VMware Deliverable Release Notes

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

[HPE Integrity Superdome X](#)
[HPE Superdome Flex](#)

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

[VMware OS Support Tool for HPE Synergy](#)

Information on HPE Synergy Software Releases is available at:

[HPE Synergy Software Releases - Overview](#)

Gen10 SPP 2023.09.00.00 Release Notes for VMware ESXi 8.0 U1

BIOS (Login Required) - System ROM   **[Top](#)**

ROM Flash Firmware Package - HPE Apollo 4200 Gen10/HPE ProLiant XL420 Gen10 (U39) Servers
Version: 2.90_07-20-2023 **(Recommended)**
Filename: U39_2.90_07_20_2023.fwpkg

Important Note!

Important Notes:

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2023.3 guidance.

Deliverable Name:

HPE Apollo 4200 Gen10/ProLiant XL420 Gen10 System ROM - U39

Release Version:

2.90_07-20-2023

Last Recommended or Critical Revision:

2.90_07-20-2023

Previous Revision:

2.80_04-20-2023

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

This revision of the System ROM includes the latest revision of the Intel IPU 2023.3 BIOS update which provides Intel's mitigation for BIOS advisory and security vulnerabilities documented as CVE-2022-43505 and CVE-2022-40982. This security vulnerability is documented in the CVE report site. This issue is not unique to HPE servers.

This revision of the System ROM includes the revision of the OpenSSL library 1.0.2zh update which provides mitigation for security vulnerabilities documented as CVE-2023-2650.

Addressed an issue where iLO embedded device health info would display blank content under RBSU when the Language was set to Japanese or Chinese.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2023.3 guidance.

Firmware Dependencies:

None

Problems Fixed:

This revision of the System ROM includes the latest revision of the Intel IPU 2023.3 BIOS update which provides Intel's mitigation for BIOS advisory and security vulnerabilities documented as CVE-2022-43505 and CVE-2022-40982. This security vulnerability is documented in the CVE report site. This issue is not unique to HPE servers.

This revision of the System ROM includes the revision of the OpenSSL library 1.0.2zh update which provides mitigation for security vulnerabilities documented as CVE-2023-2650.

Addressed an issue where iLO embedded device health info would display blank content under RBSU when the Language was set to Japanese or Chinese.

Known Issues:

None

ROM Flash Firmware Package - HPE Apollo 4510 Gen10/HPE ProLiant XL450 Gen10 (U40) Servers
Version: 2.90_07-20-2023 **(Recommended)**
Filename: U40_2.90_07_20_2023.fwpkg

Important Note!

Important Notes:

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2023.3 guidance.

Deliverable Name:

HPE Apollo 4510 Gen10/HPE ProLiant XL450 Gen10 System ROM - U40

Release Version:

2.90_07-20-2023

Last Recommended or Critical Revision:

2.90_07-20-2023

Previous Revision:

2.80_04-20-2023

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

This revision of the System ROM includes the latest revision of the Intel IPU 2023.3 BIOS update which provides Intel's mitigation for BIOS advisory and security vulnerabilities documented as CVE-2022-43505 and CVE-2022-40982. This security vulnerability is documented in the CVE report site. This issue is not unique to HPE servers.

This revision of the System ROM includes the revision of the OpenSSL library 1.0.2zh update which provides mitigation for security vulnerabilities documented as CVE-2023-2650.

Addressed an issue where iLO embedded device health info would display blank content under RBSU when the Language was set to Japanese or Chinese.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2023.3 guidance.

Firmware Dependencies:

None

Problems Fixed:

This revision of the System ROM includes the latest revision of the Intel IPU 2023.3 BIOS update which provides Intel's mitigation for BIOS advisory and security vulnerabilities documented as CVE-2022-43505 and CVE-2022-40982. This security vulnerability is documented in the CVE report site. This issue is not unique to HPE servers.

This revision of the System ROM includes the revision of the OpenSSL library 1.0.2zh update which provides mitigation for security vulnerabilities documented as CVE-2023-2650.

Addressed an issue where iLO embedded device health info would display blank content under RBSU when the Language was set to Japanese or Chinese.

Known Issues:

None

ROM Flash Firmware Package - HPE ProLiant DL160 Gen10/DL180 Gen10 (U31) Servers
Version: 2.90_07-20-2023 **(Recommended)**
Filename: U31_2.90_07_20_2023.fwpkg

<u>**Important Note!**</u>

Important Notes:

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2023.3 guidance.

Deliverable Name:

HPE ProLiant DL160 Gen10/DL180 Gen10 System ROM - U31

Release Version:

2.90_07-20-2023

Last Recommended or Critical Revision:

2.90_07-20-2023

Previous Revision:

2.80_04-20-2023

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

This revision of the System ROM includes the latest revision of the Intel IPU 2023.3 BIOS update which provides Intel's mitigation for BIOS advisory and security vulnerabilities documented as CVE-2022-43505 and CVE-2022-40982. This security vulnerability is documented in the CVE report site. This issue is not unique to HPE servers.

This revision of the System ROM includes the revision of the OpenSSL library 1.0.2zh update which provides mitigation for security vulnerabilities documented as CVE-2023-2650.

Addressed an issue where iLO embedded device health info would display blank content under RBSU when the Language was set to Japanese or Chinese.

Known Issues:

None

<u>**Fixes**</u>

Important Notes:

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2023.3 guidance.

Firmware Dependencies:

None

Problems Fixed:

This revision of the System ROM includes the latest revision of the Intel IPU 2023.3 BIOS update which provides Intel's mitigation for BIOS advisory and security vulnerabilities documented as CVE-2022-43505 and CVE-2022-40982. This security vulnerability is documented in the CVE report site. This issue is not unique to HPE servers.

This revision of the System ROM includes the revision of the OpenSSL library 1.0.2zh update which provides mitigation for security vulnerabilities documented as CVE-2023-2650.

Addressed an issue where iLO embedded device health info would display blank content under RBSU when the Language was set to Japanese or Chinese.

Known Issues:

None

ROM Flash Firmware Package - HPE ProLiant DL20 Gen10 (U43) Servers
Version: 2.80_07-20-2023 **(Recommended)**
Filename: U43_2.80_07_20_2023.fwpkg

Important Note!

Important Notes:

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2023.3 guidance.

Deliverable Name:

HPE DL20 Gen10 System ROM - U43

Release Version:

2.80_07-20-2023

Last Recommended or Critical Revision:

2.80_07-20-2023

Previous Revision:

2.72_04-20-2023

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

This revision of the System ROM includes the latest revision of the Intel IPU 2023.3 BIOS update which provides Intel's mitigation for BIOS advisory and security vulnerabilities documented as CVE-2022-44611 and CVE-2022-40982. This security vulnerability is documented in the CVE report site. This issue is not unique to HPE servers.

This revision of the System ROM includes the revision of the OpenSSL library 1.0.2zh update which provides mitigation for security vulnerabilities documented as CVE-2023-2650.

Addressed an issue where iLO embedded device health info would display blank content under RBSU when the Language was set to Japanese or Chinese.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2023.3 guidance.

Firmware Dependencies:

None

Problems Fixed:

This revision of the System ROM includes the latest revision of the Intel IPU 2023.3 BIOS update which provides Intel's mitigation for BIOS advisory and security vulnerabilities documented as CVE-2022-44611 and CVE-2022-40982. This security vulnerability is

documented in the CVE report site. This issue is not unique to HPE servers.

This revision of the System ROM includes the revision of the OpenSSL library 1.0.2zh update which provides mitigation for security vulnerabilities documented as CVE-2023-2650.

Addressed an issue where iLO embedded device health info would display blank content under RBSU when the Language was set to Japanese or Chinese.

Known Issues:

None

ROM Flash Firmware Package - HPE Proliant DL20 Gen10 Plus Servers
Version: 1.80_07-20-2023 **(Recommended)**
Filename: U60_1.80_07_20_2023.fwpkg

Important Note!

Important Notes:

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2023.3 guidance.

Deliverable Name:

HPE DL20 Gen10 Plus System ROM - U60

Release Version:

1.80_07-20-2023

Last Recommended or Critical Revision:

1.80_07-20-2023

Previous Revision:

1.72_04-20-2023

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

This revision of the System ROM includes the latest revision of the Intel IPU 2023.3 BIOS update which provides Intel's mitigation for BIOS advisory and security vulnerabilities documented as CVE-2022-44611 and CVE-2022-40982. This security vulnerability is documented in the CVE report site. This issue is not unique to HPE servers.

This revision of the System ROM includes the revision of the OpenSSL library 1.1.1u update which provides mitigation for security vulnerabilities documented as CVE-2023-0286, CVE-2022-4304 and CVE-2023-2650.

Address an issue where an abnormal power-on-password dialog would pop up even though user did not set a password.

Address the issue where Secure Boot would not be enabled when loading manufacturing default from iLO web.

Address an issue where RSOD would occur when entering "System Information" from RBSU under legacy mode.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2023.3 guidance.

Firmware Dependencies:

None

Problems Fixed:

This revision of the System ROM includes the latest revision of the Intel IPU 2023.3 BIOS update which provides Intel's mitigation for BIOS advisory and security vulnerabilities documented as CVE-2022-44611 and CVE-2022-40982. This security vulnerability is

documented in the CVE report site. This issue is not unique to HPE servers.

This revision of the System ROM includes the revision of the OpenSSL library 1.1.1u update which provides mitigation for security vulnerabilities documented as CVE-2023-0286, CVE-2022-4304 and CVE-2023-2650.

Address an issue where an abnormal power-on-password dialog would pop up even though user did not set a password.

Address the issue where Secure Boot would not be enabled when loading manufacturing default from iLO web.

Address an issue where RSOD would occur when entering "System Information" from RBSU under legacy mode.

Known Issues:

None

ROM Flash Firmware Package - HPE ProLiant DL325 Gen10 (A41) Servers
Version: 2.80_07-31-2023 **(Recommended)**
Filename: A41_2.80_07_31_2023.fwpkg

Important Note!

Important Notes:

This revision of the System ROM includes AMD reference code RomePI 1.0.0.F for AMD 2nd Generation EPYC processors. This revision of the System ROM includes AMD reference code NaplesPI 1.0.0.K for AMD 1st Generation EPYC processors.

Deliverable Name:

HPE ProLiant DL325 Gen10 System ROM - A41

Release Version:

2.80_07-31-2023

Last Recommended or Critical Revision:

2.80_07-31-2023

Previous Revision:

2.72_04-20-2023

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

This revision provides AMD's mitigation for security vulnerabilities for CVE-2022-23829 for AMD 1st Generation EPYC processors, and CVE-2022-23829 and CVE-2023-20593 for AMD 2nd Generation EPYC processor. This security vulnerability is documented in the CVE report site. This issue is not unique to HPE servers.

This revision of the System ROM includes the revision of the OpenSSL library 1.0.2zh update which provides mitigation for security vulnerabilities documented as CVE-2023-2650.

Addressed an issue where iLO embedded device health info would display blank content under RBSU when the Language was set to Japanese or Chinese.

Known Issues:

None

Fixes

Important Notes:

This revision of the System ROM includes AMD reference code RomePI 1.0.0.F for AMD 2nd Generation EPYC processors. This revision of the System ROM includes AMD reference code NaplesPI 1.0.0.K for AMD 1st Generation EPYC processors.

Firmware Dependencies:

None

Problems Fixed:

This revision provides AMD's mitigation for security vulnerabilities for CVE-2022-23829 for AMD 1st Generation EPYC processors, and CVE-2022-23829 and CVE-2023-20593 for AMD 2nd Generation EPYC processor. This security vulnerability is documented in the CVE report site. This issue is not unique to HPE servers.

This revision of the System ROM includes the revision of the OpenSSL library 1.0.2zh update which provides mitigation for security vulnerabilities documented as CVE-2023-2650.

Addressed an issue where iLO embedded device health info would display blank content under RBSU when the Language was set to Japanese or Chinese.

Known Issues:

None

ROM Flash Firmware Package - HPE ProLiant DL360 Gen10 (U32) Servers
Version: 2.90_07-20-2023 **(Recommended)**
Filename: U32_2.90_07_20_2023.fwpkg

Important Note!

Important Notes:

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2023.3 guidance.

Deliverable Name:

HPE ProLiant DL360 Gen10 System ROM - U32

Release Version:

2.90_07-20-2023

Last Recommended or Critical Revision:

2.90_07-20-2023

Previous Revision:

2.80_04-20-2023

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

This revision of the System ROM includes the latest revision of the Intel IPU 2023.3 BIOS update which provides Intel's mitigation for BIOS advisory and security vulnerabilities documented as CVE-2022-43505 and CVE-2022-40982. This security vulnerability is documented in the CVE report site. This issue is not unique to HPE servers.

This revision of the System ROM includes the revision of the OpenSSL library 1.0.2zh update which provides mitigation for security vulnerabilities documented as CVE-2023-2650.

Addressed an issue where iLO embedded device health info would display blank content under RBSU when the Language was set to Japanese or Chinese.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2023.3 guidance.

Firmware Dependencies:

None

Problems Fixed:

This revision of the System ROM includes the latest revision of the Intel IPU 2023.3 BIOS update which provides Intel's mitigation for BIOS advisory and security vulnerabilities documented as CVE-2022-43505 and CVE-2022-40982. This security vulnerability is documented in the CVE report site. This issue is not unique to HPE servers.

This revision of the System ROM includes the revision of the OpenSSL library 1.0.2zh update which provides mitigation for security vulnerabilities documented as CVE-2023-2650.

Addressed an issue where iLO embedded device health info would display blank content under RBSU when the Language was set to Japanese or Chinese.

Known Issues:

None

ROM Flash Firmware Package - HPE ProLiant DL380 Gen10 (U30) Servers
Version: 2.90_07-20-2023 **(Recommended)**
Filename: U30_2.90_07_20_2023.fwpkg

Important Note!

Important Notes:

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2023.3 guidance.

Deliverable Name:

HPE ProLiant DL380 Gen10 System ROM - U30

Release Version:

2.90_07-20-2023

Last Recommended or Critical Revision:

2.90_07-20-2023

Previous Revision:

2.80_04-20-2023

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

This revision of the System ROM includes the latest revision of the Intel IPU 2023.3 BIOS update which provides Intel's mitigation for BIOS advisory and security vulnerabilities documented as CVE-2022-43505 and CVE-2022-40982. This security vulnerability is documented in the CVE report site. This issue is not unique to HPE servers.

This revision of the System ROM includes the revision of the OpenSSL library 1.0.2zh update which provides mitigation for security vulnerabilities documented as CVE-2023-2650.

Addressed an issue where iLO embedded device health info would display blank content under RBSU when the Language was set to Japanese or Chinese.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2023.3 guidance.

Firmware Dependencies:

None

Problems Fixed:

This revision of the System ROM includes the latest revision of the Intel IPU 2023.3 BIOS update which provides Intel's mitigation for BIOS advisory and security vulnerabilities documented as CVE-2022-43505 and CVE-2022-40982. This security vulnerability is documented in the CVE report site. This issue is not unique to HPE servers.

This revision of the System ROM includes the revision of the OpenSSL library 1.0.2zh update which provides mitigation for security vulnerabilities documented as CVE-2023-2650.

Addressed an issue where iLO embedded device health info would display blank content under RBSU when the Language was set to Japanese or Chinese.

Known Issues:

None

ROM Flash Firmware Package - HPE ProLiant DL385 Gen10 (A40) Servers
Version: 2.80_07-31-2023 **(Recommended)**
Filename: A40_2.80_07_31_2023.fwpkg

Important Note!

Important Notes:

This revision of the System ROM includes AMD reference code RomePI 1.0.0.F for AMD 2nd Generation EPYC processors. This revision of the System ROM includes AMD reference code NaplesPI 1.0.0.K for AMD 1st Generation EPYC processors.

Deliverable Name:

HPE DL385Gen10 System ROM - A40

Release Version:

2.80_07-31-2023

Last Recommended or Critical Revision:

2.80_07-31-2023

Previous Revision:

2.72_04-20-2023

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

This revision provides AMD's mitigation for security vulnerabilities for CVE-2022-23829 for AMD 1st Generation EPYC processors, and CVE-2022-23829 and CVE-2023-20593 for AMD 2nd Generation EPYC processor. This security vulnerability is documented in the CVE report site. This issue is not unique to HPE servers.

This revision of the System ROM includes the revision of the OpenSSL library 1.0.2zh update which provides mitigation for security vulnerabilities documented as CVE-2023-2650.

Addressed an issue where iLO embedded device health info would display blank content under RBSU when the Language was set to Japanese or Chinese.

Known Issues:

None

Fixes

Important Notes:

This revision of the System ROM includes AMD reference code RomePI 1.0.0.F for AMD 2nd Generation EPYC processors. This revision of the System ROM includes AMD reference code NaplesPI 1.0.0.K for AMD 1st Generation EPYC processors.

Firmware Dependencies:

None

Problems Fixed:

This revision provides AMD's mitigation for security vulnerabilities for CVE-2022-23829 for AMD 1st Generation EPYC processors, and CVE-2022-23829 and CVE-2023-20593 for AMD 2nd Generation EPYC processor. This security vulnerability is documented in the CVE report site. This issue is not unique to HPE servers.

This revision of the System ROM includes the revision of the OpenSSL library 1.0.2zh update which provides mitigation for security vulnerabilities documented as CVE-2023-2650.

Addressed an issue where iLO embedded device health info would display blank content under RBSU when the Language was set to

Japanese or Chinese.

Known Issues:

None

ROM Flash Firmware Package - HPE ProLiant DL560 Gen10/DL580 Gen10 (U34) Servers
Version: 2.90_07-20-2023 **(Recommended)**
Filename: U34_2.90_07_20_2023.fwpkg

Important Note!

Important Notes:

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2023.3 guidance.

Deliverable Name:

HPE ProLiant DL560 Gen10/DL580 Gen10 System ROM - U34

Release Version:

2.90_07-20-2023

Last Recommended or Critical Revision:

2.90_07-20-2023

Previous Revision:

2.80_04-20-2023

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

This revision of the System ROM includes the latest revision of the Intel IPU 2023.3 BIOS update which provides Intel's mitigation for BIOS advisory and security vulnerabilities documented as CVE-2022-43505 and CVE-2022-40982. This security vulnerability is documented in the CVE report site. This issue is not unique to HPE servers.

This revision of the System ROM includes the revision of the OpenSSL library 1.0.2zh update which provides mitigation for security vulnerabilities documented as CVE-2023-2650.

Addressed an issue where iLO embedded device health info would display blank content under RBSU when the Language was set to Japanese or Chinese.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2023.3 guidance.

Firmware Dependencies:

None

Problems Fixed:

This revision of the System ROM includes the latest revision of the Intel IPU 2023.3 BIOS update which provides Intel's mitigation for BIOS advisory and security vulnerabilities documented as CVE-2022-43505 and CVE-2022-40982. This security vulnerability is documented in the CVE report site. This issue is not unique to HPE servers.

This revision of the System ROM includes the revision of the OpenSSL library 1.0.2zh update which provides mitigation for security vulnerabilities documented as CVE-2023-2650.

Addressed an issue where iLO embedded device health info would display blank content under RBSU when the Language was set to Japanese or Chinese.

Known Issues:

None

ROM Flash Firmware Package - HPE ProLiant MicroServer Gen10 Plus v2 (U64) Servers
Version: 1.80_07-20-2023 **(Recommended)**
Filename: U64_1.80_07_20_2023.fwpkg

Important Note!

Important Notes:

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2023.3 guidance.

Deliverable Name:

HPE ProLiant MicroServer Gen10 Plus v2 System ROM - U64

Release Version:

1.80_07-20-2023

Last Recommended or Critical Revision:

1.80_07-20-2023

Previous Revision:

1.72_04-20-2023

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

This revision of the System ROM includes the latest revision of the Intel IPU 2023.3 BIOS update which provides Intel's mitigation for BIOS advisory and security vulnerabilities documented as CVE-2022-44611 and CVE-2022-40982. This security vulnerability is documented in the CVE report site. This issue is not unique to HPE servers.

This revision of the System ROM includes the revision of the OpenSSL library 1.1.1u update which provides mitigation for security vulnerabilities documented as CVE-2023-0286, CVE-2022-4304 and CVE-2023-2650.

Address an issue where an abnormal power-on-password dialog would pop up even though user did not set a password.

Address the issue where Secure Boot would not be enabled when loading manufacturing default from iLO web.

Address an issue where RSOD would occur when entering System Information from RBSU under legacy mode.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2023.3 guidance.

Firmware Dependencies:

None

Problems Fixed:

This revision of the System ROM includes the latest revision of the Intel IPU 2023.3 BIOS update which provides Intel's mitigation for BIOS advisory and security vulnerabilities documented as CVE-2022-44611 and CVE-2022-40982. This security vulnerability is documented in the CVE report site. This issue is not unique to HPE servers.

This revision of the System ROM includes the revision of the OpenSSL library 1.1.1u update which provides mitigation for security vulnerabilities documented as CVE-2023-0286, CVE-2022-4304 and CVE-2023-2650.

Address an issue where an abnormal power-on-password dialog would pop up even though user did not set a password.

Address the issue where Secure Boot would not be enabled when loading manufacturing default from iLO web.

Address an issue where RSOD would occur when entering System Information from RBSU under legacy mode.

Known Issues:

None

ROM Flash Firmware Package - HPE ProLiant ML110 Gen10 (U33) Servers
Version: 2.90_07-20-2023 **(Recommended)**
Filename: U33_2.90_07_20_2023.fwpkg

Important Note!

Important Notes:

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2023.3 guidance.

Deliverable Name:

HPE ProLiant ML110 Gen10 System ROM - U33

Release Version:

2.90_07-20-2023

Last Recommended or Critical Revision:

2.90_07-20-2023

Previous Revision:

2.80_04-20-2023

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

This revision of the System ROM includes the latest revision of the Intel IPU 2023.3 BIOS update which provides Intel's mitigation for BIOS advisory and security vulnerabilities documented as CVE-2022-43505 and CVE-2022-40982. This security vulnerability is documented in the CVE report site. This issue is not unique to HPE servers.

This revision of the System ROM includes the revision of the OpenSSL library 1.0.2zh update which provides mitigation for security vulnerabilities documented as CVE-2023-2650.

Addressed an issue where iLO embedded device health info would display blank content under RBSU when the Language was set to Japanese or Chinese.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2023.3 guidance.

Firmware Dependencies:

None

Problems Fixed:

This revision of the System ROM includes the latest revision of the Intel IPU 2023.3 BIOS update which provides Intel's mitigation for BIOS advisory and security vulnerabilities documented as CVE-2022-43505 and CVE-2022-40982. This security vulnerability is documented in the CVE report site. This issue is not unique to HPE servers.

This revision of the System ROM includes the revision of the OpenSSL library 1.0.2zh update which provides mitigation for security vulnerabilities documented as CVE-2023-2650.

Addressed an issue where iLO embedded device health info would display blank content under RBSU when the Language was set to Japanese or Chinese.

Known Issues:

None

ROM Flash Firmware Package - HPE ProLiant ML30 Gen10 (U44) Servers
Version: 2.80_07-20-2023 **(Recommended)**
Filename: U44_2.80_07_20_2023.fwpkg

Important Note!

Important Notes:

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2023.3 guidance.

Deliverable Name:

HPE ProLiant ML30 Gen10 System ROM - U44

Release Version:

2.80_07-20-2023

Last Recommended or Critical Revision:

2.80_07-20-2023

Previous Revision:

2.72_04-20-2023

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

This revision of the System ROM includes the latest revision of the Intel IPU 2023.3 BIOS update which provides Intel's mitigation for BIOS advisory and security vulnerabilities documented as CVE-2022-44611 and CVE-2022-40982. This security vulnerability is documented in the CVE report site. This issue is not unique to HPE servers.

This revision of the System ROM includes the revision of the OpenSSL library 1.0.2zh update which provides mitigation for security vulnerabilities documented as CVE-2023-2650.

Addressed an issue where iLO embedded device health info would display blank content under RBSU when the Language was set to Japanese or Chinese.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2023.3 guidance.

Firmware Dependencies:

None

Problems Fixed:

This revision of the System ROM includes the latest revision of the Intel IPU 2023.3 BIOS update which provides Intel's mitigation for BIOS advisory and security vulnerabilities documented as CVE-2022-44611 and CVE-2022-40982. This security vulnerability is documented in the CVE report site. This issue is not unique to HPE servers.

This revision of the System ROM includes the revision of the OpenSSL library 1.0.2zh update which provides mitigation for security vulnerabilities documented as CVE-2023-2650.

Addressed an issue where iLO embedded device health info would display blank content under RBSU when the Language was set to Japanese or Chinese.

Known Issues:

None

ROM Flash Firmware Package - HPE ProLiant ML30 Gen10 Plus Servers
Version: 1.80_07-20-2023 **(Recommended)**
Filename: U61_1.80_07_20_2023.fwpkg

<u>Important Note!</u>

Important Notes:

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2023.3 guidance.

Deliverable Name:

HPE ProLiant ML30 Gen10 Plus System ROM - U61

Release Version:

1.80_07-20-2023

Last Recommended or Critical Revision:

1.80_07-20-2023

Previous Revision:

1.72_04-20-2023

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

This revision of the System ROM includes the latest revision of the Intel IPU 2023.3 BIOS update which provides Intel's mitigation for BIOS advisory and security vulnerabilities documented as CVE-2022-44611 and CVE-2022-40982. This security vulnerability is documented in the CVE report site. This issue is not unique to HPE servers.

This revision of the System ROM includes the revision of the OpenSSL library 1.1.1u update which provides mitigation for security vulnerabilities documented as CVE-2023-0286, CVE-2022-4304 and CVE-2023-2650.

Address an issue where an abnormal power-on-password dialog would pop up even though user did not set a password.

Address the issue where Secure Boot would not be enabled when loading manufacturing default from iLO web.

Address an issue where RSOD would occur when entering System Information from RBSU under legacy mode.

Known Issues:

None

<u>Fixes</u>

Important Notes:

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2023.3 guidance.

Firmware Dependencies:

None

Problems Fixed:

This revision of the System ROM includes the latest revision of the Intel IPU 2023.3 BIOS update which provides Intel's mitigation for BIOS advisory and security vulnerabilities documented as CVE-2022-44611 and CVE-2022-40982. This security vulnerability is documented in the CVE report site. This issue is not unique to HPE servers.

This revision of the System ROM includes the revision of the OpenSSL library 1.1.1u update which provides mitigation for security vulnerabilities documented as CVE-2023-0286, CVE-2022-4304 and CVE-2023-2650.

Address an issue where an abnormal power-on-password dialog would pop up even though user did not set a password.

Address the issue where Secure Boot would not be enabled when loading manufacturing default from iLO web.

Address an issue where RSOD would occur when entering System Information from RBSU under legacy mode.

Known Issues:

None

ROM Flash Firmware Package - HPE ProLiant ML350 Gen10 (U41) Servers
Version: 2.90_07-20-2023 **(Recommended)**
Filename: U41_2.90_07_20_2023.fwpkg

Important Note!

Important Notes:

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2023.3 guidance.

Deliverable Name:

HPE ProLiant ML350 Gen10 System ROM - U41

Release Version:

2.90_07-20-2023

Last Recommended or Critical Revision:

2.90_07-20-2023

Previous Revision:

2.80_04-20-2023

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

This revision of the System ROM includes the latest revision of the Intel IPU 2023.3 BIOS update which provides Intel's mitigation for BIOS advisory and security vulnerabilities documented as CVE-2022-43505 and CVE-2022-40982. This security vulnerability is documented in the CVE report site. This issue is not unique to HPE servers.

This revision of the System ROM includes the revision of the OpenSSL library 1.0.2zh update which provides mitigation for security vulnerabilities documented as CVE-2023-2650.

Addressed an issue where iLO embedded device health info would display blank content under RBSU when the Language was set to Japanese or Chinese.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2023.3 guidance.

Firmware Dependencies:

None

Problems Fixed:

This revision of the System ROM includes the latest revision of the Intel IPU 2023.3 BIOS update which provides Intel's mitigation for BIOS advisory and security vulnerabilities documented as CVE-2022-43505 and CVE-2022-40982. This security vulnerability is documented in the CVE report site. This issue is not unique to HPE servers.

This revision of the System ROM includes the revision of the OpenSSL library 1.0.2zh update which provides mitigation for security vulnerabilities documented as CVE-2023-2650.

Addressed an issue where iLO embedded device health info would display blank content under RBSU when the Language was set to Japanese or Chinese.

Known Issues:

None

ROM Flash Universal Firmware Package - HPE ProLiant DL325/DL325 v2/DL345 Gen10 Plus (A43) Servers

Version: 2.80_07-31-2023 **(Recommended)**
Filename: A43_2.80_07_31_2023.fwpkg

Important Note!

Important Notes:

This revision of the System ROM includes AMD reference code RomePI 1.0.0.F for AMD 2nd Generation EPYC processors. This revision of the System ROM includes AMD reference code MilanPI 1.0.0.B for AMD 3rd Generation EPYC processors.

Deliverable Name:

HPE ProLiant DL325/DL325 v2/DL345 Gen10 Plus System ROM - A43

Release Version:

2.80_07-31-2023

Last Recommended or Critical Revision:

2.80_07-31-2023

Previous Revision:

2.72_04-20-2023

Firmware Dependencies:

None

Enhancements/New Features:

Added new System Configuration (RBSU) configuration options that allow enabling L1 IO Drop Chain Enable to drop chain write support to avoid unexpected timeouts due to under certain conditions, some high-bandwidth PCIe devices could fail to complete the transaction.

In System Configuration (RBSU), the option is located under L1 IO Drop Chain Enable in Service Option when the system is with AMD 3rd Generation EPYC processors.

This setting has the following Redfish properties.

/redfish/v1/systems/1/bios/oem/hpe/service/settings/DropChainedWrite

Problems Fixed:

This revision provides AMD's mitigation for security vulnerabilities for CVE-2022-23829 and CVE-2023-20593 for AMD 2nd Generation EPYC processors, and CVE-2022-23829 and CVE-2023-20569 for AMD 3rd Generation EPYC processor. This security vulnerability is documented in the CVE report site. This issue is not unique to HPE servers.

This revision of the System ROM includes the revision of the OpenSSL library 1.1.1u update which provides mitigation for security vulnerabilities documented as CVE-2023-0286, CVE-2022-4304 and CVE-2023-2650.

Addressed an issue where Secure Boot would not be enabled when loading manufacturing default from iLO web.

Addressed an issue where RSOD would occur when entering System Information from RBSU under legacy mode.

Addressed an issue where Uncorrectable Machine Check Exception (UMCE) would occur due to unexpected completion timeout to cause system not responding. Added new System Configuration (RBSU) configuration options that allows enabling L1 IO Drop Chain Enable to drop chain write support to avoid unexpected timeouts due to under certain conditions, some high-bandwidth PCIe devices could fail to complete the transaction.

Known Issues:

None

Fixes

Important Notes:

This revision of the System ROM includes AMD reference code RomePI 1.0.0.F for AMD 2nd Generation EPYC processors. This revision of the System ROM includes AMD reference code MilanPI 1.0.0.B for AMD 3rd Generation EPYC processors.

Firmware Dependencies:

None

Problems Fixed:

This revision provides AMD's mitigation for security vulnerabilities for CVE-2022-23829 and CVE-2023-20593 for AMD 2nd Generation EPYC processors, and CVE-2022-23829 and CVE-2023-20569 for AMD 3rd Generation EPYC processor. This security vulnerability is documented in the CVE report site. This issue is not unique to HPE servers.

This revision of the System ROM includes the revision of the OpenSSL library 1.1.1u update which provides mitigation for security vulnerabilities documented as CVE-2023-0286, CVE-2022-4304 and CVE-2023-2650.

Addressed an issue where Secure Boot would not be enabled when loading manufacturing default from iLO web.

Addressed an issue where RSOD would occur when entering System Information from RBSU under legacy mode.

Addressed an issue where Uncorrectable Machine Check Exception (UMCE) would occur due to unexpected completion timeout to cause system not responding. Added new System Configuration (RBSU) configuration options that allows enabling L1 IO Drop Chain Enable to drop chain write support to avoid unexpected timeouts due to under certain conditions, some high-bandwidth PCIe devices could fail to complete the transaction.

Known Issues:

None

Enhancements

Added new System Configuration (RBSU) configuration options that allow enabling L1 IO Drop Chain Enable to drop chain write support to avoid unexpected timeouts due to under certain conditions, some high-bandwidth PCIe devices could fail to complete the transaction.

In System Configuration (RBSU), the option is located under L1 IO Drop Chain Enable in Service Option when the system is with AMD 3rd Generation EPYC processors.

This setting has the following Redfish properties.

/redfish/v1/systems/1/bios/oem/hpe/service/settings/DropChainedWrite

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ROM Flash Universal Firmware Package - HPE ProLiant DL360/DL380 Gen10 Plus (U46) Servers
Version: 1.80_07-05-2023 **(Recommended)**
Filename: U46_1.80_07_05_2023.fwpkg

Important Note!

Important Notes:

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2023.3 guidance.

Deliverable Name:

HPE ProLiant DL360/DL380 Gen10 Plus System ROM - U46

Release Version:

1.80_07-05-2023

Last Recommended or Critical Revision:

1.80_07-05-2023

Previous Revision:

1.76_04-20-2023

Firmware Dependencies:

None

Enhancements/New Features:

Disabled "Total Memory Encryption Multi-Tenant" option in RBSU if "Processor Physical Addressing" option was set to "Limited". This is for consistency with Intel's reference code behavior.

The path to the option:

Memory Options >Memory Encryption Options >Total Memory Encryption Multi-Tenant (TME-MT)

Added Chinese translation for "Intel(R) Speed Select Technology" in RBSU.

Problems Fixed:

This revision of the System ROM includes the latest revision of the Intel IPU 2023.3 BIOS update which provides Intel's mitigation for BIOS advisory and security vulnerabilities documented as CVE-2022-43505, CVE-2022-40982, CVE-2023-23908 and CVE-2022-41804. This security vulnerability is documented in the CVE report site. This issue is not unique to HPE servers.

Address an issue where an abnormal power-on-password dialog would pop up even though user did not set a password.

Address the issue where the RBSU "Storage Device Information" was empty when VROC is enabled.

This revision of the System ROM includes the revision of the OpenSSL library 1.1.1u update which provides mitigation for security vulnerabilities documented as CVE-2023-0286, CVE-2022-4304 and CVE-2023-2650.

Address the issue where the TPM status displayed in RBSU and iLO web page was not in sync.

Address the issue where Secure Boot would not be enabled when loading manufacturing default from iLO web.

Address an issue where RSOD would occur when entering "System Information" from RBSU under legacy mode.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2023.3 guidance.

Firmware Dependencies:

None

Problems Fixed:

This revision of the System ROM includes the latest revision of the Intel IPU 2023.3 BIOS update which provides Intel's mitigation for BIOS advisory and security vulnerabilities documented as CVE-2022-43505, CVE-2022-40982, CVE-2023-23908 and CVE-2022-41804. This security vulnerability is documented in the CVE report site. This issue is not unique to HPE servers.

Address an issue where an abnormal power-on-password dialog would pop up even though user did not set a password.

Address the issue where the RBSU "Storage Device Information" was empty when VROC is enabled.

This revision of the System ROM includes the revision of the OpenSSL library 1.1.1u update which provides mitigation for security vulnerabilities documented as CVE-2023-0286, CVE-2022-4304 and CVE-2023-2650.

Address the issue where the TPM status displayed in RBSU and iLO web page was not in sync.

Address the issue where Secure Boot would not be enabled when loading manufacturing default from iLO web.

Address an issue where RSOD would occur when entering "System Information" from RBSU under legacy mode.

Known Issues:

None

Enhancements

Disabled "Total Memory Encryption Multi-Tenant" option in RBSU if "Processor Physical Addressing" option was set to "Limited". This is for consistency with Intel's reference code behavior.

The path to the option:

Memory Options >Memory Encryption Options >Total Memory Encryption Multi-Tenant (TME-MT)

Added Chinese translation for "Intel(R) Speed Select Technology" in RBSU.

ROM Flash Universal Firmware Package - HPE ProLiant DL365/DL385/DL385 v2 Gen10 Plus (A42) Servers
Version: 2.80_07-31-2023 **(Recommended)**
Filename: A42_2.80_07_31_2023.fwpkg

Important Note!

Important Notes:

This revision of the System ROM includes AMD reference code RomePI 1.0.0.F for AMD 2nd Generation EPYC processors. This revision of the System ROM includes AMD reference code MilanPI 1.0.0.B for AMD 3rd Generation EPYC processors.

Deliverable Name:

HPE DL365 Gen10 Plus/DL385 Gen10 Plus/DL385 v2 Gen10 Plus System ROM - A42

Release Version:

2.80_07-31-2023

Last Recommended or Critical Revision:

2.80_07-31-2023

Previous Revision:

2.72_04-20-2023

Firmware Dependencies:

None

Enhancements/New Features:

Added new System Configuration (RBSU) configuration options that allow enabling L1 IO Drop Chain Enable to drop chain write support to avoid unexpected timeouts due to under certain conditions, some high-bandwidth PCIe devices could fail to complete the transaction.

In System Configuration (RBSU), the option is located under L1 IO Drop Chain Enable in Service Option when the system is with AMD 3rd Generation EPYC processors.

This setting has the following Redfish properties.

/redfish/v1/systems/1/bios/oem/hpe/service/settings/DropChainedWrite

Problems Fixed:

This revision provides AMD's mitigation for security vulnerabilities for CVE-2022-23829 and CVE-2023-20593 for AMD 2nd Generation EPYC processors, and CVE-2022-23829 and CVE-2023-20569 for AMD 3rd Generation EPYC processor. This security vulnerability is documented in the CVE report site. This issue is not unique to HPE servers.

This revision of the System ROM includes the revision of the OpenSSL library 1.1.1u update which provides mitigation for security vulnerabilities documented as CVE-2023-0286, CVE-2022-4304 and CVE-2023-2650.

Addressed an issue where Secure Boot would not be enabled when loading manufacturing default from iLO web.

Addressed an issue where RSOD would occur when entering "System Information" from RBSU under legacy mode.

Addressed an issue where Uncorrectable Machine Check Exception (UMCE) would occur due to unexpected completion timeout to cause system not responding. Added new System Configuration (RBSU) configuration options that allows enabling L1 IO Drop Chain Enable to drop chain write support to avoid unexpected timeouts due to under certain conditions, some high-bandwidth PCIe devices could fail to complete the transaction.

Known Issues:

None

Fixes

Important Notes:

This revision of the System ROM includes AMD reference code RomePI 1.0.0.F for AMD 2nd Generation EPYC processors. This revision of the System ROM includes AMD reference code MilanPI 1.0.0.B for AMD 3rd Generation EPYC processors.

Firmware Dependencies:

None

Problems Fixed:

This revision provides AMD's mitigation for security vulnerabilities for CVE-2022-23829 and CVE-2023-20593 for AMD 2nd Generation EPYC processors, and CVE-2022-23829 and CVE-2023-20569 for AMD 3rd Generation EPYC processor. This security vulnerability is documented in the CVE report site. This issue is not unique to HPE servers.

This revision of the System ROM includes the revision of the OpenSSL library 1.1.1u update which provides mitigation for security vulnerabilities documented as CVE-2023-0286, CVE-2022-4304 and CVE-2023-2650.

Addressed an issue where Secure Boot would not be enabled when loading manufacturing default from iLO web.

Addressed an issue where RSOD would occur when entering System Information from RBSU under legacy mode.

Addressed an issue where Uncorrectable Machine Check Exception (UMCE) would occur due to unexpected completion timeout to cause system not responding. Added new System Configuration (RBSU) configuration options that allows enabling L1 IO Drop Chain Enable to drop chain write support to avoid unexpected timeouts due to under certain conditions, some high-bandwidth PCIe devices could fail to complete the transaction.

Known Issues:

None

Enhancements

Added new System Configuration (RBSU) configuration options that allow enabling L1 IO Drop Chain Enable to drop chain write support to avoid unexpected timeouts due to under certain conditions, some high-bandwidth PCIe devices could fail to complete the transaction.

In System Configuration (RBSU), the option is located under L1 IO Drop Chain Enable in Service Option when the system is with AMD 3rd Generation EPYC processors.

This setting has the following Redfish properties.

/redfish/v1/systems/1/bios/oem/hpe/service/settings/DropChainedWrite

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Driver - Lights-Out Management **[Top](#)**

HPE iLO Native Driver for ESXi 7.0
Version: 10.8.1 **(Recommended)**
Filename: ilo-driver_700.10.8.1.6-1OEM.700.1.0.15843807_22315884.zip

Enhancements

- Added support for vSphere 8.0U2.

Driver - Network **[Top](#)**

HPE Broadcom NetXtreme-E Drivers for VMware vSphere 8.0
Version: 2023.09.00 **(Recommended)**
Filename: cp057075.compsig; cp057075.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,* 226.1.107000 or later, for use with this driver.

Fixes

- This product corrects an issue PSOD seen with iperf traffic, when rx-ring size less than 256 bytes.
- This product corrects an issue Packet drops in ENS mode for tunnel traffic due to checksum issues.
- This product corrects an issue VXLAN tunnel port configuration failure during driver reload
- This product corrects an issue BFD (Bidirectional Forwarding Detection) control failures in NSX environment.
- This product corrects an issue ENS driver invokes driver APIs with spinlock, causing system crash.
- This product corrects an issue No VLAN strip issue, when VSAN configs is invoking VLAN stripping enable followed by disable before the driver sends first time config to firmware.

Enhancements

This product enhances driver logging as more generic and appropriate.

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 Intel i40en Driver for VMware vSphere 8.0

Version: 2023.09.00 **(Recommended)**
Filename: cp056802.compsig; cp056802.zip

Important Note!

> **This product contains driver version 2.4.2.0. This product is carrying 7.0u3 driver forward to 8.0. For VMWare OS team usage only. Will not be published.**
>
> 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 3.21.0 or later, for use with this driver.

Enhancements

> **This product is carrying 7.0u3 driver forward to 8.0.**

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

HPE Intel igbn Driver for VMware vSphere 8.0
Version: 2023.09.00 **(Recommended)**
Filename: cp056804.compsig; cp056804.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 3.21.0 or later, for use with this driver.

Fixes

> This product fix an issue that TCP traffic on VMs might be interrupted if PF undergoes a reset.

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 ixgben Driver for VMware vSphere 8.0
Version: 2023.09.00 **(Recommended)**
Filename: cp056805.compsig; cp056805.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 3.21.0 or later, for use with this driver.

Fixes

This product fix an issue that TCP traffic on VMs might be interrupted if PF undergoes a reset.

Enhancements

This product updated the copyright information and compatibility with firmware

Supported Devices and Features

These drivers support the following network adapters:

- HPE Ethernet 10Gb 2-port 560SFP+ Adapter
- HPE Ethernet 10Gb 2-port 560FLR-SFP+ Adapter
- HPE Ethernet 10Gb 2-port 561T Adapter
- HPE Ethernet 10Gb 2-port 561FLR-T Adapter
- HPE Ethernet 10Gb 2-port 562T Adapter
- HPE Ethernet 10Gb 2-port 562FLR-T Adapter

HPE QLogic FastLinQ 10/25/50 GbE Multifunction Driver for VMware vSphere 8.0
Version: 2023.09.00 **(Recommended)**
Filename: cp056550.compsig; cp056550.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 as below for use with these drivers,

- HPE QLogic FastLinQ Firmware Package for Arrowhead adapters, version 8.65.08 or later.
- HPE QLogic FastLinQ Online Firmware Upgrade Utility for VMware, version 4.18.0 or later.

Fixes

- This product correct an issue which fixes CNA stops sending LLDP (DCBX) updates in ESXi then causing link loss.
- This product correct an issue which fixes multiple servers PSOD during change external switch.

Enhancements

Remove unnecessary psod_on_error check from queue free flow and enhance debug messages

Supported Devices and Features

This product supports the following network adapters:

- HPE Ethernet 10Gb 2-port 521T Adapter
- HPE Ethernet 10Gb 2-port 524SFP+ Adapter
- HPE Ethernet 10/25Gb 2-port 621SFP28 Adapter
- HPE Ethernet 10/25Gb 2-port 622FLR-SFP28 Converged Network Adapter
- HPE StoreFabric CN1200R-T Converged Network Adapter
- HPE StoreFabric CN1300R Converged Network Adapter
- HPE Ethernet 10/25Gb 2-port SFP28 QL41232HQCU OCP3 Adapter
- HPE Ethernet 10/25Gb 2-port SFP28 QL41232HLCU Adapter
- HPE Ethernet 10Gb 4-port SFP+ QL41134HLCU Adapter
- HPE Ethernet 10Gb 2-port BaseT QL41132HLRJ Adapter
- HPE Ethernet 10Gb 2-port BaseT QL41132HQRJ OCP3 Adapter
- HPE Ethernet 10Gb 2-port SFP+ QL41132HQCU OCP3 Adapter
- HPE Ethernet 10Gb 2-port SFP+ QL41132HLCU Adapter

HPE QLogic NX2 10/20 GbE Multifunction Driver for VMware vSphere 8.0
Version: 2023.09.00 **(Recommended)**
Filename: cp056551.compsig; cp056551.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 QLogic NX2 Online Firmware Upgrade Utility for VMware*, version 1.33.0 or later, for use with this driver.

Enhancements

This product enhanced the compatibility with Firmware

Supported Devices and Features

These drivers support the following network adapters:

- HPE Ethernet 10Gb 2-port 530T Adapter
- HPE Ethernet 10Gb 2-port 530SFP+ Adapter
- HPE FlexFabric 10Gb 2-port 533FLR-T Adapter
- HPE FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter
- HPE FlexFabric 10Gb 4-port 536FLR-T Adapter
- HPE StoreFabric CN1100R Dual Port Converged Network Adapter
- HPE StoreFabric CN1100R 10GBASE-T Dual Port Converged Network Adapter

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Intel icen Driver for VMware vSphere 8.0
Version: 2023.09.00 **(Recommended)**
Filename: cp056803.compsig; cp056803.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 4.20 or later, for use with this driver.

Fixes

This product fix an issue that TCP traffic on VMs might be interrupted if PF undergoes a reset.

Enhancements

This product enhanced the compatibility with firmware of CVL4.2.

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

Firmware - Network **[Top](#)**
Broadcom Firmware Package for BCM5741x adapters
Version: 226.1.107.0 **(Recommended)**
Filename: bcm226.1.107.0.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 226.0.108.0 or later

- HPE Broadcom NetXtreme-E Drivers for Linux, version 1.10.2-226.0.139.0 or later
- HPE Broadcom NetXtreme-E Drivers for VMware, version 2023.09.00 or later

Fixes

- This product addressed device lost symptom after continuously ungraceful restart on BCM57414 OCP3 adapter.
- This product addressed some RDE pattern format for some LLDP properties.
- This product addressed the NC-SI passthrough with BMC when device is under idle mode.
- This product addressed new mechanism for loading factory default.

Enhancements

- This product enhanced the device self-diagnostic matrix and MAC verification.
- This product enhanced the link-speed calculation for internal variable.

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: 226.1.107.0 **(Recommended)**
Filename: bcm226.1.107.0_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 226.0.108.0 or later
- HPE Broadcom NetXtreme-E Drivers for Linux, version 1.10.2-226.0.139.0 or later
- HPE Broadcom NetXtreme-E Drivers for VMware, version 2023.09.00 or later

Fixes

- This product addressed some RDE pattern format for some LLDP properties.
- This product addressed the NC-SI passthrough with BMC when device is under idle mode.
- This product addressed new mechanism for loading factory default.

Enhancements

- This product enhanced the device self-diagnostic matrix and MAC verification.
- This product enhanced the link-speed calculation for internal variable.

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 VMware
Version: 1.35.50 **(Recommended)**
Filename: CP058144.compsig; CP058144.zip

Important Note!

This software package contains combo image v20.26.42 with the following firmware versions:

NIC	Boot Code Version	PXE Version	NCSI Version	UEFI Version
BCM 5719 1GbE 4p BASE-T Adptr	1.46	21.6.2	1.5.49	21.6.58

BCM 5719 1GbE 4p BASE-T OCP3 Adptr	1.46	21.6.2	1.5.49	21.6.58
BCM 5719 1GbE 4p BASE-T LOM Adptr	1.46	21.6.2	1.5.49	21.6.58
BCM 5720 1GbE 2p BASE-T LOM Adptr	1.42	21.6.2	1.5.49	21.6.58

Prerequisites

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

Fixes

This product addresses an issue where the FAN behavior with installed BCM 5719 1Gb 4p BASE-T OCP Adptr.

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 BCM5719 Ethernet 1Gb 4-port Base-T LOM Adapter for HPE

HPE Broadcom NetXtreme-E Online Firmware Upgrade Utility for VMware
Version: 5.19.2 **(Recommended)**
Filename: CP057082.compsig; CP057082.zip

Important Note!

HPE recommends *HPE Broadcom NetXtreme-E Drivers for VMware*, versions 2023.09.00 or later, for use with this firmware.

This software package contains NVM Image version 226.1.107000 with the following firmware versions:

NIC	Bootcode Version	NCSI Version	MBA Version	UEFI Version	RoCE Version
HPE Ethernet 10Gb 2-port 535FLR-T Adapter	226.0.145.0	226.0.145.0	226.0.135.0	226.0.135.0	226.0.145.0
HPE Ethernet 10Gb 2-port 535T Adapter					
HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter					
HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter					
HPE Ethernet 10Gb 2-port 537SFP+ Adapter					
HPE Ethernet 10Gb 2-port 537SFP+ FLR Adapter					

Prerequisites

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

Fixes

- This product addressed the NC-SI passthrough algorithm for some FRU-reading commands from platform side.
- This product addressed the packet forwarding rule while receiving packet which is bigger than 9600 jumbo size.
- This product addressed the link failure under FreeBSD OS after changing link speed.
- This product addressed the failure of bringing up VFs of SRIOV when doing on and off switch.
- This product addressed adapter not responsive when work under heavy loading with 128 VMs.
- The product addressed status reporting of PLDM sensor monitoring with BMC.
- This product addressed the link-flap after link down or warm boot.

Supported Devices and Features

This product supports the following network adapters:

- HPE Ethernet 10Gb 2-port 537SFP+ Adapter
  - HPE Ethernet 10Gb 2-port 537SFP+ FLR Adapter
  - HPE Ethernet 10Gb 2-port 535T Adapter
  - HPE Ethernet 10Gb 2-port 535FLR-T Adapter
  - HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter
  - HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter

HPE Broadcom NetXtreme-E Online Firmware Upgrade Utility for VMware
Version: 216.0.33011 **(Recommended)**
Filename: CP058229.compsig; CP058229.zip

Important Note!

HPE recommends *HPE Broadcom NetXtreme-E Drivers for VMware*, versions 2020.09.14 or later, for use with this firmware.

This software package contains NVM Image version 216.0.333011 with the following firmware versions:

NIC	Bootcode Version	NCSI Version	MBA Version	UEFI Version	CCM Version	RoCE Version
HPE Ethernet 10Gb 2-port 535FLR-T Adapter	214.4.91.1	214.4.42.1	214.0.241.0	214.0.305.0	216.0.52.1	214.0.194.0
HPE Ethernet 10Gb 2-port 535T Adapter						
HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter						
HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter						
HPE Ethernet 10Gb 2-port 537SFP+ Adapter						
HPE Ethernet 10Gb 2-port 537SFP+ FLR Adapter						

Prerequisites

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

Fixes

- This product corrects wrong names of adapters which show up while doing firmware update.
- This product corrects an issue about 2 ports in a port bond both being disconnected if we were just disconnecting 1 port.
- This product corrects an issue about LLDP nearest bridge packet not being disabled while that option under NIC HII was disabled.
- This product corrects the wrong LED behavior while attaching SFP-RJ45 tranceiver.
- This product corrects an issue about firmware not being actually updated even seeing it was reported as successfully by update utility.

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 10/25Gb 2-port 631FLR-SFP28 Adapter
- HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter
- HPE Ethernet 10Gb 2-port 537SFP+ Adapter
- HPE Ethernet 10Gb 2-port 537SFP+ FLR Adapter

HPE Broadcom NX1 Online Firmware Upgrade Utility VMware for HPE ProLiant Gen10 server series Only.
Version: 1.35.1 **(Recommended)**
Filename: CP057450.compsig; CP057450.zip

Important Note!

- **This component ONLY support HPE ProLiant Gen10 server series.**

This software package contains combo image v20.26.42 with the following firmware versions:

NIC	Boot Code Version	PXE Version	NCSI Version	UEFI Version
HPE Ethernet 1Gb 2-port 330i Adapter (22BD)	2.10	21.6.2	1.5.49	21.6.58
HPE Ethernet 1Gb 4-port 331i Adapter (22BE) HPE Ethernet 1Gb 4-port 331FLR Adapter HPE Ethernet 1Gb 4-port 331T Adapter	1.46	21.6.2	1.5.49	21.6.58
HPE Ethernet 1Gb 2-port 332i Adapter (22E8) HPE Ethernet 1Gb 2-port 332T Adapter	1.42	21.6.2	1.5.49	21.6.58

For previous firmware versions prior to v20.19.51, please refer to the link : https://www.hpe.com/global/swpublishing/MTX-4f19da2bceff4b73a31531d71e

Prerequisites

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

Fixes

- This product addressed the disconnection with iLO after switching to Shared Network mode.
- This product addressed the compatibility of shared memory communication on adapter.

Supported Devices and Features

This product supports 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

HPE Intel Online Firmware Upgrade Utility VMware for HPE ProLiant Gen9 and Gen10 server series Only.
Version: 3.21.0 **(Recommended)**
Filename: CP056797.compsig; CP056797.zip

Important Note!

- **This component ONLY support HPE ProLiant Gen9 and Gen10 server series.**

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

NIC	EEPROM/NVM Version	OROM Version	Single NVM Version
HPE Ethernet 1Gb 2-port 361T Adapter	80001147	1.3380.0	N/A
HPE Ethernet 1Gb 4-port 366FLR Adapter	800011A1	1.3380.0	N/A
HPE Ethernet 1Gb 4-port 366T Adapter	80001146	1.3380.0	N/A
HPE Ethernet 1Gb 2-port 368i Adapter	80003AC5	1.3380.0	N/A
HPE Ethernet 1Gb 2-port 368FLR-MMT Adapter	80003AC5	1.3380.0	N/A
HPE Ethernet 1Gb 4-port 369i Adapter	80003AC3	1.3380.0	N/A
HPE Ethernet 10Gb 2-port 568i Adapter	80003AC4	1.3380.0	N/A
HPE Ethernet 10Gb 2-port 568FLR-MMSFP+ Adapter	80003AC5	1.3380.0	N/A
HPE Ethernet 10Gb 2-port 568FLR-MMT Adapter	80003AC5	1.3380.0	N/A
HPE Ethernet 10Gb 2-port 563i Adapter	800035C0	1.1375.0	N/A
HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	8000DE20	1.3380.0	11.1.4
HPE Ethernet 10Gb 2-port 562FLR-T Adapter	800016F1	1.3380.0	10.55.3
HPE Ethernet 10Gb 2-port 562SFP+ Adapter	8000DE1F	1.3380.0	11.1.4

HPE Ethernet 10Gb 2-port 562T Adapter	800016EF	1.3380.0	10.55.3

The combo image v1.3380.0 includes: Boot Agent: 1GbE - v1.5.89, 10GbE - v2.4.45, 40GbE - v1.1.42 & UEFI Drivers: 1GbE - v9.8.24, 10GbE - v8.2.06, 40GbE - v4.9.49

The combo image v1.1375.0 includes: Boot Agent: 1GbE - v1.5.72, 10GbE - v2.3.46, 40GbE - v1.0.21 & UEFI Drivers: 1GbE - v6.9.13, 10GbE - v5.0.20, 40GbE - v1.5.14

Single NVM Version is new firmware format which represent an unified version in place of the previously used EEPROM/NVM Version or OROM version.

This software package no longer contains Firmware for the below listed supported network adapters:

HPE Ethernet 1Gb 2-port 361i Adapter

HPE Ethernet 1Gb 2-port 363i Adapter

HPE Ethernet 1Gb 4-port 366i Adapter

HPE Ethernet 1Gb 4-port 366i Communication Board

HPE Ethernet 10Gb 2-port 560FLR-SFP+ Adapter

HPE Ethernet 10Gb 2-port 560SFP+ Adapter

HPE Ethernet 10Gb 2-port 561FLR-T Adapter

HPE Ethernet 10Gb 2-port 561T Adapter

- The latest firmware version of above adapters, please refer to the link : https://support.hpe.com/connect/s/softwaredetails?language=en_US&softwareId=MTX_4e84847286af4760911448c7a0&tab=releaseNote

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 firmware installation exceeds the expected time by using Oneview to update Firmware with 568FLR-MMSFP+.

Enhancements

This product now supports VMware vSphere 8.0.

Supported Devices and Features

This package supports the following network adapters:

- HPE Ethernet 1Gb 2-port 361T Adapter
- HPE Ethernet 1Gb 2-port 368FLR-MMT Adapter
- HPE Ethernet 1Gb 2-port 368i Adapter
- HPE Ethernet 1Gb 4-port 366FLR Adapter
- HPE Ethernet 1Gb 4-port 366T Adapter
- HPE Ethernet 1Gb 4-port 369i Adapter
- HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter
- HPE Ethernet 10Gb 2-port 562FLR-T Adapter
- HPE Ethernet 10Gb 2-port 562SFP+ Adapter
- HPE Ethernet 10Gb 2-port 562T 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 563i Adapter

HPE QLogic FastLinQ Firmware Package for Arrowhead adapters
Version: 8.65.08 **(Recommended)**
Filename: ql_hp_ah_mbi_8.65.08_pldm.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,

- HPE QLogic FastLinQ 10/25/50 GbE Drivers for Linux, version 8.72.4.1 or later
- HPE QLogic FastLinQ 10/25/50 GbE Drivers for Microsoft Windows Server x64 Editions, version 8.72.0.0 or later
- HPE QLogic FastLinQ 10/25/50 GbE Multifunction Drivers for VMware, version 2023.09.00 or later

This software package contains combo image v8.65.08. This combo image includes: Boot Code (MFW): 8.65.3.0, PXE:2.0.19, and UEFI: 4.1.13.1.

Enhancements

This product enhanced the compatibility with drivers

Supported Devices and Features

This product supports the following network adapters:

- HPE Ethernet 10Gb 2-port 521T Adapter
- HPE Ethernet 10Gb 2-port 524SFP+ Adapter
- HPE Ethernet 10/25Gb 2-port 621SFP28 Adapter
- HPE Ethernet 10/25Gb 2-port 622FLR-SFP28 Adapter
- HPE StoreFabric CN1200R-T Converged Network Adapter
- HPE StoreFabric CN1300R Converged Network Adapter

HPE QLogic FastLinQ Online Firmware Upgrade Utility for VMware
Version: 4.18.0 **(Recommended)**
Filename: CP056593.compsig; CP056593.zip

Important Note!

HPE recommends *HPE QLogic FastLinQ 10/25/50GbE Multifunction Drivers for VMware*, versions 2023.09.00 or later, for use with this firmware.

This software package contains combo image version v8.65.08 includes:

- Boot Code (MFW): 8.65.3.0
- UEFI: 4.1.13.1
- PXE: 2.0.19

The users will only see the combo image versions in the interactive mode firmware update or while using HPSUM/SPP to update the firmware on the supported adapters.

Prerequisites

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

Enhancements

This product enhanced the compatibility with drivers

Supported Devices and Features

This product supports the following network adapters:

- HPE Ethernet 10Gb 2-port 521T Adapter
- HPE Ethernet 10Gb 2-port 524SFP+ Adapter
- HPE Ethernet 10/25Gb 2-port 621SFP28 Adapter
- HPE Ethernet 10/25Gb 2-port 622FLR-SFP28 Converged Network Adapter
- HPE StoreFabric CN1200R-T Converged Network Adapter
- HPE StoreFabric CN1300R Converged Network Adapter

HPE QLogic NX2 Online Firmware Upgrade Utility for VMware
Version: 1.33.1 **(Recommended)**
Filename: CP056596.compsig; CP056596.zip

Important Note!

HPE recommends HPE QLogic NX2 10/20GbE Multifunction Drivers for VMware, versions 2023.09.00 or later, for use with this firmware.

This software package contains combo image v7.19.14 with the following firmware versions:

NIC	Boot Code Version	PXE Version	UEFI Version	iSCSI Version	FCoE Version	CCM Version	L2 Version
HPE Ethernet 10Gb 2-port 530SFP+ Adapter HPE Ethernet 10Gb 2-port 530T Adapter	7.16.13	7.14.13	8.9.3	n/a	n/a	7.14.4	7.12.25
HPE Ethernet 10Gb 2-port 533FLR-T Adapter HPE FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter HPE FlexFabric 10Gb 4-port 536FLR-T Adapter HPE StoreFabric CN1100R Dual Port Converged Network Adapter HPE StoreFabric CN1100R-T Converged Network Adapter	7.16.13	7.14.13	8.9.3	7.14.0	7.14.3	7.14.4	7.12.25

Prerequisites

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

Enhancements

This product enhanced the compatibility with drivers

Supported Devices and Features

This product supports the following network adapters:

- HPE Ethernet 10Gb 2-port 530SFP+ Adapter
- HPE Ethernet 10Gb 2-port 530T Adapter
- HPE Ethernet 10Gb 2-port 533FLR-T Adapter
- HPE FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter
- HPE FlexFabric 10Gb 4-port 536FLR-T Adapter
- HPE StoreFabric CN1100R Dual Port Converged Network Adapter
- HPE StoreFabric CN1100R-T Converged Network Adapter

Intel Firmware Package For E810-2CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter
Version: 4.20 **(Recommended)**
Filename: HPE_E810_2CQDA2_O_SEC_4p20_PLDMoMCTP_80017784.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 1.12.164.0 or later
- Intel ice Drivers for Linux, version 1.11.14-1 or later
- Intel icen Driver for VMware, version 2023.09.00 or later

This FW version does not support Port.Reset RDE metrics. This product will be enhance to improve the functions in the future release

Fixes

This product addresses an issue where InterfaceEnabled property is read only and it can't patch this property

Enhancements

This product now supports ResetToDefault property(RDE Port Schema).

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: 4.20 **(Recommended)**
Filename: HPE_E810_CQDA2_4p20_PLDMoMCTP_80017785.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,

- o Intel icea Driver for Microsoft Windows Server, version 1.12.164.0 or later
- o Intel ice Drivers for Linux, version 1.11.14-1 or later
- o Intel icen Driver for VMware, version 2023.09.00 or later

This FW version does not support Port.Reset RDE metrics. This product will be enhance to improve the functions in the future release

Fixes

This product addresses an issue where InterfaceEnabled property is read only and it can't patch this property

Enhancements

This product now supports ResetToDefault property(RDE Port Schema).

Supported Devices and Features

This product supports the following network adapters:

- o 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: 4.20 **(Recommended)**
Filename: HPE_E810_CQDA2_OCP_4p20_NCSIwPLDMoMCTP_80017783.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,

- o Intel icea Driver for Microsoft Windows Server, version 1.12.164.0 or later
- o Intel ice Drivers for Linux, version 1.11.14-1 or later
- o Intel icen Driver for VMware, version 2023.09.00 or later

This FW version does not support Port.Reset RDE metrics. This product will be enhance to improve the functions in the future release

Fixes

This product addresses an issue where InterfaceEnabled property is read only and it can't patch this property

Enhancements

This product now supports ResetToDefault property(RDE Port Schema).

Supported Devices and Features

This product supports the following network adapters:

- o 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: 4.20 **(Recommended)**
Filename: HPE_E810_XXVDA2_SD_4p20_PLDMoMCTP_8001778C.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 1.12.164.0 or later
- ○ Intel ice Drivers for Linux, version 1.11.14-1 or later
- ○ Intel icen Driver for VMware, version 2023.09.00 or later

This FW version does not support Port.Reset RDE metrics. This product will be enhance to improve the functions in the future release

Fixes

This product addresses an issue where InterfaceEnabled property is read only and it can't patch this property

Enhancements

This product now supports ResetToDefault property(RDE Port Schema).

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: 4.20 **(Recommended)**
Filename: HPE_E810_XXVDA2_SD_OCP_4p20_NCSIwPLDMoMCTP_80017787.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 1.12.164.0 or later
- ○ Intel ice Drivers for Linux, version 1.11.14-1 or later
- ○ Intel icen Driver for VMware, version 2023.09.00 or later

This FW version does not support Port.Reset RDE metrics. This product will be enhance to improve the functions in the future release

Fixes

This product addresses an issue where InterfaceEnabled property is read only and it can't patch this property

Enhancements

This product now supports ResetToDefault property(RDE Port Schema).

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: 4.20 **(Recommended)**
Filename: HPE_E810_XXVDA4_FH_4p20_PLDMoMCTP_80017789.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 1.12.164.0 or later
- ○ Intel ice Drivers for Linux, version 1.11.14-1 or later
- ○ Intel icen Driver for VMware, version 2023.09.00 or later

This FW version does not support Port.Reset RDE metrics. This product will be enhance to improve the functions in the future

release

Fixes

This product addresses an issue where InterfaceEnabled property is read only and it can't patch this property

Enhancements

This product now supports ResetToDefault property(RDE Port Schema).

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 OCP3 Adapter
Version: 4.20 **(Recommended)**
Filename: HPE_E810_XXV4_OCP_4p20_NCSIwPLDMoMCTP_80017788.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 1.12.164.0 or later
- Intel ice Drivers for Linux, version 1.11.14-1 or later
- Intel icen Driver for VMware, version 2023.09.00 or later

This FW version does not support Port.Reset RDE metrics. This product will be enhance to improve the functions in the future release

Fixes

This product addresses an issue where InterfaceEnabled property is read only and it can't patch this property

Enhancements

This product now supports ResetToDefault property(RDE Port Schema).

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 VMware
Version: 3.21.0 **(Recommended)**
Filename: CP056800.compsig; CP056800.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	8000DD4F	1.3353.0	9.20
HPE Ethernet 10Gb 2-port SFP+ X710-DA2 Adapter	8000DD5C	1.3353.0	9.20
Intel I350-T4 Ethernet 1Gb 4-port BASE-T Adapter	80001099	1.3353.0	N/A
Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter	80001199	1.3353.0	N/A

Intel(R) I350 Gigabit Network Connection (2-port)	8000119C	1.3353.0	N/A
Intel(R) I350 Gigabit Network Connection (4-port)	8000119D	1.3353.0	N/A

The combo image v1.3353.0 includes: Boot Agent: 1GbE - v1.5.89, 10GbE - v2.4.45, 40GbE - v1.1.42 & UEFI Drivers: 1GbE - v9.8.24, 10GbE - v8.2.06, 40GbE - v4.9.49

Prerequisites

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

Enhancements

This product now supports VMware vSphere 8.0.

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

Marvell FastLinQ Firmware Package for Arrowhead adapters
Version: 8.65.08 **(Recommended)**
Filename: ql_ah_mbi_open_8.65.08_pldm.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,

- Marvell FastLinQ 10/25/50 GbE Drivers for Microsoft Windows Server x64 Editions, version 8.72.0.0 or later
- HPE QLogic FastLinQ 10/25/50 GbE Drivers for Linux, version 8.72.4.1 or later
- HPE QLogic FastLinQ 10/25/50 GbE Multifunction Drivers for VMware, version 2023.09.00 or later

Enhancements

This product enhanced the compatibility with drivers

Supported Devices and Features

This product supports the following network adapters:

- HPE Ethernet 10/25Gb 2-port SFP28 QL41232HLCU Adapter
- HPE Ethernet 10/25Gb 2-port SFP28 QL41232HQCU OCP3 Adapter
- HPE Ethernet 10Gb 2-port BaseT QL41132HLRJ Adapter
- HPE Ethernet 10Gb 2-port BaseT QL41132HQRJ OCP3 Adapter
- HPE Ethernet 10Gb 2-port SFP+ QL41132HLCU Adapter
- HPE Ethernet 10Gb 2-port SFP+ QL41132HQCU OCP3 Adapter
- HPE Ethernet 10Gb 4-port SFP+ QL41134HLCU Adapter

Marvell FastLinQ Online Firmware Upgrade Utility for VMware
Version: 8.55.12 **(Recommended)**
Filename: CP058235.compsig; CP058235.zip

Important Note!

This software package contains combo image v8.55.12. This combo image includes:

- PXE: 2.0.19
- Boot Code (MFW): 8.55.22.0
- UEFI: 6.1.8.2

Prerequisites

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

Fixes

- This product contains support PLDM firmware upgrade base improvements.
- This product addresses an overheat issue on the network adapters as below,

    HPE Ethernet 10Gb 2-port BaseT QL41132HLRJ Adapter
    HPE Ethernet 10Gb 2-port BaseT QL41132HQRJ OCP3 Adapter

Enhancements

This product now supported NPAR enabling option.

Supported Devices and Features

This product supports the following network adapters:

- HPE Ethernet 10/25Gb 2-port SFP28 QL41232HQCU OCP3 Adapter
- HPE Ethernet 10/25Gb 2-port SFP28 QL41232HLCU Adapter
- HPE Ethernet 10Gb 4-port SFP+ QL41134HLCU Adapter
- HPE Ethernet 10Gb 2-port BaseT QL41132HLRJ Adapter
- HPE Ethernet 10Gb 2-port BaseT QL41132HQRJ OCP3 Adapter
- HPE Ethernet 10Gb 2-port SFP+ QL41132HQCU OCP3 Adapter
- HPE Ethernet 10Gb 2-port SFP+ QL41132HLCU Adapter

Mellanox Firmware Package (FWPKG) for HPE Ethernet 100Gb 1-port QSFP28 PCIe3 x16 MCX515A-CCAT Adapter : HPE part numbers P31246-B21 and P31246-H21
Version: 16.35.3006 **(Recommended)**
Filename: 16_35_3006-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.

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A list of known issues with this release is available at: https://docs.nvidia.com/networking/display/ConnectX5Firmwarev16353006LTS/Known+Issues

Prerequisites

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

Fixes

The following issues have been fixed in version 16.35.3006:

- Packet loss that occurred when restarting the transmit.
- An issue that prevented RoCE malformed packets (UDP packet with dest_port equal to RoCE well known udp_dport (0x4791)) from being counted on the vport_counter when the function disables RoCE (through MODIFY_NIC_VPORT_CONTEXT command).
- A memory leakage that occurred when closing connected QPs (Type RC/UC/XRC/DC).
- Added a missing VLAN strip.

Enhancements

Important : Security Hardening Enhancements - This release contains important reliability improvements and security hardening

enhancements. HPE recommends upgrading your device firmware to this version to improve the firmware security and reliability of your device.

New features and changes included in version 16.35.3006:

- Enabled ACS for single port cards.
- Added vPort counters after creating the LAG demux table to count kernel packets reaching all the PFs participating in the LAG.

Supported Devices and Features

This software package contains the following firmware versions:

Mellanox Ethernet Only Adapters	Firmware Version	PSID
HPE Ethernet 100Gb 1-port QSFP28 PCIe3 x16 MCX515A-CCAT Adapter(P31246-B21 and P31246-H21)	16.35.3006	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: 20.37.1700 **(Recommended)**
Filename: 20_37_1700-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.

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A list of known issues with this release is available at: https://docs.nvidia.com/networking/display/ConnectX6Firmwarev20371014/Known+Issues

Note: The firmware version xx.37.1014 is generic firmware distributed by NVIDIA and is not published by HPE. HPE does not recommend customers to use the version xx.37.1014, however the list of 'Known issues' remain the same between the versions xx.37.1700 and xx.37.1014.

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

No fixes in this version.

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 20.37.1700:

- A new capability enables the VM to track and limit its Vport's activity. This is done using the new q_counters counter which enables aggregation of other Vport's from PF GVMI.

- Updated the link maintenance flow to avoid high uncorrectable error rate.

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)	20.37.1700	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: 20.37.1700 **(Recommended)**
Filename: 20_37_1700-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.

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A list of known issues with this release is available at: https://docs.nvidia.com/networking/display/ConnectX6Firmwarev20371014/Known+Issues

Note: The firmware version xx.37.1014 is generic firmware distributed by NVIDIA and is not published by HPE. HPE does not recommend customers to use the version xx.37.1014, however the list of 'Known issues' remain the same between the versions xx.37.1700 and xx.37.1014.

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

No fixes in this version.

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 20.37.1700:

- A new capability enables the VM to track and limit its Vport's activity. This is done using the new q_counters counter which enables aggregation of other Vport's from PF GVMI.
- Updated the link maintenance flow to avoid high uncorrectable error rate.

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)	20.37.1700	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: 20.37.1700 **(Recommended)**
Filename: 20_37_1700-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

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A list of known issues with this release is available at: https://docs.nvidia.com/networking/display/ConnectX6Firmwarev20371014/Known+Issues

Note: The firmware version xx.37.1014 is generic firmware distributed by NVIDIA and is not published by HPE. HPE does not recommend customers to use the version xx.37.1014, however the list of 'Known issues' remain the same between the versions xx.37.1700 and xx.37.1014.

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

No fixes in this version.

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 20.37.1700:

- A new capability enables the VM to track and limit its Vport's activity. This is done using the new q_counters counter which enables aggregation of other Vport's from PF GVMI.
- Updated the link maintenance flow to avoid high uncorrectable error rate.

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)	20.37.1700	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: 20.37.1700 **(Recommended)**
Filename: 20_37_1700-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

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A list of known issues with this release is available at: https://docs.nvidia.com/networking/display/ConnectX6Firmwarev20371014/Known+Issues

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Prerequisites

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

Fixes

No fixes in this version.

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 20.37.1700:

- A new capability enables the VM to track and limit its Vport's activity. This is done using the new q_counters counter which enables aggregation of other Vport's from PF GVMI.
- Updated the link maintenance flow to avoid high uncorrectable error rate.

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)	20.37.1700	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: 20.37.1700 **(Recommended)**
Filename: 20_37_1700-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.

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A list of known issues with this release is available at: https://docs.nvidia.com/networking/display/ConnectX6Firmwarev20371014/Known+Issues

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Prerequisites

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

Fixes

No fixes in this version.

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 20.37.1700:

- A new capability enables the VM to track and limit its Vport's activity. This is done using the new q_counters counter which enables aggregation of other Vport's from PF GVMI.
- Updated the link maintenance flow to avoid high uncorrectable error rate.

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)	20.37.1700	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: 20.37.1700 **(Recommended)**
Filename: 20_37_1700-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

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A list of known issues with this release is available at: https://docs.nvidia.com/networking/display/ConnectX6Firmwarev20371014/Known+Issues

Note: The firmware version xx.37.1014 is generic firmware distributed by NVIDIA and is not published by HPE. HPE does not recommend customers to use the version xx.37.1014, however the list of 'Known issues' remain the same between the versions xx.37.1700 and xx.37.1014.

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

No fixes in this version.

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 20.37.1700:

- A new capability enables the VM to track and limit its Vport's activity. This is done using the new q_counters counter which enables aggregation of other Vport's from PF GVMI.
- Updated the link maintenance flow to avoid high uncorrectable error rate.

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)	20.37.1700	MT_0000000453

Online Firmware Upgrade Utility (ESXi 8.0) for HPE Ethernet 10Gb 2-port 548SFP+ Adapter
Version: 1.0.0 **(Recommended)**
Filename: CP053859.compsig; CP053859.zip

Prerequisites

Use iLO5 firmware version 2.30 or higher with ConnectX4-Lx firmware version 14.32.1010. Thermal sensor reporting on the adapter will not be functional with older versions of iLO5 firmware.

Fixes

The following issues have been fixed in version 14.32.1010:

- Firmware got into an unresponsive state and caused unexpected behavior when connecting an optical transceiver that support RxLOS and the remote side port was down.
- The system could not create more than 128K QPs.
- On rare occasions, the system got into an unresponsive state when a peer port went down while using an Optical module.
- Packet Pacing rate was used if asymmetric VFs was enabled.
- Incorrect RNR timeout when trying to set it during the rts2rts_qp transition.
- Issue with RSS on IPSec flows in ConnectX-4 Lx led to performance degradation. In this scenario, the SPI optimization caused packets from a given host to hash to the same CPU core. The fix was to ignore SPI optimization according to l4_type in ConnectX-4 Lx adapter cards.
- The GetInventory NC-SI command reported leading 0xf in firmware version when it started with 0.

Enhancements

Firmware for the following device has been updated to 14.32.1010:

- P11338-B21 (HPE Ethernet 10Gb 2-port 548SFP+ Adapter)

New features and changes included in version 14.32.1010:

- Added 3 new assert filters (Health buffer, NVlog, FW trace). The assert will be exposed now if its severity level is equal to or above the new filter.
- Enabled Rate Limit per VM instead of VM-TC. This capability is implemented by adding support to a new Scheduling element type: rate limit elements that will connect to the rate_limit and will share its rate limit.
- Added support for asymmetrical VFs per PF. To enable it:PF_NUM_OF_VF_VALID must be true, and PF_NUM_OF_VF to a non-zero value.
- Limited the external loopback speed to the used module's capabilities.
- Improved linkup time when using the fast linkup capability.
- Added support for the slow_restart and slow_restart_idle parameters to enable Zero Touch RoCE capability.

Supported Devices and Features

HPE Part Number	Mellanox Ethernet Only Adapters	PSID
P11338-B21	HPE Ethernet 10Gb 2-port 548SFP+ Adapter	HPE0000000038

Online Firmware Upgrade Utility (ESXi 8.0) for HPE Mellanox VPI (Ethernet and Infiniband mode) devices on VMware ESXi 8.0
Version: 1.0.0 **(Recommended)**
Filename: CP052070.compsig; CP052070.zip

Important Note!

Known Issues in firmware 2.42.5000, 2.42.5056, 2.42.5700:

- When using the Quad Small Form-factor Pluggable (QSFP) module RTXM320-581, and performing a driver restart for the firmware upgrade/downgrade to take effect, the link does not come up.
  Workaround: Reboot the server.
- Enabling/disabling cq_timestamp using mlxconfig is not supported.
- In a card with 2 separate LEDs scheme (a Phy LED and a logic LED) only the Phy LED will lit. Meaning, the orange LED will not be active while the ETH link is in an idle mode.
- In SR-IOV setup, using mlxconfig when the Packet Filter (PF) is passed through to a VM requires a reboot of the Hypervisor.
- Downgrading from v2.30.8000 or later to an earlier version than 2.30.8000 requires server reboot.
  Workaround: Reboot the server.
- On ConnectX-3 Ethernet adapter cards, there is a mismatch between the GUID value returned by firmware management tools and that returned by fabric/ driver utilities that read the GUID via device firmware (e.g., using ibstat). Mlxburn/flint

return 0xffff as GUID while the utilities return a value derived from the MAC address. For all driver/firmware/software purposes, the latter value should be used.
Workaround: Please use the GUID value returned by the fabric/driver utilities (not 0xfffff).

- SBR should be asserted for a minimum of 50 milliseconds for the ConnectX-3 adapters.
- On Pilot1 SL230, PCIe link occasionally does not come up at Gen3 speed.
- RHEL6.3 Inbox driver causes kernel panic when SRIOV is enabled on VPI cards due to driver compatibility issue.
- **Workaround**: Set the "do_- sense=false" parameter in the [IB_TAB] i.
- In advanced steering mode, side band management connectivity may be lost when having more than 8 QP per mcg.
- When SR-IOV is disabled in the system BIOS, a PCI issue is noticed in Ubuntu v12.04.3 with Linux kernel v3.8 which affects NICs of several manufacturers including Mellanox's, preventing them from operating.
  Workaround: Enable SR-IOV in the BIOS.
- Mellanox Firmware Tools (MFT) might leave the flash semaphore locked if the tool operation is forced stopped. The locked semaphore prevents the firmware from accessing the flash and causes firmware hang.
  Workaround: Clear the semaphore using MFT command: 'flint -clear_semaphore'
- Cable Info MAD reports a wrong cable info when using the MC2210411-SR4 module.
- Gen2 failure at temperature sweep up to 10C/min (for MT27518A1-FDIR-BV only)..
- PCIe Gen2 link unstable at temperature sweep of 10C/min for MT27518A1-FDIR-BV.
- Bloom filter is currently not supported.
- When downgrading from firmware v2.11.0000 and using MFT 3.0.0-3, the following message is displayed due to the mlxconfig tool: You are trying to override configurable FW by non-configurable FW. If you continue, old FW configurations will be cleared, do you want to continue ? (y/n) [n] : y You are trying to restore default configuration, do you want to continue ? (y/n) [n] : y.
- DMFS should not be enabled when working with InfiniBand on MLNX_OFED-2.0.3
- ConnectX®-3 Pro VF device ID is presented the same as ConnectX®-3 VF device ID due to driver limitations.
  Workaround: Use the physical function device ID to identify the device.
- Virtual Product Data (VPD) read-only fields are writable.
  Workaround: Do not write to read-only fields if you wish to preserve them.
- When working in Virtual Path Identifier (VPI) mode with port1 FDR and port2 40G, error counters misbehave and increase rapidly.
- Setting the device to 128Byte CQ/EQ stride will cause misbehavior of sideband management resulting in communication loss.
- CQ and EQ cannot be configured to different stride sizes.
- Changing port protocol from ETH to IB on port with NCSI/IPMI enabled while the port is connected to ETH switch is not supported.
  Workaround: 1. Unplug the cable from the switch 2. Restart driver 3. Change the protocol via the appropriate tools.
- Adapter card MCX349A-XCCN may experience longer linkup times of a few seconds with specific switches.
- Adapter card MCX349A-XCCN does not respond to ethtool "identify" command (ethtool -p/--identify).
- Remote Desktop Protocol (RDP) over IPv6 is currently not functional.
  Workaround: Set the default RoCE mode in the software to RoCE v2 (also when not using RoCE)
- Sniffer QP cannot be removed from the regular rule after adding the QP with insertion scheme equals to "push to that rule".
- Since only a single Boot Entry Vector (BEV) per PCI Physical Function is supported, disabling the first port causes the second port to disappear as well.
- The NIC does not notify the driver of a link-down incident when a cable is unplugged from a NIC port with 56GbE port link.
- 56GbE link is not raised when using 100GbE optic cables.
- When working with MLNX_OFED v3.3-1.0.0.0, server reboot could get stuck due to a kernel panic in mlx4_en_get_drvinfo() that is called from asynchronous event handler.
- When running ibdump, loopback traffic is mirroring into the kernel driver.
- MAC address that are set from the OS using ifconfig are not reflected in the OCBB buffer.
- The adapter card cannot raise a 10G link vs. a 40GE capable switch port in C7000 enclosure. It can raise a 1G Link and only if the switch port allows it.
- MTUSB communication via I2C header on primary I2C bus is supported only in live-fish mode.

Fixes

Fixes in version 2.42.5000:

- PortRcvPkts counter was prevented from being cleared after resetting it.
- The system Timed Out on the configuration cycle of the Virtual Functions (VFs) when more than 10 Virtual Functions performed FLR and the completion Time Out value was configured to a range of less than 16 msec.
- The server hangs and results in NMI when running "mlxfwtop –d mt4103_pci_cr0" while restarting the driver in parallel (from a different thread). In this case, the downstream bridge over the device reported completion timeout error.
- In flow_steering, BMC could not receive a ping over IPV6 after running bmc_reboot.
- While closing the HCA, the RX packet caused bad access to resources that did not exist, and consequently caused the QPCGW or the irisc to get stuck.
- The master SMLID and the LID was either 0 or 0xFFFF when the port was neither active nor armed.
- ibdump could not capture all MADs packets.
- link did not go up after reboot.
- Fixed a rare issue that cause the PCIe configuration cycle that arrived during the time of sw_reset to generate 2 completions.
- Network Controller Sideband Interface (NC-SI) did not work when adding the disable_static_steering_ini field in the ini file, due to memory allocation issue for this field in the scratchpad.

Fixes in version 2.42.5056:

- Fixed an issue that resulted in reading from invalid I/O address on handover from UEFI boot to OS boot, when a port was configured as InfiniBand on a VPI adapter device.

Enhancements

Firmware for the following devices are updated to 2.42.5000:
764282-B21
764286-B21

Firmware for the following devices are updated to 2.42.5056:
764283-B21
764284-B21

Firmware for the following device is updated to 2.42.5700:
764285-B21

New features in firmware version 2.42.5000:

- Added support for the following features.
  - new TLV: CX3_GLOBAL_CONF to enable/disable timestamp on incoming packets through mlxconfig configuration.
  - User MAC configuration.
  - Automatically collecting mstdump before driver reset.
  - A mechanism to detect DEAD_IRISC (plastic) from TPT (iron) and raise an assert.
  - A new field is added to "set port" command which notifies the firmware what is the user_mtu size.
- Improved the debug ability for command timeout cases.

New features and changes in firmware version 2.42.5700.

- Modified the mlx_cmd_get_mlx_link_status command return value to return "Link Type = Ethernet" in Ethernet adapter cards.

Supported Devices and Features

Supported Devices:

HPE Part Number	Device Name	PSID
764282-B21	HPE InfiniBand QDR/Ethernet 10Gb 2-port 544+M Adapter	HPE_1350110023
764283-B21	HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+M Adapter	HPE_1360110017
764284-B21	HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+QSFP Adapter	HPE_1370110017
764285-B21	HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+FLR-QSFP Adapter	HPE_1380110017
764286-B21	HPE InfiniBand QDR/Ethernet 10Gb 2-port 544+FLR-QSFP Adapter	HPE_1390110023

Firmware - NVDIMM
Firmware package for HPE Persistent Memory featuring Intel Optane DC Persistent Memory on HPE Gen10 Plus Servers
Version: 02.02.00.1553 (D) **(Recommended)**
Filename: dcpmm_02.02.00.1553.fwpkg

Important Note!

This software package contains Intel Optane DC Persistent Memory Firmware version 2.2.0.1553

Fixes

This product corrects an issue that three different capacities of Intel Optane DC Persistent Memory are identifiable with three individual device GUID.

Enhancements

- Add ESXi 8.0 support

Supported Devices and Features

This package supports the following Memory Devices:

- HPE 512GB 3200 Persistent Memory Kit featuring Intel Optane DC Persistent Memory
- HPE 256GB 3200 Persistent Memory Kit featuring Intel Optane DC Persistent Memory
- HPE 128GB 3200 Persistent Memory Kit featuring Intel Optane DC Persistent Memory

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Firmware package for HPE Persistent Memory featuring Intel Optane DC Persistent Memory on HPE Gen10 Servers
Version: 01.02.00.5446 (C) **(Recommended)**

Filename: dcpmm_01.02.00.5446.fwpkg

Important Note!

This software package contains Intel Optane DC Persistent Memory Firmware version 1.2.0.5446

Enhancements

- Add ESXi 8.0 Support

Supported Devices and Features

This package supports the following Memory Devices:

- HPE 512GB 2666 Persistent Memory Kit featuring Intel Optane DC Persistent Memory
- HPE 256GB 2666 Persistent Memory Kit featuring Intel Optane DC Persistent Memory
- HPE 128GB 2666 Persistent Memory Kit featuring Intel Optane DC Persistent Memory

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Firmware - Storage Controller
Firmware Package - HPE Smart Array P408i-p, P408e-p, P408i-a, P408i-c, E208i-p, E208e-p, E208i-c, E208i-a, P408e-m, P204i-c, P416ie-m and P816i-a SR Gen10 and Gen11 controllers
Version: 6.22 **(Recommended)**
Filename: HPE_SR_Gen10_6.22_A.fwpkg

Prerequisites

The pre-requisite is to upgrade FW to 5.61 to enable the PLDM FW update functionality for adapter through Windows/Linux/ESXi smart components, after that you are able to use FWPKG file to directly flash to 6.22 or future released FW versions via iLO without any OS dependency.

Please find the minimum smart component version required (5.61) in below links:

- Windows: https://www.hpe.com/global/swpublishing/MTX-97c64253fda44882a5f5675fe
- Linux: https://www.hpe.com/global/swpublishing/MTX-e6ae9fd78cce4b588fa6531d0f
- VMware: https://www.hpe.com/global/swpublishing/MTX-148e96beafef429dbff0756130

Enhancements

Initial Release

Firmware Package - HPE Gen11 Boot Controller NS204i-u and HPE Gen10 Plus Boot Controller NS204i-p, NS204i-t, NS204i-r
Version: 1.2.14.1010 **(Recommended)**
Filename: HPE_NS204i_Gen11_1.2.14.1010_A.fwpkg

Important Note!

Current firmware has to be 1.0.14.1063 or later in order to enable PLDM firmware update functionality for the controller. Please find the smart component versions of 1.0.14.1063 in below link:

- Windows: https://www.hpe.com/global/swpublishing/MTX-be195b2891724ec8bb72c8bb2
- Linux: https://www.hpe.com/global/swpublishing/MTX-269e14d0e2524277bf699f433
- Vmware: https://www.hpe.com/global/swpublishing/MTX-1ffaca997cf248cd9f832a04c6

Prerequisites

- iLO 6 version 1.10 or later is required for Gen11 servers.
- iLO 5 version 2.81 or later is required for Gen10 and Gen10 Plus servers

Enhancements

Enable Redfish Write for Drive.SecureErase and Storage.ResetToDefault. Users are able to reset the controller through PLDM.

Firmware Package - HPE MR216i-a Gen10 Plus Tri Mode Controller
Version: 52.24.3-4948 **(Recommended)**
Filename: HPE_MR216i-a_Gen10P_52.24.3-4948_A.fwpkg

Important Note!

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

<u>**Fixes**</u>

- Fix a00127934en_us: HPE ProLiant Gen10 Plus Servers - Unable to Switch From LKM to EKM With MR Controllers When Boot Time Password is Set
- Fix an issue that Sanitize Block Erase on NVMe drive along with shutdown sequence may cause assertion in firmware.
- Fix an issue that GET Volume query from REST client may fail when multiple Volumes are configured on the controller
- Fix an issue that firmware throws error when setting WCE (Disk Write Cache) = 0 for JBOD drive.
- Fix an issue that HDD sensor shows temperature on 14-HD Max when there is no drive installed.
- Fix an issue that HII page may hang while there is pinned cache then do drives initialization and View Server Profile.
- Fix a rare issue that controller may not getting discovered when there is power loss during cache restoration from a previous power loss.
- Fix an issue that controller may hang and Online Controller Reset is triggered after running "storcli /cx set debug reset all" and then "storcli /cx get snapdump".
- Fix an issue that enable security on logical drive may enable security on other unrelated drives which were configured as Dedicated Spare drive for other secured logical drive before.
- Fix an issue that drive running sanitize overwrite may become Unconfigured Bad Unsupported after a cold boot
- Fix a rare issue that firmware may hit assertion failure when a drive causes IO issue and fails.
- Fix an issue that IML 1906 may be incorrectly logged when doing config clear and reboot.
- Fix an issue that NVMe drives may move to Unconfigured Bad state from Unconfigured Good during driver unload-reload.
- Fix an issue that SPDM GET_MEASUREMENTS command signature verification is failing at iLO

<u>**Enhancements**</u>

- DMTF PLDM Redfish Device Enablement enhancements
  - Support Volume Creation and Deletion by the following Redfish requests
    - POST VolumeCollection
    - DELETE Volume
    - GET Volume Capabilities
  - Added support for the following Redfish ACTION requests:
    - POST Storage.ResetToDefaults
    - POST Volume.Initialize
    - POST Drive.SecureErase
  - Added support for Redfish PATCH requests for the following properties:
    - PATCH Volume.DedicatedSpareDrives
    - PATCH Volume.DisplayName
    - PATCH Volume.ReadCachePolicy
    - PATCH Volume.WriteCachePolicy
    - PATCH Drive.HotspareType
    - PATCH Drive.LocationIndicatorActive
    - PATCH Drive.WriteCacheEnabled
- Support DMTF PLDM firmware update for drive

Firmware Package - HPE MR216i-p Gen10 Plus Tri Mode Controller with Gen10 and Gen10 Plus servers
Version: 52.24.3-4948 **(Recommended)**
Filename: HPE_MR216i-p_Gen10P_52.24.3-4948_A.fwpkg

<u>**Important Note!**</u>

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

<u>**Fixes**</u>

- Fix a00127934en_us: HPE ProLiant Gen10 Plus Servers - Unable to Switch From LKM to EKM With MR Controllers When Boot Time Password is Set
- Fix an issue that Sanitize Block Erase on NVMe drive along with shutdown sequence may cause assertion in firmware.
- Fix an issue that GET Volume query from REST client may fail when multiple Volumes are configured on the controller
- Fix an issue that firmware throws error when setting WCE (Disk Write Cache) = 0 for JBOD drive.
- Fix an issue that HDD sensor shows temperature on 14-HD Max when there is no drive installed.
- Fix an issue that HII page may hang while there is pinned cache then do drives initialization and View Server Profile.
- Fix a rare issue that controller may not getting discovered when there is power loss during cache restoration from a previous power loss.
- Fix an issue that controller may hang and Online Controller Reset is triggered after running "storcli /cx set debug reset all"

and then "storcli /cx get snapdump".
- Fix an issue that enable security on logical drive may enable security on other unrelated drives which were configured as Dedicated Spare drive for other secured logical drive before.
- Fix an issue that drive running sanitize overwrite may become Unconfigured Bad Unsupported after a cold boot
- Fix a rare issue that firmware may hit assertion failure when a drive causes IO issue and fails.
- Fix an issue that IML 1906 may be incorrectly logged when doing config clear and reboot.
- Fix an issue that NVMe drives may move to Unconfigured Bad state from Unconfigured Good during driver unload-reload.
- Fix an issue that SPDM GET_MEASUREMENTS command signature verification is failing at iLO

Enhancements

- DMTF PLDM Redfish Device Enablement enhancements
  - Support Volume Creation and Deletion by the following Redfish requests
    - POST VolumeCollection
    - DELETE Volume
    - GET Volume Capabilities
  - Added support for the following Redfish ACTION requests:
    - POST Storage.ResetToDefaults
    - POST Volume.Initialize
    - POST Drive.SecureErase
  - Added support for Redfish PATCH requests for the following properties:
    - PATCH Volume.DedicatedSpareDrives
    - PATCH Volume.DisplayName
    - PATCH Volume.ReadCachePolicy
    - PATCH Volume.WriteCachePolicy
    - PATCH Drive.HotspareType
    - PATCH Drive.LocationIndicatorActive
    - PATCH Drive.WriteCacheEnabled
- Support DMTF PLDM firmware update for drive

Firmware Package - HPE MR416i-a Gen10 Plus Tri Mode Controller
Version: 52.24.3-4948 **(Recommended)**
Filename: HPE_MR416i-a_Gen10P_52.24.3-4948_A.fwpkg

Important Note!

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

Fixes

- Fix a00127934en_us: HPE ProLiant Gen10 Plus Servers - Unable to Switch From LKM to EKM With MR Controllers When Boot Time Password is Set
- Fix an issue that Sanitize Block Erase on NVMe drive along with shutdown sequence may cause assertion in firmware.
- Fix an issue that GET Volume query from REST client may fail when multiple Volumes are configured on the controller
- Fix an issue that firmware throws error when setting WCE (Disk Write Cache) = 0 for JBOD drive.
- Fix an issue that HDD sensor shows temperature on 14-HD Max when there is no drive installed.
- Fix an issue that HII page may hang while there is pinned cache then do drives initialization and View Server Profile.
- Fix a rare issue that controller may not getting discovered when there is power loss during cache restoration from a previous power loss.
- Fix an issue that controller may hang and Online Controller Reset is triggered after running "storcli /cx set debug reset all" and then "storcli /cx get snapdump".
- Fix an issue that enable security on logical drive may enable security on other unrelated drives which were configured as Dedicated Spare drive for other secured logical drive before.
- Fix an issue that drive running sanitize overwrite may become Unconfigured Bad Unsupported after a cold boot
- Fix a rare issue that firmware may hit assertion failure when a drive causes IO issue and fails.
- Fix an issue that IML 1906 may be incorrectly logged when doing config clear and reboot.
- Fix an issue that NVMe drives may move to Unconfigured Bad state from Unconfigured Good during driver unload-reload.
- Fix an issue that SPDM GET_MEASUREMENTS command signature verification is failing at iLO

Enhancements

- DMTF PLDM Redfish Device Enablement enhancements
  - Support Volume Creation and Deletion by the following Redfish requests
    - POST VolumeCollection
    - DELETE Volume
    - GET Volume Capabilities
  - Added support for the following Redfish ACTION requests:
    - POST Storage.ResetToDefaults
    - POST Volume.Initialize
    - POST Drive.SecureErase

- Added support for Redfish PATCH requests for the following properties:
    - PATCH Volume.DedicatedSpareDrives
    - PATCH Volume.DisplayName
    - PATCH Volume.ReadCachePolicy
    - PATCH Volume.WriteCachePolicy
    - PATCH Drive.HotspareType
    - PATCH Drive.LocationIndicatorActive
    - PATCH Drive.WriteCacheEnabled
- Support DMTF PLDM firmware update for drive

Firmware Package - HPE MR416i-p Gen10 Plus Tri Mode Controller with Gen10 and Gen10 Plus servers
Version: 52.24.3-4948 **(Recommended)**
Filename: HPE_MR416i-p_Gen10P_52.24.3-4948_A.fwpkg

Important Note!

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

Fixes

- Fix a00127934en_us: HPE ProLiant Gen10 Plus Servers - Unable to Switch From LKM to EKM With MR Controllers When Boot Time Password is Set
- Fix an issue that Sanitize Block Erase on NVMe drive along with shutdown sequence may cause assertion in firmware.
- Fix an issue that GET Volume query from REST client may fail when multiple Volumes are configured on the controller
- Fix an issue that firmware throws error when setting WCE (Disk Write Cache) = 0 for JBOD drive.
- Fix an issue that HDD sensor shows temperature on 14-HD Max when there is no drive installed.
- Fix an issue that HII page may hang while there is pinned cache then do drives initialization and View Server Profile.
- Fix a rare issue that controller may not getting discovered when there is power loss during cache restoration from a previous power loss.
- Fix an issue that controller may hang and Online Controller Reset is triggered after running "storcli /cx set debug reset all" and then "storcli /cx get snapdump".
- Fix an issue that enable security on logical drive may enable security on other unrelated drives which were configured as Dedicated Spare drive for other secured logical drive before.
- Fix an issue that drive running sanitize overwrite may become Unconfigured Bad Unsupported after a cold boot
- Fix a rare issue that firmware may hit assertion failure when a drive causes IO issue and fails.
- Fix an issue that IML 1906 may be incorrectly logged when doing config clear and reboot.
- Fix an issue that NVMe drives may move to Unconfigured Bad state from Unconfigured Good during driver unload-reload.
- Fix an issue that SPDM GET_MEASUREMENTS command signature verification is failing at iLO

Enhancements

- DMTF PLDM Redfish Device Enablement enhancements
    - Support Volume Creation and Deletion by the following Redfish requests
        - POST VolumeCollection
        - DELETE Volume
        - GET Volume Capabilities
    - Added support for the following Redfish ACTION requests:
        - POST Storage.ResetToDefaults
        - POST Volume.Initialize
        - POST Drive.SecureErase
    - Added support for Redfish PATCH requests for the following properties:
        - PATCH Volume.DedicatedSpareDrives
        - PATCH Volume.DisplayName
        - PATCH Volume.ReadCachePolicy
        - PATCH Volume.WriteCachePolicy
        - PATCH Drive.HotspareType
        - PATCH Drive.LocationIndicatorActive
        - PATCH Drive.WriteCacheEnabled
- Support DMTF PLDM firmware update for drive

Firmware Package - HPE SR932i-p Gen10 Plus /SR416i-a Gen10 Plus/SR932i-p Gen11/SR416ie-m Gen11 Controllers
Version: 03.01.23.072 **(Recommended)**
Filename: HPE_SR416_SR932_Gen10P_Gen11_03.01.23.072_A.fwpkg

Fixes

Added Gen11 support

Enhancements

Initial Release

HPE D3600/D3700/D3610/D3710 12Gb SAS Disk Enclosure ROM Flash Component for VMware (ESXi)
Version: 5.04 (G) **(Recommended)**
Filename: CP056719.compsig; CP056719.md5; CP056719.zip

Important Note!

IMPORTANT: Firmware updates must be performed during a system maintenance window, with all I/O to the system halted. In single domain configuration, if user hosts an OS in D3000(or any storage box) and flash the SEPs, it will hang/crash everytime as SmartComponent will reset the SEPs after flash/codeload.

WARNING! Do not power cycle or restart during the firmware update as this can result in loss of capabilities for this unit. It typically takes several minutes for the firmware to load.

NOTE: All firmware flash progress messages are logged to /var/cpq/D3000.log and flash summary is logged to /var/cpq/Component.log.

Prerequisites

IMPORTANT: Firmware updates must be performed during a system maintenance window, with all I/O to the system halted.

WARNING! Do not power cycle or restart during the firmware update as this can result in loss of capabilities for this unit. It typically takes several minutes for the firmware to load.

NOTE: All firmware flash progress messages are logged to /var/cpq/D3000.log and flash summary is logged to /var/cpq/Component.log.

Fixes

The following fixes were incorporated in this version:

- The Enabled-ClusterS2D command now completes successfully when executed on a SATA drive within a D3610 disk enclosure for a NonStop solution.

- The smart carrier, which is the drive case for SAS drives, now authenticates in the D3610/D3710 drive enclosure.

- Added new 7-segment error codes E0 and E1 to report issues with Fan modules A and B, respectively. These new codes only apply to the D3610/D3710 and only display when running firmware 5.04.

- If the storage enclosure processor within the I/O module fails, a hard reset (power down and then power up) is executed to ensure the processor comes back online.

Please refer to the Release Notes for the complete listing of fixes, enhancements, known issues and work-arounds corresponding to this firmware.

Enhancements

Added support of ESXi 8.0 U1

Supported Devices and Features

The D3600 / D3700 / D3610 / D3710 Enclosure can be attached to any of the following HPE Storage Controllers and Host Bus Adapters :

- Smart Array P408e-p Controller
- Smart Array E208e-p Controller

HPE D3600B/D3700B/D3610B/D3710B 12Gb SAS Disk Enclosure ROM Flash Component for VMware (ESXi)
Version: 6.00 (A) **(Recommended)**
Filename: CP056722.compsig; CP056722.md5; CP056722.zip

Important Note!

IMPORTANT: Firmware updates must be performed during a system maintenance window, with all I/O to the system halted. In single domain configuration, if user hosts an OS in D3000B(or any storage box) and flash the SEPs, it will hang/crash everytime as SmartComponent will reset the SEPs after flash/codeload.

WARNING! Do not power cycle or restart during the firmware update as this can result in loss of capabilities for this unit. It typically takes several minutes for the firmware to load.

NOTE: All firmware flash progress messages are logged to /var/cpq/D3000B.log and flash summary is logged to /var/cpq/Component.log.

Prerequisites

IMPORTANT: Firmware updates must be performed during a system maintenance window, with all I/O to the system halted.

WARNING! Do not power cycle or restart during the firmware update as this can result in loss of capabilities for this unit. It typically takes several minutes for the firmware to load.

NOTE: All firmware flash progress messages are logged to /var/cpq/D3000B.log and flash summary is logged to /var/cpq/Component.log.

Fixes

The following fixes were incorporated in this version:

- Code optimization to save memory repo.

- TLB exception seen while doing esp reset when expander reset was in progress.

- Added the psoc 8.93 binary in peripheral images, updated the reveille version numbers.

- Added whole new Delta PS-pmbus code , Updated the ESP version number.

Please refer to the Release Notes for the complete listing of fixes, enhancements, known issues and work-arounds corresponding to this firmware.

Enhancements

Added support of ESXi 8.0 U1

Supported Devices and Features

The D3600B / D3700B / D3610B / D3710B Enclosure can be attached to any of the following HPE Storage Controllers and Host Bus Adapters :

- Smart Array P408e-p Controller
- Smart Array E208e-p Controller

HPE D6020 12Gb SAS Disk Enclosure ROM Flash Component for VMware (ESXi)
Version: 2.74 (N) **(Recommended)**
Filename: CP056725.compsig; CP056725.md5; CP056725.zip

Important Note!

IMPORTANT: Firmware updates must be performed during a system maintenance window, with all I/O to the system halted. In single domain configuration, if user hosts an OS in D6020(or any storage box) and flash the SEPs, it will hang/crash everytime as SmartComponent will reset the SEPs after flash/codeload.

WARNING! Do not power cycle or restart during the firmware update as this can result in loss of capabilities for this unit. It typically takes several minutes for the firmware to load.

NOTE: All firmware flash progress messages are logged to /var/cpq/D6020.log and flash summary is logged to /var/cpq/Component.log.

Prerequisites

IMPORTANT: Firmware updates must be performed during a system maintenance window, with all I/O to the system halted.

WARNING! Do not power cycle or restart during the firmware update as this can result in loss of capabilities for this unit. It typically takes several minutes for the firmware to load.

NOTE: All firmware flash progress messages are logged to /var/cpq/D6020.log and flash summary is logged to /var/cpq/Component.log.

Fixes

The following fixes were incorporated in this version:

- Temperature sensors logic inside gSEP model and SES database
- When an IOM is pulled the surviving IOM reports false critical temperatures

Please refer to the [Release Notes](#) for the complete listing of fixes, enhancements, known issues and work-arounds corresponding to this firmware.

Enhancements

Added support of ESXi 8.0 U1

Supported Devices and Features

The D6020 Enclosure can be attached to any of the following HPE Storage Controllers and Host Bus Adapters :

- Smart Array P408e-p Controller
- Smart Array E208e-p Controller

HPE D8000 12Gb SAS Disk Enclosure ROM Flash Component for VMware (ESXi)
Version: 0130 (B) **(Recommended)**
Filename: CP056728.compsig; CP056728.md5; CP056728.zip

Important Note!

IMPORTANT: Firmware updates must be performed during a system maintenance window, with all I/O to the system halted. In single domain configuration, if user hosts an OS in D8000(or any storage box) and flash the SEPs, it will hang/crash everytime as SmartComponent will reset the SEPs after flash/codeload.

WARNING! Do not power cycle or restart during the firmware update as this can result in loss of capabilities for this unit. It typically takes several minutes for the firmware to load.

NOTE: All firmware flash progress messages are logged to /var/cpq/D8000.log and flash summary is logged to /var/cpq/Component.log.

Prerequisites

IMPORTANT: Firmware updates must be performed during a system maintenance window, with all I/O to the system halted.

WARNING! Do not power cycle or restart during the firmware update as this can result in loss of capabilities for this unit. It typically takes several minutes for the firmware to load.

NOTE: All firmware flash progress messages are logged to /var/cpq/D8000.log and flash summary is logged to /var/cpq/Component.log.

Fixes

The following fixes were incorporated in this version:

- Smart Array reporting "Storage Enclosure FW upgrade Problem Detected".
- PSU version is showing as "No Ver" after inserted the New bel power PSU.
- GEM_5_2 Coverity defect fix.

Please refer to the [Release Notes](#) for the complete listing of fixes, enhancements, known issues and work-arounds corresponding to this firmware.

Enhancements

Added support of ESXi 8.0 U1

Supported Devices and Features

The D8000 Enclosure can be attached to any of the following HPE Storage Controllers and Host Bus Adapters :

- HPE Smart Array P408e-p Controller
- HPE Smart Array E208e-p Controller

Online Firmware Flash for ESXi - HPE Gen10 Plus Boot Controller NS204i-p, NS204i-d, NS204i-t, NS204i-r
Version: 1.0.14.1063 **(Recommended)**
Filename: CP056151.compsig; CP056151.zip

Important Note!

- VMware **7.0u1 is** supported by HPE NS204i-p, NS204i-d, NS204i-t and NS204i-r Gen10+ Boot Controller
- **VMware 7.0 is <u>NOT</u> supported by HPE NS204i-p, NS204i-d, NS204i-t and NS204i-r Gen10+ Boot Controller**
- **This version is the minimum required version for Gen10 Plus device to upgrade to latest FW**

<u>Fixes</u>

Fix known issue on v1055 regarding RDE dictionary broken which will cause unexpected FW upgrading error.

Online ROM Flash Component for VMware ESXi - HPE 12Gb/s SAS Expander Firmware for HPE Smart Array Controllers and HPE HBA Controllers
Version: 5.15 (B) **(Recommended)**
Filename: CP057012.compsig; CP057012.zip

<u>Important Note!</u>

- **Do NOT downgrade FW to previous version if your current expander is 5.10; please upgrade to 5.15 immediately.**

<u>Enhancements</u>

- Support HPE ProLiant DL180 Gen10 Server

Online ROM Flash Component for VMware ESXi - HPE Apollo 4200 Backplane Expander Firmware
Version: 1.79 (E) **(Recommended)**
Filename: CP054456.zip; CP054456_part1.compsig; CP054456_part2.compsig

<u>Important Note!</u>

- <u>Power cycle / cold reboot is required if firmware is upgraded from version 1.03 or earlier.</u>

<u>Enhancements</u>

Support ESXi8.0

Online ROM Flash Component for VMware ESXi - HPE Smart Array P408i-p, P408e-p, P408i-a, E208i-p, E208e-p, E208i-a, P816i-a SR Gen10
Version: 6.22 **(Recommended)**
Filename: CP056495.compsig; CP056495.zip

<u>Enhancements</u>

Initial Release

Online ROM Flash Component for VMware ESXi - HPE Smart Array P408i-p, P408e-p, P408i-a, E208i-p, E208e-p, E208i-a, P816i-a SR Gen10
Version: 5.61 (D) **(Recommended)**
Filename: CP057475.compsig; CP057475.zip

<u>Enhancements</u>

Support Gen10, Gen10 Plus and Gen11 servers

Firmware - Storage Fibre Channel   **[Top](#)**
HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for VMware vSphere 8.0
Version: 2023.09.01 **(Recommended)**
Filename: CP055588.compsig; CP055588.zip

<u>Important Note!</u>

Release notes:

[Broadcom Release notes](#)

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	14.2.589.5	14.2.589.5	14.2.579.0	14.2.566.0
HPE SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	16Gb	14.2.589.5	14.2.589.5	14.2.579.0	14.2.566.0
HPE SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	14.2.589.5	14.2.589.5	14.2.579.0	14.2.566.0
HPE SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	14.2.589.5	14.2.589.5	14.2.579.0	14.2.566.0
HPE SN1610E 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	14.2.589.5	14.2.589.5	14.2.579.0	14.2.566.0
HPE SN1610E 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	14.2.589.5	14.2.589.5	14.2.579.0	14.2.566.0
HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	14.2.589.5	14.2.589.5	14.2.579.0	14.2.566.0
HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	14.2.589.5	14.2.589.5	14.2.579.0	14.2.566.0

Prerequisites

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

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

Enhancements

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	14.2.589.5	14.2.589.5	14.2.579.0	14.2.566.0
HPE SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	16Gb	14.2.589.5	14.2.589.5	14.2.579.0	14.2.566.0
HPE SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	14.2.589.5	14.2.589.5	14.2.579.0	14.2.566.0
HPE SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	14.2.589.5	14.2.589.5	14.2.579.0	14.2.566.0
HPE SN1610E 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	14.2.589.5	14.2.589.5	14.2.579.0	14.2.566.0
HPE SN1610E 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	14.2.589.5	14.2.589.5	14.2.579.0	14.2.566.0
HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	14.2.589.5	14.2.589.5	14.2.579.0	14.2.566.0
HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	14.2.589.5	14.2.589.5	14.2.579.0	14.2.566.0

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

32Gb FC Adapter:

- HPE SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1600E 32Gb Single Port Fibre Channel Host Bus 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

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HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters for VMware vSphere 8.0
Version: 2023.09.01 **(Recommended)**
Filename: CP056122.compsig; CP056122.zip

Important Note!

Release Notes:
[HPE QLogic Adapters Release Notes](#)

This Firmware package contains following firmware versions:

Adapter	Speed	MBI	Firmware	UEFI	Boot Bios
HPE SN1100Q 16GB Dual Port PCIe Fibre Channel Host Bus Adapter	16Gb	02.01.03	9.12.02	7.24	3.64
HPE SN1100Q 16GB Single Port PCIe Fibre Channel Host Bus Adapter	16Gb	02.01.03	9.12.02	7.24	3.64
HPE SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	02.01.03	9.12.02	7.24	3.64
HPE SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	02.01.03	9.12.02	7.24	3.64
HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	02.08.05	09.12.01	7.34	0.0
HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	02.08.05	09.12.01	7.34	0.0
HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	02.08.05	09.12.01	7.34	0.0
HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	02.08.05	09.12.01	7.34	0.0

Fixed the following behavior:

Temperature Misreading: the adapter was reading incorrect reading of the temperature on the HPE SN1610Q 32Gb Fibre Channel Host Bus adapter's Small Form-factor Pluggable. The symptom would result in a temperature spike and potentially reset the system

Enhancements:

Non-disruptive firmware upgrades: non-disruptive firmware updates is enabled and will not require a server reboot to apply.

Prerequisites

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

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

Fixes

Fixed the following behavior:

Temperature Misreading: the adapter was reading incorrect reading of the temperature on the HPE SN1610Q 32Gb Fibre Channel Host Bus adapter's Small Form-factor Pluggable. The symptom would result in a temperature spike and potentially reset the system

Enhancements

This Firmware package contains following firmware versions:

Adapter	Speed	MBI	Firmware	UEFI	Boot Bios
HPE SN1100Q 16GB Dual Port PCIe Fibre Channel Host Bus Adapter	16Gb	02.01.03	9.12.02	7.24	3.64
HPE SN1100Q 16GB Single Port PCIe Fibre Channel Host Bus Adapter	16Gb	02.01.03	9.12.02	7.24	3.64
HPE SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	02.01.03	9.12.02	7.24	3.64
HPE SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	02.01.03	9.12.02	7.24	3.64
HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	02.08.05	09.12.01	7.34	0.0
HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	02.08.05	09.12.01	7.34	0.0
HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	02.08.05	09.12.01	7.34	0.0
HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	02.08.05	09.12.01	7.34	0.0

Non-disruptive firmware upgrades: non-disruptive firmware updates is enabled and will not require a server reboot to apply.

Supported Devices and Features

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

16Gb Fibre Channel Host Bus Adapter:

- HPE SN1100Q 16GB Dual Port PCIe Fibre Channel Host Bus Adapter
- HPE SN1100Q 16GB Single Port PCIe Fibre Channel Host Bus Adapter

32Gb Fibre Channel Host Bus Adapter:

- HPE SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter
- HPE SN1600Q 32Gb Dual 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 Fibre Channel Host Bus Adapter:

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

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Software - Management **[Top](#)**

HPE Agentless Management Bundle Smart Component on ESXi for Gen10 and Gen10 Plus Servers
Version: 2023.07.01 **(Recommended)**
Filename: cp054825.compsig; cp054825.zip

Fixes

Agentless Management Service

- Fixed incorrect NVMe drive information displayed after hot plugging.
- Fixed SSD wear status sudden peak value triggering SNMP trap false alarm.
- Fixed incomplete uninstallation for amscli while upgrading Agentless Management Service.

Enhancements

Agentless Management Service

- Extend network adapter speed support with 20,40, and 100G for CPQNIC MIB cpqNicIfPhysAdapterConfSpeedDuplex OID.

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: 2023.09.00 **(Recommended)**
Filename: cp058423.compsig; cp058423.zip

Enhancements

- Added support for vSphere 8.0U2.

Smart Storage Administrator (SSA) CLI Smart Component for ESXi 8.0 for Gen10/Gen10 Plus/Gen11 Controllers
Version: 2023.10.01 **(Recommended)**
Filename: cp055680.compsig; cp055680.zip

Enhancements

Initial Release

Software - Storage Controller **[Top](#)**

HPE MegaRAID Storage Administrator StorCLI for VMware8.0 (For Gen10 Plus and Gen11 Controllers)
Version: 2023.05.01 (C) **(Recommended)**
Filename: cp057859.compsig; cp057859.zip

Enhancements

Enhanced HPE ESXi8.0 storcli to use the esxcli plugin
- Support control override Slow Array Thresholds logic. Use the following commands to configure or show the setting.
    - storcli /cx set overrideSlowArrayThresholds=<on|off> [force]
    - storcli /cx show overrideSlowArrayThresholds
- Support HPE ML30 and DL20 Gen11 server.

Software - Storage Fibre Channel

HPE QLogic Fibre Channel driver component for VMware vSphere 8.0
Version: 2023.09.01 **(Recommended)**
Filename: cp055604.compsig; cp055604.zip

Important Note!

Release Notes:
[HPE QLogic Adapters Release Notes](#)

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

Prerequisites

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

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

Enhancements

Driver version 5.4.81.2-1

Supported Devices and Features

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

16Gb Fibre Channel Host Bus Adapter:

- HPE SN1100Q 16GB Dual Port PCIe Fibre Channel Host Bus Adapter
- HPE SN1100Q 16GB Single Port PCIe Fibre Channel Host Bus Adapter

32Gb Fibre Channel Host Bus Adapter:

- HPE SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter
- HPE SN1600Q 32Gb Dual 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 Fibre Channel Host Bus Adapter:

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

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Software - System Management

HPE Agentless Management Bundle for ESXi for HPE Gen10 and Gen10 Plus Servers
Version: 701.11.9.5 **(Recommended)**
Filename: amsdComponent_701.11.9.5.16-1_21934955.zip

Fixes

Agentless Management Service

- Fixed incorrect NVMe drive information displayed after hot plugging.
- Fixed SSD wear status sudden peak value triggering SNMP trap false alarm.
- Fixed incomplete uninstallation for amscli while upgrading Agentless Management Service.

Enhancements

Agentless Management Service

- Extend network adapter speed support with 20,40, and 100G for CPQNIC MIB cpqNicIfPhysAdapterConfSpeedDuplex OID.

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

<u>Enhancements</u>

      Supports VMware ESXi 8.0

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