements

This Firmware package contains following firmware versions:

Adapter	Speed	MBI	Firmware	UEFI	Boot Bios
HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	02.07.01	09.09.00	7.28	0.0
HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	02.07.01	09.09.00	7.28	0.0

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

---

HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters - Microsoft Windows Server 2019/2022 (x86_64)
Version: 2022.08.01 **(Recommended)**
Filename: cp050076.compsig; cp050076.exe

Important Note!

This Firmware package contains following firmware versions:

Adapter	Speed	MBI	Firmware	UEFI	Boot Bios
HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	02.07.01	09.09.00	7.28	0.0
HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	02.07.01	09.09.00	7.28	0.0

Prerequisites

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

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

The OOB driver is available on the Service Pack for ProLiant (SPP) which is available at http://www.hpe.com/servers/spp/download.

Enhancements

This Firmware package contains following firmware versions:

Adapter	Speed	MBI	Firmware	UEFI	Boot Bios
HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	02.07.01	09.09.00	7.28	0.0
HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	02.07.01	09.09.00	7.28	0.0

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

---

HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters for VMware vSphere 7.0
Version: 2022.08.01 **(Recommended)**
Filename: CP050074.compsig; CP050074.zip

Important Note!

This Firmware package contains following firmware versions:

Adapter	Speed	MBI	Firmware	UEFI	Boot Bios
HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	02.07.01	09.09.00	7.28	0.0
HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	02.07.01	09.09.00	7.28	0.0

Prerequisites

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

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

The HPE supplied Qlogic driver must be installed prior to this firmware component being identified by SUM for deployment. The OOB driver is available on the Service Pack for ProLiant (SPP) which is available at http://www.hpe.com/servers/spp/download/

Enhancements

This Firmware package contains following firmware versions:

Adapter	Speed	MBI	Firmware	UEFI	Boot Bios
HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	02.07.01	09.09.00	7.28	0.0
HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	02.07.01	09.09.00	7.28	0.0

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

---

HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters for VMware vSphere 8.0
Version: 2022.08.01 **(Recommended)**
Filename: CP050083.compsig; CP050083.zip

Important Note!

This Firmware package contains following firmware versions:

Adapter	Speed	MBI	Firmware	UEFI	Boot Bios
HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	02.07.01	09.09.00	7.28	0.0
HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	02.07.01	09.09.00	7.28	0.0

Prerequisites

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

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

The HPE supplied Qlogic driver must be installed prior to this firmware component being identified by SUM for deployment. The OOB driver is available on the Service Pack for ProLiant (SPP) which is available at http://www.hpe.com/servers/spp/download/

Enhancements

This Firmware package contains following firmware versions:

Adapter	Speed	MBI	Firmware	UEFI	Boot Bios
HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	02.07.01	09.09.00	7.28	0.0
HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	02.07.01	09.09.00	7.28	0.0

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

---

Firmware - System Top

Firmware Package - UBM2 Backplane PIC PLDM Firmware for Gen11 Servers
Version: 1.20 (C) **(Recommended)**
Filename: HPE_UBM2_1.20_C.fwpkg

Important Note!

FWPKG component only supports installation of UBM2 firmware when attached to below controllers

- **HPE SR416/SR932 Gen11 controllers(Firmware version 03.01.14.062 or later is need)**
- **HPE SR308 Gen11 controllers and E208e-p Gen10 controllers(Firmware version 5.59 or later is need)**
- **HPE MR416/MR216/MR408 Gen11 controllers and HPE MR416i-p/MR216i-p Gen10P controllers (Firmware version 52.22.3-4650 or later is need)**

FWPKG component can be supported installation of UBM2 firmware when direct attached the the server

Prerequisites

- iLO 6 version 1.10 or later is required.

Enhancements

- Initial Release

Firmware Package - UBM3 Backplane PIC PLDM Firmware for Gen11 servers usage
Version: 1.24 (C) **(Recommended)**
Filename: HPE_UBM3_1.24_C.fwpkg

Important Note!

FWPKG component only supports installation of UBM3 firmware when attached to below controllers

- **HPE SR416/SR932 Gen11 controllers(Firmware version 03.01.14.062 or later is need)**
- **HPE SR308 Gen11 controllers and E208e-p Gen10 controllers(Firmware version 5.59 or later is need)**
- **HPE MR416/MR216/MR408 Gen11 controllers and HPE MR416i-p/MR216i-p Gen10P controllers (Firmware version 52.22.3-4650 or later is need)**

FWPKG component can be supported installation of UBM3 firmware when direct attached the the server

Prerequisites

- iLO 6 version 1.10 or later is required.

Enhancements

For Gen11 PR1 usage

Firmware Package - UBM4 Backplane PIC PLDM Firmware for Gen11 servers usage
Version: 1.24 (C) **(Recommended)**
Filename: HPE_UBM4_1.24_C.fwpkg

Important Note!

FWPKG component only supports installation of UBM4 firmware when attached to below controllers

- **HPE SR416/SR932 Gen11 controllers(Firmware version 03.01.14.062 or later is need)**
- **HPE SR308 Gen11 controllers and E208e-p Gen10 controllers(Firmware version 5.59 or later is need)**
- **HPE MR416/MR216/MR408 Gen11 controllers and HPE MR416i-p/MR216i-p Gen10P controllers (Firmware version 52.22.3-4650 or later is need)**

FWPKG component can be supported installation of UBM4 firmware when direct attached the the server

Prerequisites

- iLO 6 version 1.10 or later is required.

Enhancements

For Gen11 PR1 usage.

Firmware Package - UBM6 Backplane PIC PLDM Firmware for Gen11 servers usage
Version: 1.02 (B) **(Recommended)**
Filename: HPE_UBM6_1.02_B.fwpkg

Important Note!

FWPKG component only supports installation of UBM6 firmware when attached to below controllers

- **HPE SR416/SR932 Gen11 controllers(Firmware version 03.01.14.062 or later is need)**
- **HPE SR308 Gen11 controllers and E208e-p Gen10 controllers(Firmware version 5.59 or later is need)**
- **HPE MR416/MR216/MR408 Gen11 controllers and HPE MR416i-p/MR216i-p Gen10P controllers (Firmware version 52.22.3-4650 or later is need)**

FWPKG component can be supported installation of UBM6 firmware when direct attached the the server

Prerequisites

- iLO 6 version 1.10 or later is required.

Enhancements

For Gen11 PR1 usage.

Operating System - Enhancements Top

AMD PSHED Plug-in service for Microsoft Windows Server 2019
Version: 1.0.0.49 **(Recommended)**
Filename: cp053846.compsig; cp053846.exe

Enhancements

- Driver update

AMD PSHED Plug-in service for Microsoft Windows Server 2022
Version: 1.0.0.49 **(Recommended)**
Filename: cp054499.compsig; cp054499.exe

Enhancements

Initial release.

Software - Lights-Out Management Top

HPE Lights-Out Online Configuration Utility for Linux (AMD64/EM64T)
Version: 6.0.0-0 **(Optional)**
Filename: hponcfg-6.0.0-0.x86_64.compsig; hponcfg-6.0.0-0.x86_64.rpm

Prerequisites

For Integrated Lights-Out 5, this utility requires minimum firmware revision 1.20 or later.

The management interface driver and management agents must be installed on the server.

For iLO 5 or later, openssl v1.0.x or later is required in addition to above packages.
Customers who manually compile and install openssl or intentionally relocate /usr/bin/openssl, need to set PATH environment variable to direct HPONCFG to the right/intended openssl.

Enhancements

Introduced support for iLO6.

HPE Lights-Out Online Configuration Utility for Windows x64 Editions
Version: 6.0.0.0 **(Optional)**
Filename: cp049814.compsig; cp049814.exe

Prerequisites

This utility requires the following minimum firmware revisions:

- Integrated Lights-Out 4 firmware v1.00 or later
- Integrated Lights-Out 5 firmware v1.30 or later
- Integrated Lights-Out 6 firmware v1.10 or later

The management interface driver must be installed on the server.

Microsoft .Net Framework 2.0 or later is required to launch HPONCFG GUI.

Enhancements

Introduced support for iLO 6.

Software - Management Top

HPE Agentless Management Bundle Smart Component on ESXi for Gen11 Servers
Version: 2022.11.01 **(Recommended)**
Filename: cp049974.compsig; cp049974.zip

Enhancements

Agentless Management Service

- First release of Agentless Management Service for ESXi HPE ProLiant Gen11 Servers.

HPE Fiber Channel and Storage Enablement Bundle Smart Component for ESXi 7.0
Version: 2022.09.01 **(Recommended)**
Filename: cp050934.compsig; cp050934.zip

Enhancements

- Supports VMware ESXi 7.0 U2 and ESXi 7.0 U3

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

Smart Storage Administrator (SSA) CLI Smart Component for ESXi 7.0 for Gen11 Servers
Version: 2022.11.01 (B) **(Recommended)**
Filename: cp054900.compsig; cp054900.zip

Enhancements

Initial release for Gen11 servers.

Smart Storage Administrator (SSA) CLI Smart Component for ESXi 8.0 for Gen11 Servers
Version: 2022.11.01 (B) **(Recommended)**
Filename: cp054901.compsig; cp054901.zip

Enhancements

Initial release for Gen11 servers.

Software - Storage Controller **Top**

HPE MegaRAID Storage Administrator StorCLI for VMware7.0 (For Gen11 Controllers)
Version: 2022.10.00 (B) **(Recommended)**
Filename: cp054203.compsig; cp054203.zip

Enhancements

Initial Release with Gen11 MR controllers.

Software - Storage Fibre Channel **Top**

HPE QLogic Fibre Channel driver component for VMware vSphere 7.0
Version: 2022.08.01 **(Recommended)**
Filename: cp050073.compsig; cp050073.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.

This driver is supported only on 7.0U3

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

the Driver is supported only on 7.0U3

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

---

HPE QLogic Fibre Channel driver component for VMware vSphere 8.0
Version: 2022.08.01 **(Recommended)**
Filename: cp050082.compsig; cp050082.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

- Made improvements to the Fabric Port Identification Number (FPIN) and Universal Storage Area Network (SAN) Congestion Mitigation(USCM) Congestion Management algorithm

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

---

HPE Storage Emulex Fibre Channel driver component for VMware vSphere 7.0
Version: 2022.08.01 **(Recommended)**
Filename: cp050069.compsig; cp050069.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

Updated to Driver version 14.0.543.0

Supported Devices and Features

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

32Gb FC Adapter:

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

64Gb FC Adapter:

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

---

Software - Storage Fibre Channel HBA Top

Fibreutils for HPE Storage Fibre Channel Host Bus Adapters for Linux -Red Hat Enterprise Linux (RHEL)
Version: 4.2-1 **(Optional)**
Filename: fibreutils-4.2-1_rhel.x86_64.compsig; fibreutils-4.2-1_rhel.x86_64.rpm

Prerequisites

- Requires the following packages to be installed: glibc libgcc libstdc++ bash perl

Enhancements

This package supports only Red Hat Enterprise Linux (RHEL) Distros

Supported Devices and Features

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

32Gb FC Adapter:

- HPE SN1610E 32Gb Dual port Fibre Channel Host Bus Adapter
- HPE SN1610E 32Gb Single port 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 FC Adapter:

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

---

Fibreutils for HPE Storage Fibre Channel Host Bus Adapters for Linux -SuSE Linux Enterprise Server(SLES)
Version: 4.2-1 **(Optional)**
Filename: fibreutils-4.2-1_sles.x86_64.compsig; fibreutils-4.2-1_sles.x86_64.rpm

Prerequisites

Requires the following packages to be installed: glibc libgcc libstdc++ bash perl

Enhancements

This package supports only SuSE Linux Enterprise Server(SLES) Distros

Supported Devices and Features

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

32Gb FC Adapter:

- HPE SN1610E 32Gb Dual port Fibre Channel Host Bus Adapter
- HPE SN1610E 32Gb Single port 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 FC Adapter:

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

---

HPE Emulex Fibre Channel Enablement Kit for Host Bus Adapters for Red Hat Enterprise Linux 8 Server Version: 14.0.499.23 **(Recommended)**
Filename: HPE-CNA-FC-Emulex-Enablement-Kit-14.0.499.23-1.rhel8.x86_64.compsig; HPE-CNA-FC-Emulex-Enablement-Kit-14.0.499.23-1.rhel8.x86_64.rpm

Important Note!

The target environment must have the libHBAAPI Package installed prior to the installation of the enablement kit. (If not already present, the libHBAAPI Package can be obtained from the operating system installation media.)

Prerequisites

The target environment must have the libHBAAPI Package installed prior to the installation of the enablement kit. (If not already present, the libHBAAPI Package can be obtained from the operating system installation media.)

Enhancements

Updated to version 14.0.499.23-1

Supported Devices and Features

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

32Gb FC Adapter:

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

64Gb FC Adapter:

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

---

HPE Emulex Fibre Channel Enablement Kit for Host Bus Adapters for Red Hat Enterprise Linux 9 Server Version: 14.0.499.23 **(Recommended)**
Filename: HPE-CNA-FC-Emulex-Enablement-Kit-14.0.499.23-1.rhel9.x86_64.compsig; HPE-CNA-FC-Emulex-Enablement-Kit-14.0.499.23-1.rhel9.x86_64.rpm

Important Note!

The target environment must have the elxocmcorekit Package (with same version as Enablement kit) installed prior to the installation of the enablement kit. The elxocmcorekit package can be obtained from SPP or can be downloaded from the link https://www.hpe.com/global/swpublishing/MTX-a092e5af090f49cfa5be7bc7c1

Prerequisites

The target environment must have the elxocmcorekit Package (with same version as Enablement kit) installed prior to the installation of the enablement kit. The elxocmcorekit package can be obtained from SPP or can be downloaded from the link https://www.hpe.com/global/swpublishing/MTX-a092e5af090f49cfa5be7bc7c1

Enhancements

Updated to version 14.0.499.23-1

Supported Devices and Features

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

32Gb FC Adapter:

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

64Gb FC Adapter:

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

---

HPE Emulex Fibre Channel Enablement Kit for Host Bus Adapters for SuSE Linux Enterprise Server 15
Version: 14.0.499.23 **(Recommended)**
Filename: HPE-CNA-FC-Emulex-Enablement-Kit-14.0.499.23-1.sles15sp4.x86_64.compsig; HPE-CNA-FC-Emulex-Enablement-Kit-14.0.499.23-1.sles15sp4.x86_64.rpm

Important Note!

The target environment must have the libHBAAPI Package installed prior to the installation of the enablement kit. (If not already present, the libHBAAPI Package can be obtained from the operating system installation media.)

Rewrite of same Enablement kit version on SuSE Linux Enterprise Server 15 service pack 4 has to be performed using --reinstall option

Example: rpm –Uvh HPE-CNA-FC-Emulex-Enablement-Kit-<version>.<OS>.<architecture>.rpm --reinstall

For more information please refer the Knowledge Base at: https://www.suse.com/support/kb/doc/?id=000019640

Prerequisites

The target environment must have the libHBAAPI Package installed prior to the installation of the enablement kit. (If not already present, the libHBAAPI Package can be obtained from the operating system installation media.)

Enhancements

Updated to version 14.0.499.23

Supported Devices and Features

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

32Gb FC Adapter:

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

64Gb FC Adapter:

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

---

HPE Emulex Fibre Channel HBAManager Core Kit for Host Bus Adapters for Red Hat Enterprise Linux 9 Server
Version: 14.0.499.23 **(Optional)**
Filename: elxocmcorekit-14.0.499.23-1.rhel9.x86_64.compsig; elxocmcorekit-14.0.499.23-1.rhel9.x86_64.rpm

Prerequisites

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

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

Enhancements

Updated to version 14.0.499.23

Supported Devices and Features

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

32Gb FC Adapter:

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

64Gb FC Adapter:

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

---

HPE Emulex Fibre Channel Smart SAN Enablement Kit for Host Bus Adapters for Microsoft Windows Server 2019 (x86_64)
Version: 1.0.0.1 **(Optional)**
Filename: cp050068.compsig; cp050068.exe

Important Note!

The Smart SAN enablement kit will not execute when an operating system has only the inbox fibre channel driver installed. An out of box (OOB) fibre channel driver is needed to utilize Smart SAN functionality. If any OOB driver is installed, the enablement kit will pre-enable/disable Smart SAN functionality for future use. It can then be activated once a Smart SAN enabled OOB driver is installed (see Prerequisite Notes) and after a reboot has occured.

Obtain Smart SAN User Guide for 3PAR at following link: HPE Smart SAN for 3PAR 2.0 User Guide

Prerequisites

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

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

The HPE supplied fibre channel driver must be installed prior to this enablement kit component if you want to enable Smart SAN functionality. The latest Emulex FC driver 14.0.534.0 cp050064.exe is available on the Service Pack for ProLiant (SPP) which is available at http://www.hpe.com/servers/spp/download/

However, if a Smart SAN enabled driver is not installed at execution time, the component will land the enablement kit files for future use after the driver has been installed.

Enhancements

Updated to version 1.0.0.1

Supported Devices and Features

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

32Gb FC Adapter:

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

64Gb FC Adapter:

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

---

HPE Emulex Fibre Channel Smart SAN Enablement Kit for Host Bus Adapters for Microsoft Windows Server 2022 (x86_64)
Version: 1.0.0.1 **(Optional)**
Filename: cp050067.compsig; cp050067.exe

Important Note!

The Smart SAN enablement kit will not execute when an operating system has only the inbox fibre channel driver installed. An out of box (OOB) fibre channel driver is needed to utilize Smart SAN functionality. If any OOB driver is installed, the enablement kit will pre-enable/disable Smart SAN functionality for future use. It can then be activated once a Smart SAN enabled OOB driver is installed (see Prerequisite Notes) and after a reboot has occured.

Obtain Smart SAN User Guide for 3PAR at following link: HPE Smart SAN for 3PAR 2.0 User Guide

Prerequisites

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

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

The HPE supplied fibre channel driver must be installed prior to this enablement kit component if you want to enable Smart SAN functionality. The driver is available on the HPE.com website at www.hpe.com.

HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver v14.0.534.0 cp050065.exe

However, if a Smart SAN enabled driver is not installed at execution time, the component will land the enablement kit files for future use after the driver has been installed.

Enhancements

Updated to version 1.0.0.1

Supported Devices and Features

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

32Gb FC Adapter:

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

64Gb FC Adapter:

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

---

HPE Emulex Smart SAN Enablement Kit for Linux
Version: 1.0.0.0-4 **(Optional)**
Filename: hpe-emulex-smartsan-enablement-kit-1.0.0.0-4.x86_64.compsig; hpe-emulex-smartsan-enablement-kit-1.0.0.0-4.x86_64.rpm

Important Note!

Obtain Smart SAN User Guide for 3PAR at following link: HPE Smart SAN for 3PAR 2.0 User Guide

Prerequisites

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

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

The HPE supplied fibre channel driver must be installed prior to this enablement kit component if you want to enable Smart SAN functionality. The driver is available on the HPE.com website at www.hpe.com.

Linux FC Driver Kit for HPE Emulex FC HBAs, version 14.0.xxx.x for RedHat 8, RedHat 9 and SUSE 15.

However, if a Smart SAN enabled driver is not installed at execution time, the component will land the enablement kit files for future use after the driver has been installed.

Enhancements

Updated to version 1.0.0.0-4

Supported Devices and Features

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

32Gb FC Adapter:

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

64Gb FC Adapter:

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

---

HPE QLogic Fibre Channel Enablement Kit for Host Bus Adapter for Linux
Version: 6.0.0.0-18 **(Recommended)**
Filename: HPE-CNA-FC-hpeqlgc-Enablement-Kit-6.0.0.0-18.noarch.compsig; HPE-CNA-FC-hpeqlgc-Enablement-Kit-6.0.0.0-18.noarch.rpm

Important Note!

Release Notes:
HPE QLogic Adapters Release Notes

The Enablement Kit requires that the target environment have the libHBAAPI package installed from your OS installation media.

The Linux Enablement kit has been changed from "HP-CNA-FC-hpqlgc-Enablement-Kit" to "HPE-CNA-FC-hpeqlgc-Enablement-Kit". Upgrade from the older released Enablement kit is supported. However downgrade to earlier version "HP-CNA-FC-hpqlgc-Enablement-Kit" may not be successful and may report conflicts.

Workaround : Please uninstall the Enablement kit and install the older versions

Rewrite of same Enablement kit version on SuSE Linux Enterprise Server 15 service pack 3 has to be performed using --reinstall option

Example: rpm –Uvh HPE-CNA-FC-hpeqlgc-Enablement-Kit-<version>.noarch.rpm --force --nodeps

For more information please refer the Knowledge Base at: https://www.suse.com/support/kb/doc/?id=000019640

Prerequisites

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

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

The Enablement Kit requires that the target environment have the libHBAAPI package installed from your OS installation media.

Enhancements

Updated the kit to version 6.0.0.0-18

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

---

HPE QLogic Smart SAN Enablement Kit for Fibre Channel Host Bus Adapter for Microsoft Windows Server 2019 (x86_64)
Version: 1.0.0.1 **(Optional)**
Filename: cp050081.compsig; cp050081.exe

Important Note!

The Smart SAN enablement kit will not execute when an operating system has only the inbox fibre channel driver installed. An out of box (OOB) fibre channel driver is needed to utilize Smart SAN functionality. If any OOB driver is installed, the enablement kit will pre-enable/disable Smart SAN functionality for future use. It can then be activated once a Smart SAN enabled OOB driver is installed (see Prerequisite Notes) and after a reboot has occured.

Obtain Smart SAN User Guide for 3PAR at following link: HPE Smart SAN for 3PAR 2.0 User Guide

Prerequisites

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

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

The HPE supplied fibre channel driver must be installed prior to this enablement kit component if you want to enable Smart SAN functionality. The latest Qlogic FC driver 9.4.6.20 is available on the Service Pack for ProLiant (SPP) which is available at http://www.hpe.com/servers/spp/download/

However, if a Smart SAN enabled driver is not installed at execution time, the component will land the enablement kit files for future use after the driver has been installed.

Enhancements

Updated to version 1.0.0.1

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

---

HPE QLogic Smart SAN Enablement Kit for Fibre Channel Host Bus Adapter for Microsoft Windows Server 2022 (x86_64)
Version: 1.0.0.1 **(Optional)**
Filename: cp050080.compsig; cp050080.exe

Important Note!

The Smart SAN enablement kit will not execute when an operating system has only the inbox fibre channel driver installed. An out of box (OOB) fibre channel driver is needed to utilize Smart SAN functionality. If any OOB driver is installed, the enablement kit will pre-enable/disable Smart SAN functionality for future use. It can then be activated once a Smart SAN enabled OOB driver is installed (see Prerequisite Notes) and after a reboot has occured.

Obtain Smart SAN User Guide for 3PAR at following link: HPE Smart SAN for 3PAR 2.0 User Guide

Prerequisites

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

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

The HPE supplied fibre channel driver must be installed prior to this enablement kit component if you want to enable Smart SAN functionality. The driver is available on the HPE.com website at www.hpe.com.

- HPE Storage Fibre Channel Adapter Kit for the QLogic Storport Driver for Windows Server 2022 version 9.4.6.20, cp050079.exe

However, if a Smart SAN enabled driver is not installed at execution time, the component will land the enablement kit files for future use after the driver has been installed.

Enhancements

Updated to version 1.0.0.1

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

---

HPE QLogic Smart SAN enablement kit for Linux
Version: 3.3-3 **(Optional)**
Filename: hpe-qlogic-smartsan-enablement-kit-3.3-3.x86_64.compsig; hpe-qlogic-smartsan-enablement-kit-3.3-3.x86_64.rpm

Important Note!

Obtain Smart SAN User Guide for 3PAR at following link: HPE Smart SAN for 3PAR 2.0 User Guide

Prerequisites

Please consult SPOCK for a list of supported configurations available at the following link:http://www.hpe.com/storage/spock/

The HPE supplied fibre channel driver must be installed prior to this enablement kit component if you want to enable Smart SAN functionality. The driver is available on the HPE.com website at www.hpe.com.

- Red Hat Enterprise Linux 8 Server FC Driver Kit for HPE QLogic HBAs , version 10.02.07.00-k1.
- Red Hat Enterprise Linux 9 Server FC Driver Kit for HPE QLogic HBAs , version 10.02.07.00-k1.
- SUSE Linux Enterprise Server 15 FC Driver Kit for HPE QLogic HBAs, version 10.02.07.00-k1.

However, if a Smart SAN enabled driver is not installed at execution time, the component will land the enablement kit files for future use after the driver has been installed.

Enhancements

Updated to version 3.3-3

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

---

Software - System Management Top

Agentless Management Service (iLO 5, iLO 6) for Red Hat Enterprise Linux 9 Server
Version: 3.1.0 **(Optional)**
Filename: amsd-3.1.0-1745.130.rhel9.x86_64.compsig; amsd-3.1.0-1745.130.rhel9.x86_64.rpm

Prerequisites

- **amsd only supported on HPE Gen10/Gen10 Plus/Gen11 Servers.**
- **amsd provides information to the iLO 6 service providing SNMP support.**
- **Requirements:**
  - Minimum iLO 5 Firmware Version = 2.70

        - Minimum supported OS Versions = Red Hat Enterprise Linux 9
    - **Requirements:**
        - Minimum iLO 6 Firmware Version = 1.10
        - Minimum supported OS Versions = Red Hat Enterprise Linux 9

Fixes

Fixed the following items:

- Tailing space issue of SNMP MIB of cpqSePCIeDiskModel data has been resolved

Enhancements

The following enhancements have been added to this release:

- Support for AMD Gen11 servers
- Support ZSTD-compress file type (ko.zst) in AHS of AMS drivers information for Linux kernel 5.x
- Support Gen4 speed (16000) show in SNMP MIB of cpqSePciCurrectSlotSpeed data for Linux kernel 5.x

---

Agentless Management Service (iLO5, iLO 6) for Red Hat Enterprise Linux 8 Server
Version: 3.1.0 **(Optional)**
Filename: amsd-3.1.0-1745.32.rhel8.x86_64.compsig; amsd-3.1.0-1745.32.rhel8.x86_64.rpm

Prerequisites

- **amsd only supported on HPE Gen10/Gen10 Plus/Gen11 Servers**
- **amsd provides information to the iLO 6 service providing SNMP support.**
- **Requirements:**
    - Minimum iLO 5 Firmware Version = 1.1
    - Minimum supported OS Versions = Red Hat Enterprise Linux 8
- **Requirements:**
    - Minimum iLO 6 Firmware Version = 1.10
    - Minimum supported OS Versions = Red Hat Enterprise Linux 8

Fixes

Fixed the following items:

- Tailing space issue of SNMP MIB of cpqSePCIeDiskModel data has been resolved

Enhancements

The following enhancements have been added to this release:

- Support for AMD Gen11 servers
- Support ZSTD-compress file type (ko.zst) in AHS of AMS drivers information for Linux kernel 5.x
- Support Gen4 speed (16000) show in SNMP MIB of cpqSePciCurrectSlotSpeed data for Linux kernel 5.x

---

Agentless Management Service (iLO5, iLO 6) for SUSE Linux Enterprise Server 15
Version: 3.1.0 **(Optional)**
Filename: amsd-3.1.0-1745.23.sles15.x86_64.compsig; amsd-3.1.0-1745.23.sles15.x86_64.rpm

Prerequisites

- **amsd only supported on HPE Gen10/Gen10 Plus/Gen11 Servers.**
- **amsd provides information to the iLO 6 service providing SNMP support.**
- **Requirements:**
  - Minimum iLO 5 Firmware Version = 1.1
  - Minimum supported OS Versions = SUSE Linux Enterprise Server 15
  - Minimum iLO 6 Firmware Version = 1.10
  - Minimum supported OS Versions = SUSE Linux Enterprise Server 15 SP4

Fixes

Fixed the following items:

- Tailing space issue of SNMP MIB of cpqSePCIeDiskModel data has been resolved

Enhancements

The following enhancements have been added to this release:

- Support for AMD Gen11 servers
- Support ZSTD-compress file type (ko.zst) in AHS of AMS drivers information for Linux kernel 5.x
- Support Gen4 speed (16000) show in SNMP MIB of cpqSePciCurrectSlotSpeed data for Linux kernel 5.x

---

HPE Agentless Management Bundle for ESXi on HPE Gen11 Servers
Version: 701.11.1.0 **(Recommended)**
Filename: amsdvComponent_701.11.1.0.27-1_20582115.zip

Enhancements

Agentless Management Service

- First release of Agentless Management Service for ESXi on HPE ProLiant Gen11 Servers.

HPE Fiber Channel and Storage Enablement Component for ESXi 7.0
Version: 3.9.0 **(Recommended)**
Filename: fc-enablement-component_700.3.9.0.4-1_20266032.zip

Enhancements

- Supports VMware ESXi 7.0 U2 and ESXi 7.0 U3

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

HPE Gen11 Agentless Management Service for Microsoft Windows x64
Version: 3.10.0.0 **(Optional)**

Filename: cp048902.compsig; cp048902.exe

Important Note!

About installation and enablement of SMA service:

- During AMS installation in interactive mode, there is pop up message to selectively install SMA.
  - If Yes is selected, SMA service will be installed and set to running state.
  - If No is selected, SMA service will be installed but the service is not enabled.
- During AMS installation in silent mode, SMA is installed but the service is not enabled.
- To enable SMA service at a later time, go to the following folder: %ProgramFiles%\OEM\AMS\Service\ (Typically c:\Program Files\OEM\AMS\Service) and execute "EnableSma.bat /f"
- IMPORTANT: The SNMP service community name and permission must also be setup. This is not done by "EnableSma.bat".
- To disable SMA after it has been enabled, go to the following folder: %ProgramFiles%\OEM\AMS\Service\ (Typically c:\Program Files\OEM\AMS\Service) and execute "DisableSma.bat /f"
- After installing Windows operating system, make sure all the latest Microsoft Updates are downloaded and installed (wuapp.exe can be launched to start the update process). If this is not done, a critical error may be reported in Windows Event Log, "The Agentless Management Service terminated unexpectedly.".

AMS Control Panel Applet:

- The AMS control panel applet UI is best displayed on the system when screen resolution is 1280 x 1024 pixels or higher and text size 100%.
- Test trap generated from AMS Control Panel Applet requires iLO6 firmware version 1.1 and newer.
- When in iLO6 high security mode (e.g. FIPS mode), MD5 authentication protocol will not be shown.

Prerequisites

The *Channel Interface Driver for Windows X64* must be installed prior to this component.

Microsoft SNMP Service must be enabled, if SMA (System Management Assistant) is enabled.

Fixes

- Fixed Windows will shutdown caused by bogus temperature.
- Fixed not detecting specific firmware installed in OS.
- Fixed missing SNMP data for drive location with P824i-p MR.
- Fixed Intel Icelake Xeon(Third Gen) driver fails to show in iLo software inventory.
- Fixed not available subsystem will show "Other" in MIB Health Status Array.
- Fixed AMS crash when the system enabled internal SD card slot.

Enhancements

- Add cluster environment support.
- Added MILLBURY fibre channel host adapter card 1P and 2P support.
- Supported Azure Stack HCI 22h2 type identifies.

HPE MegaRAID Storage Administrator for Linux 64-bit (HPE MRSA for Gen11 Controllers)
Version: 8.2.19.0 **(Recommended)**
Filename: MRStorageAdministrator-008.002.019.000-00.x86_64.compsig; MRStorageAdministrator-008.002.019.000-00.x86_64.rpm

Prerequisites

- From RHEL 8+ the Desktop ICON Launching property is disabled by default. Please use either yum or DNF to install gnome-tweak-tool and Enable the Desktop Shortcut feature to launch MRSA.
- The chkconfig package is not present in RHEL 9 by default. This package is required to auto start MRSA service on system boot. Please install chkconfig package before installing the MRSA.

Enhancements

Initial release.

HPE MegaRAID Storage Administrator for Windows 64-bit (HPE MRSA for Gen11 Servers)
Version: 8.2.19.0 **(Recommended)**
Filename: cp050677.exe; cp050677_part1.compsig; cp050677_part2.compsig

Enhancements

Initial Release.

HPE MegaRAID Storage Administrator StorCLI for Linux 64-bit (for Gen11 Controllers)
Version: 007.2207.0000.0000 **(Optional)**
Filename: storcli-007.2207.0000.0000-1.noarch.compsig; storcli-007.2207.0000.0000-1.noarch.rpm

Enhancements

Initial Release.

HPE MegaRAID Storage Administrator StorCLI for VMware 7.0 (for Gen11 Controllers)
Version: 007.2207.0000.0000 (B) **(Recommended)**
Filename: BCM-vmware-storcli64_007.2207.0000.0000-01_20701325.zip

Enhancements

Gen11 PR2 Usage

HPE MegaRAID Storage Administrator StorCLI for Windows 64-bit (for Gen11 Controllers)
Version: 7.22.7.0 **(Recommended)**
Filename: cp050679.compsig; cp050679.exe

Enhancements

Initial Release.

Smart Storage Administrator (SSA) CLI for Linux 64-bit for Gen11 Servers
Version: 6.10.14.0 (D) **(Recommended)**
Filename: ssacli-6.10-14.0.x86_64.compsig; ssacli-6.10-14.0.x86_64.rpm; ssacli-6.10-14.0.x86_64.txt

Enhancements

Initial release for Gen11 servers

Smart Storage Administrator (SSA) CLI for VMware 7.0
Version: 6.10.21.0 **(Recommended)**
Filename: ssacli2-component_6.10.21.0-7.0.0_20531641.zip

Enhancements

Initial Build for Vmware

Smart Storage Administrator (SSA) CLI for VMware 8.0
Version: 6.10.21.0 **(Recommended)**
Filename: ssacli2-component_6.10.21.0-8.0.0_20531647.zip

Enhancements

Initial build and for VMware custom image usage.

Smart Storage Administrator (SSA) CLI for Windows 64-bit for Gen11 Servers
Version: 6.10.14.0 (C) **(Recommended)**
Filename: cp054899.compsig; cp054899.exe

Enhancements

Initial release for Gen11 servers

Smart Storage Administrator (SSA) for Linux 64-bit for Gen11 Servers
Version: 6.10.14.0 (D) **(Recommended)**
Filename: ssa-6.10-14.0.x86_64.compsig; ssa-6.10-14.0.x86_64.rpm; ssa-6.10-14.0.x86_64.txt

Prerequisites

The Smart Storage Administrator for Linux requires the System Management Homepage software to be installed on the server. If the System Management Homepage software is not already installed on your server, please download it from HPE.com and install it before installing the Smart Storage Administrator for Linux.

IMPORTANT UPDATE: SSA (GUI) for Linux can now be run without requiring the System Management Homepage. SSA now supports a Local Application Mode for Linux. The System Management Homepage is still supported, but no longer required to run the SSA GUI.

To invoke, enter the following at the command prompt:

ssa -local

The command will start SSA in a new Firefox browser window. When the browser window is closed, SSA will automatically stop. This is only valid for the loopback interface, and not visible to external network connections.

Enhancements

Initial release for Gen11 servers.

Smart Storage Administrator (SSA) for Windows 64-bit for Gen11 Servers
Version: 6.10.14.0 (C) **(Recommended)**
Filename: cp054898.compsig; cp054898.exe

Enhancements

Initial release for Gen11 servers

Smart Storage Administrator Diagnostic Utility (SSADU) CLI for Linux 64-bit for Gen11 Servers
Version: 6.10.14.0 (D) **(Recommended)**
Filename: ssaducli-6.10-14.0.x86_64.compsig; ssaducli-6.10-14.0.x86_64.rpm; ssaducli-6.10-14.0.x86_64.txt

Enhancements

Initial release for Gen11 servers.

Smart Storage Administrator Diagnostic Utility (SSADU) CLI for Windows 64-bit for Gen11 servers
Version: 6.10.14.0 (C) **(Recommended)**
Filename: cp054903.compsig; cp054903.exe

Important Note!

This stand alone version of the Smart Storage Administrator's Diagnostic feature is available only in CLI form. For the GUI version of Diagnostic reports, please use Smart Storage Administrator (SSA).

Enhancements

Initial release for Gen11 servers