VMware Deliverable Release Notes

Hewlett Packard Enterprise

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

HPE Integrity Superdome X
HPE Superdome Flex

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

VMware OS Support Tool for HPE Synergy

Information on HPE Synergy Software Releases is available at:

HPE Synergy Software Releases - Overview

Gen10 SPP v2023.03.00.00 Release Notes for VMware ESXi 8.0

BIOS (Login Required) - System ROM Top

ROM Flash Firmware Package - HPE Apollo 4200 Gen10/HPE ProLiant XL420 Gen10 (U39) Servers
Version: 2.76_02-09-2023 **(Recommended)**
Filename: U39_2.76_02_09_2023.fwpkg

Important Note!

Important Notes:

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2023.1 guidance.

Deliverable Name:

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

Release Version:

2.76_02-09-2023

Last Recommended or Critical Revision:

2.76_02-09-2023

Previous Revision:

2.72_09-29-2022

Firmware Dependencies:

None

Enhancements/New Features:

Added new System Configuration (RBSU) configuration options that allow enabling and disabling EPP (Energy Performance Preference) when “Workload Profile” sets to “Custom” and “Power Regulator” sets to “OS Control Mode”.

Problems Fixed:

This revision of the System ROM includes the latest revision of the Intel IPU 2023.1 BIOS update which provides Intel's mitigation for BIOS advisory and security vulnerabilities documented as CVE-2022-32231 and CVE-2022-26343. 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 zlib library 1.2.13 update which provides mitigation for and security vulnerabilities documented as CVE-2022-37434. This issue is not unique to HPE servers.

Addressed an issue that system will hang when BIOS tries to print a large IML message on POST screen.

Addressed an issue when system discovers thousands of LUNs and was trying to create thousands of boot options for each LUNs. System cannot add, delete or adjust new boot options on iLO web and RBSU after rebooting. System becomes unstable unless loading manufacture default.

Addressed an issue where some Chinese and Japanese translations were missing in RBSU.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2023.1 guidance.

Firmware Dependencies:

None

Problems Fixed:

This revision of the System ROM includes the latest revision of the Intel IPU 2023.1 BIOS update which provides Intel's mitigation for BIOS advisory and security vulnerabilities documented as CVE-2022-32231 and CVE-2022-26343. 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 zlib library 1.2.13 update which provides mitigation for and security vulnerabilities documented as CVE-2022-37434. This issue is not unique to HPE servers.

Addressed an issue that system will hang when BIOS tries to print a large IML message on POST screen.

Addressed an issue when system discovers thousands of LUNs and was trying to create thousands of boot options for each LUNs. System cannot add, delete or adjust new boot options on iLO web and RBSU after rebooting. System becomes unstable unless loading manufacture default.

Addressed an issue where some Chinese and Japanese translations were missing in RBSU.

Known Issues:

None

Enhancements

Added new System Configuration (RBSU) configuration options that allow enabling and disabling EPP (Energy Performance Preference) when "Workload Profile" sets to "Custom" and "Power Regulator" sets to "OS Control Mode".

ROM Flash Firmware Package - HPE Apollo 4510 Gen10/HPE ProLiant XL450 Gen10 (U40) Servers
Version: 2.76_02-09-2023 **(Recommended)**
Filename: U40_2.76_02_09_2023.fwpkg

Important Note!

Important Notes:

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2023.1 guidance.

Deliverable Name:

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

Release Version:

2.76_02-09-2023

Last Recommended or Critical Revision:

2.76_02-09-2023

Previous Revision:

2.72_09-29-2022

Firmware Dependencies:

None

Enhancements/New Features:

Added new System Configuration (RBSU) configuration options that allow enabling and disabling EPP (Energy Performance Preference) when "Workload Profile" sets to "Custom" and "Power Regulator" sets to "OS Control Mode".

Problems Fixed:

This revision of the System ROM includes the latest revision of the Intel IPU 2023.1 BIOS update which provides Intel's mitigation for BIOS advisory and security vulnerabilities documented as CVE-2022-32231 and CVE-2022-26343. 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 zlib library 1.2.13 update which provides mitigation for and security vulnerabilities documented as CVE-2022-37434. This issue is not unique to HPE servers.

Addressed an issue that system will hang when BIOS tries to print a large IML message on POST screen.

Addressed an issue when system discovers thousands of LUNs and was trying to create thousands of boot options for each LUNs. System cannot add, delete or adjust new boot options on iLO web and RBSU after rebooting. System becomes unstable unless loading manufacture default.

Addressed an issue where some Chinese and Japanese translations were missing in RBSU.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2023.1 guidance.

Firmware Dependencies:

None

Problems Fixed:

This revision of the System ROM includes the latest revision of the Intel IPU 2023.1 BIOS update which provides Intel's mitigation for BIOS advisory and security vulnerabilities documented as CVE-2022-32231 and CVE-2022-26343. 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 zlib library 1.2.13 update which provides mitigation for and security vulnerabilities documented as CVE-2022-37434. This issue is not unique to HPE servers.

Addressed an issue that system will hang when BIOS tries to print a large IML message on POST screen.

Addressed an issue when system discovers thousands of LUNs and was trying to create thousands of boot options for each LUNs. System cannot add, delete or adjust new boot options on iLO web and RBSU after rebooting. System becomes unstable unless loading manufacture default.

Addressed an issue where some Chinese and Japanese translations were missing in RBSU.

Known Issues:

None

Enhancements

Added new System Configuration (RBSU) configuration options that allow enabling and disabling EPP (Energy Performance Preference) when "Workload Profile" sets to "Custom" and "Power Regulator" sets to "OS Control Mode".

ROM Flash Firmware Package - HPE ProLiant DL160 Gen10/DL180 Gen10 (U31) Servers
Version: 2.76_02-09-2023 **(Recommended)**
Filename: U31_2.76_02_09_2023.fwpkg

Important Note!

Important Notes:

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2023.1 guidance.

Deliverable Name:

HPE ProLiant DL160 Gen10/DL180 Gen10 System ROM - U31

Release Version:

2.76_02-09-2023

Last Recommended or Critical Revision:

2.76_02-09-2023

Previous Revision:

2.72_09-29-2022

Firmware Dependencies:

None

Enhancements/New Features:

Added new System Configuration (RBSU) configuration options that allow enabling and disabling EPP (Energy Performance Preference) when "Workload Profile" sets to "Custom" and "Power Regulator" sets to "OS Control Mode".

Problems Fixed:

This revision of the System ROM includes the latest revision of the Intel IPU 2023.1 BIOS update which provides Intel's mitigation for BIOS advisory and security vulnerabilities documented as CVE-2022-32231 and CVE-2022-26343. 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 zlib library 1.2.13 update which provides mitigation for and security vulnerabilities documented as CVE-2022-37434. This issue is not unique to HPE servers.

Addressed an issue that system will hang when BIOS tries to print a large IML message on POST screen.

Addressed an issue when system discovers thousands of LUNs and was trying to create thousands of boot options for each LUNs. System cannot add, delete or adjust new boot options on iLO web and RBSU after rebooting. System becomes unstable unless loading manufacture default.

Addressed an issue where some Chinese and Japanese translations were missing in RBSU.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2023.1 guidance.

Firmware Dependencies:

None

Problems Fixed:

This revision of the System ROM includes the latest revision of the Intel IPU 2023.1 BIOS update which provides Intel's mitigation for BIOS advisory and security vulnerabilities documented as CVE-2022-32231 and CVE-2022-26343. 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 zlib library 1.2.13 update which provides mitigation for and security vulnerabilities documented as CVE-2022-37434. This issue is not unique to HPE servers.

Addressed an issue that system will hang when BIOS tries to print a large IML message on POST screen.

Addressed an issue when system discovers thousands of LUNs and was trying to create thousands of boot options for each LUNs. System cannot add, delete or adjust new boot options on iLO web and RBSU after rebooting. System becomes unstable unless loading manufacture default.

Addressed an issue where some Chinese and Japanese translations were missing in RBSU.

Known Issues:

None

Enhancements

Added new System Configuration (RBSU) configuration options that allow enabling and disabling EPP (Energy Performance Preference) when "Workload Profile" sets to "Custom" and "Power Regulator" sets to "OS Control Mode".

ROM Flash Firmware Package - HPE ProLiant DL20 Gen10 (U43) Servers
Version: 2.68_01-12-2023 **(Recommended)**
Filename: U43_2.68_01_12_2023.fwpkg

Important Note!

Important Notes:

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2023.1 guidance.

Deliverable Name:

HPE ProLiant DL20 Gen10 System ROM - U43

Release Version:

2.68_01-12-2023

Last Recommended or Critical Revision:

2.68_01-12-2023

Previous Revision:

2.64_10-13-2022

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

This revision of the System ROM includes the latest revision of the Intel IPU 2023.1 BIOS update which provides Intel's mitigation for BIOS advisory and security vulnerabilities documented as CVE-2022-33894 and CVE-2022-26837. 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 zlib library 1.2.13 update which provides mitigation for security vulnerabilities documented as CVE-2022-37434.

Addressed an issue that system will hang when BIOS tries to print a large IML message on POST screen.

Addressed an issue when system discovers thousands of LUNs and was trying to create thousands of boot options for each LUN. System cannot add, delete or adjust new boot options on iLO web and RBSU after rebooting. System becomes unstable unless loading manufacture defaults.

Addressed an issue where some Chinese and Japaneses translations were missing from RBSU.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2023.1 guidance.

Firmware Dependencies:

None

Problems Fixed:

This revision of the System ROM includes the latest revision of the Intel IPU 2023.1 BIOS update which provides Intel's mitigation for BIOS advisory and security vulnerabilities documented as CVE-2022-33894 and CVE-2022-26837. 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 zlib library 1.2.13 update which provides mitigation for security vulnerabilities documented as CVE-2022-37434.

Addressed an issue that system will hang when BIOS tries to print a large IML message on POST screen.

Addressed an issue when system discovers thousands of LUNs and was trying to create thousands of boot options for each LUN. System cannot add, delete or adjust new boot options on iLO web and RBSU after rebooting. System becomes unstable unless loading manufacture defaults.

Addressed an issue where some Chinese and Japaneses translations were missing from RBSU.

Known Issues:

None

ROM Flash Firmware Package - HPE Proliant DL20 Gen10 Plus Servers
Version: 1.68_01-12-2023 **(Recommended)**
Filename: U60_1.68_01_12_2023.fwpkg

Important Note!

Important Notes:

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2023.1 guidance.

Deliverable Name:

HPE ProLiant DL20 Gen10 Plus System ROM - U60

Release Version:

1.68_01-12-2023

Last Recommended or Critical Revision:

1.68_01-12-2023

Previous Revision:

1.64_10-20-2022

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

This revision of the System ROM includes the latest revision of the Intel IPU 2023.1 BIOS update which provides Intel's mitigation for BIOS advisory and security vulnerabilities documented as CVE-2022-26837, CVE-2022-38090 and CVE-2022-30704. 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 zlib library 1.2.13 update which provides mitigation for security vulnerabilities documented as CVE-2022-37434.

This revision of the System ROM includes the revision of the OpenSSL library 1.1.1s update which provides mitigation for security vulnerabilities documented as CVE-2022-2097.

Addressed an issue where RBSU PCI device information page does not display the Intel VROC SATA firmware firmware version correctly.

Addressed an issue where NVMe drive info cannot display properly in iLO web when PCH VMD is enabled.

Addressed an issue when system discovers thousands of LUNs and was trying to create thousands of boot options for each LUNs. System cannot add, delete or adjust new boot options on iLO web and RBSU after rebooting. System becomes unstable unless loading manufacture default.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2023.1 guidance.

Firmware Dependencies:

None

Problems Fixed:

This revision of the System ROM includes the latest revision of the Intel IPU 2023.1 BIOS update which provides Intel's mitigation for BIOS advisory and security vulnerabilities documented as CVE-2022-26837, CVE-2022-38090 and CVE-2022-30704. 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 zlib library 1.2.13 update which provides mitigation for security vulnerabilities documented as CVE-2022-37434.

This revision of the System ROM includes the revision of the OpenSSL library 1.1.1s update which provides mitigation for security vulnerabilities documented as CVE-2022-2097.

Addressed an issue where RBSU PCI device information page does not display the Intel VROC SATA firmware firmware version correctly.

Addressed an issue where NVMe drive info cannot display properly in iLO web when PCH VMD is enabled.

Addressed an issue when system discovers thousands of LUNs and was trying to create thousands of boot options for each LUNs. System cannot add, delete or adjust new boot options on iLO web and RBSU after rebooting. System becomes unstable unless loading manufacture default.

Known Issues:

None

ROM Flash Firmware Package - HPE ProLiant DL325 Gen10 (A41) Servers
Version: 2.68_02-02-2023 **(Recommended)**
Filename: A41_2.68_02_02_2023.fwpkg

Important Note!

Important Notes:

None

Deliverable Name:

HPE ProLiant DL325 Gen10 System ROM - A41

Release Version:

2.68_02-02-2023

Last Recommended or Critical Revision:

2.68_02-02-2023

Previous Revision:

2.64_11-17-2022

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

This revision of the System ROM updates zlib to 1.2.13 which provides mitigation for BIOS security vulnerability documented as CVE-2022-37434.

(https://nvd.nist.gov/vuln/detail/CVE-2022-37434). This security vulnerability is documented in the CVE report site. This issue is not unique to HPE servers.

Addressed an issue where some Chinese translation is missing from RBSU.

Known Issues:

None

Fixes

Important Notes:

None

Firmware Dependencies:

None

Problems Fixed:

This revision of the System ROM updates zlib to 1.2.13 which provides mitigation for BIOS security vulnerability documented as CVE-2022-37434.

(https://nvd.nist.gov/vuln/detail/CVE-2022-37434). This security vulnerability is documented in the CVE report site. This issue is not unique to HPE servers.

Addressed an issue where some Chinese translation is missing from RBSU.

Known Issues:

None

ROM Flash Firmware Package - HPE ProLiant DL360 Gen10 (U32) Servers
Version: 2.76_02-09-2023 **(Recommended)**

Filename: U32_2.76_02_09_2023.fwpkg

Important Note!

Important Notes:

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2023.1 guidance.

Deliverable Name:

HPE ProLiant DL360 Gen10 System ROM - U32

Release Version:

2.76_02-09-2023

Last Recommended or Critical Revision:

2.76_02-09-2023

Previous Revision:

2.72_09-29-2022

Firmware Dependencies:

None

Enhancements/New Features:

Added new System Configuration (RBSU) configuration options that allow enabling and disabling EPP (Energy Performance Preference) when "Workload Profile" sets to "Custom" and "Power Regulator" sets to "OS Control Mode".

Problems Fixed:

This revision of the System ROM includes the latest revision of the Intel IPU 2023.1 BIOS update which provides Intel's mitigation for BIOS advisory and security vulnerabilities documented as CVE-2022-32231 and CVE-2022-26343. 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 zlib library 1.2.13 update which provides mitigation for and security vulnerabilities documented as CVE-2022-37434. This issue is not unique to HPE servers.

Addressed an issue that system will hang when BIOS tries to print a large IML message on POST screen.

Addressed an issue when system discovers thousands of LUNs and was trying to create thousands of boot options for each LUNs. System cannot add, delete or adjust new boot options on iLO web and RBSU after rebooting. System becomes unstable unless loading manufacture default.

Addressed an issue where some Chinese and Japanese translations were missing in RBSU.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2023.1 guidance.

Firmware Dependencies:

None

Problems Fixed:

This revision of the System ROM includes the latest revision of the Intel IPU 2023.1 BIOS update which provides Intel's mitigation for BIOS advisory and security vulnerabilities documented as CVE-2022-32231 and CVE-2022-26343. 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 zlib library 1.2.13 update which provides mitigation for and security vulnerabilities documented as CVE-2022-37434. This issue is not unique to HPE servers.

Addressed an issue that system will hang when BIOS tries to print a large IML message on POST screen.

Addressed an issue when system discovers thousands of LUNs and was trying to create thousands of boot options for each LUNs. System cannot add, delete or adjust new boot options on iLO web and RBSU after rebooting. System becomes unstable unless loading manufacture default.

Addressed an issue where some Chinese and Japanese translations were missing in RBSU.

Known Issues:

None

Enhancements

Added new System Configuration (RBSU) configuration options that allow enabling and disabling EPP (Energy Performance Preference) when "Workload Profile" sets to "Custom" and "Power Regulator" sets to "OS Control Mode".

ROM Flash Firmware Package - HPE ProLiant DL380 Gen10 (U30) Servers
Version: 2.76_02-09-2023 **(Recommended)**
Filename: U30_2.76_02_09_2023.fwpkg

Important Note!

Important Notes:

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2023.1 guidance.

Deliverable Name:

HPE DL380 Gen10 System ROM - U30

Release Version:

2.76_02-09-2023

Last Recommended or Critical Revision:

2.76_02-09-2023

Previous Revision:

2.72_09-29-2022

Firmware Dependencies:

None

Enhancements/New Features:

Added new System Configuration (RBSU) configuration options that allow enabling and disabling EPP (Energy Performance Preference) when "Workload Profile" sets to "Custom" and "Power Regulator" sets to "OS Control Mode".

Problems Fixed:

This revision of the System ROM includes the latest revision of the Intel IPU 2023.1 BIOS update which provides Intel's mitigation for BIOS advisory and security vulnerabilities documented as CVE-2022-32231 and CVE-2022-26343. 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 zlib library 1.2.13 update which provides mitigation for and security vulnerabilities documented as CVE-2022-37434. This issue is not unique to HPE servers.

Addressed an issue that system will hang when BIOS tries to print a large IML message on POST screen.

Addressed an issue when system discovers thousands of LUNs and was trying to create thousands of boot options for each LUNs. System cannot add, delete or adjust new boot options on iLO web and RBSU after rebooting. System becomes unstable unless loading manufacture default.

Addressed an issue where some Chinese and Japanese translations were missing in RBSU.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2023.1 guidance.

Firmware Dependencies:

None

Problems Fixed:

This revision of the System ROM includes the latest revision of the Intel IPU 2023.1 BIOS update which provides Intel's mitigation

for BIOS advisory and security vulnerabilities documented as CVE-2022-32231 and CVE-2022-26343. 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 zlib library 1.2.13 update which provides mitigation for and security vulnerabilities documented as CVE-2022-37434. This issue is not unique to HPE servers.

Addressed an issue that system will hang when BIOS tries to print a large IML message on POST screen.

Addressed an issue when system discovers thousands of LUNs and was trying to create thousands of boot options for each LUNs. System cannot add, delete or adjust new boot options on iLO web and RBSU after rebooting. System becomes unstable unless loading manufacture default.

Addressed an issue where some Chinese and Japanese translations were missing in RBSU.

Known Issues:

None

Enhancements

Added new System Configuration (RBSU) configuration options that allow enabling and disabling EPP (Energy Performance Preference) when "Workload Profile" sets to "Custom" and "Power Regulator" sets to "OS Control Mode".

ROM Flash Firmware Package - HPE ProLiant DL385 Gen10 (A40) Servers
Version: 2.68_02-02-2023 **(Recommended)**
Filename: A40_2.68_02_02_2023.fwpkg

Important Note!

Important Notes:

None

Deliverable Name:

HPE DL385 Gen10 System ROM - A40

Release Version:

2.68_02-02-2023

Last Recommended or Critical Revision:

2.68_02-02-2023

Previous Revision:

2.64_11-17-2022

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

This revision of the System ROM updates zlib to 1.2.13 which provides mitigation for BIOS security vulnerability documented as CVE-2022-37434.

(https://nvd.nist.gov/vuln/detail/CVE-2022-37434). This security vulnerability is documented in the CVE report site. This issue is not unique to HPE servers.

Addressed an issue where some Chinese translation is missing from RBSU.

Known Issues:

None

Fixes

Important Notes:

None

Firmware Dependencies:

None

Problems Fixed:

This revision of the System ROM updates zlib to 1.2.13 which provides mitigation for BIOS security vulnerability documented as CVE-2022-37434.

(https://nvd.nist.gov/vuln/detail/CVE-2022-37434). This security vulnerability is documented in the CVE report site. This issue is not unique to HPE servers.

Addressed an issue where some Chinese translation is missing from RBSU.

Known Issues:

None

ROM Flash Firmware Package - HPE ProLiant DL560 Gen10/DL580 Gen10 (U34) Servers
Version: 2.76_02-09-2023 **(Recommended)**
Filename: U34_2.76_02_09_2023.fwpkg

Important Note!

Important Notes:

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2023.1 guidance.

Deliverable Name:

HPE ProLiant DL560 Gen10/DL580 Gen10 System ROM - U34

Release Version:

2.76_02-09-2023

Last Recommended or Critical Revision:

2.76_02-09-2023

Previous Revision:

2.72_09-29-2022

Firmware Dependencies:

None

Enhancements/New Features:

Added new System Configuration (RBSU) configuration options that allow enabling and disabling EPP (Energy Performance Preference) when “Workload Profile” sets to “Custom” and “Power Regulator” sets to “OS Control Mode”.

Problems Fixed:

This revision of the System ROM includes the latest revision of the Intel IPU 2023.1 BIOS update which provides Intel's mitigation for BIOS advisory and security vulnerabilities documented as CVE-2022-32231 and CVE-2022-26343. 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 zlib library 1.2.13 update which provides mitigation for and security vulnerabilities documented as CVE-2022-37434. This issue is not unique to HPE servers.

Addressed an issue that system will hang when BIOS tries to print a large IML message on POST screen.

Addressed an issue when system discovers thousands of LUNs and was trying to create thousands of boot options for each LUNs. System cannot add, delete or adjust new boot options on iLO web and RBSU after rebooting. System becomes unstable unless loading manufacture default.

Addressed an issue where some Chinese and Japanese translations were missing in RBSU.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2023.1 guidance.

Firmware Dependencies:

None

Problems Fixed:

This revision of the System ROM includes the latest revision of the Intel IPU 2023.1 BIOS update which provides Intel's mitigation for BIOS advisory and security vulnerabilities documented as CVE-2022-32231 and CVE-2022-26343. This security vulnerability is documented in the CVE report site. This issue is not unique to HPE servers.

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Addressed an issue where some Chinese and Japanese translations were missing in RBSU.

Known Issues:

None

Enhancements

Added new System Configuration (RBSU) configuration options that allow enabling and disabling EPP (Energy Performance Preference) when "Workload Profile" sets to "Custom" and "Power Regulator" sets to "OS Control Mode".

ROM Flash Firmware Package - HPE ProLiant MicroServer Gen10 Plus v2 (U64) Servers
Version: 1.68_01-12-2023 **(Recommended)**
Filename: U64_1.68_01_12_2023.fwpkg

Important Note!

Important Notes:

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2023.1 guidance.

Deliverable Name:

HPE ProLiant MicroServer Gen10 Plus v2 System ROM - U64

Release Version:

1.68_01-12-2023

Last Recommended or Critical Revision:

1.68_01-12-2023

Previous Revision:

1.64_10-20-2022

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

This revision of the System ROM includes the latest revision of the Intel IPU 2023.1 BIOS update which provides Intel's mitigation for BIOS advisory and security vulnerabilities documented as CVE-2022-26837, CVE-2022-38090 and CVE-2022-30704. 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 zlib library 1.2.13 update which provides mitigation for security vulnerabilities documented as CVE-2022-37434.

This revision of the System ROM includes the revision of the OpenSSL library 1.1.1s update which provides mitigation for security vulnerabilities documented as CVE-2022-2097.

Addressed an issue where RBSU PCI device information page does not display the Intel VROC SATA firmware firmware version correctly.

Addressed an issue where NVMe drive info cannot display properly in iLO web when PCH VMD is enabled.

Addressed an issue when system discovers thousands of LUNs and was trying to create thousands of boot options for each LUNs. System cannot add, delete or adjust new boot options on iLO web and RBSU after rebooting. System becomes unstable unless loading manufacture default.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2023.1 guidance.

Firmware Dependencies:

None

Problems Fixed:

This revision of the System ROM includes the latest revision of the Intel IPU 2023.1 BIOS update which provides Intel's mitigation for BIOS advisory and security vulnerabilities documented as CVE-2022-26837, CVE-2022-38090 and CVE-2022-30704. 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 zlib library 1.2.13 update which provides mitigation for security vulnerabilities documented as CVE-2022-37434.

This revision of the System ROM includes the revision of the OpenSSL library 1.1.1s update which provides mitigation for security vulnerabilities documented as CVE-2022-2097.

Addressed an issue where RBSU PCI device information page does not display the Intel VROC SATA firmware firmware version correctly.

Addressed an issue where NVMe drive info cannot display properly in iLO web when PCH VMD is enabled.

Addressed an issue when system discovers thousands of LUNs and was trying to create thousands of boot options for each LUNs. System cannot add, delete or adjust new boot options on iLO web and RBSU after rebooting. System becomes unstable unless loading manufacture default.

Known Issues:

None

ROM Flash Firmware Package - HPE ProLiant ML110 Gen10 (U33) Servers
Version: 2.76_02-09-2023 **(Recommended)**
Filename: U33_2.76_02_09_2023.fwpkg

Important Note!

Important Notes:

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2023.1 guidance.

Deliverable Name:

HPE ProLiant ML110 Gen10 System ROM - U33

Release Version:

2.76_02-09-2023

Last Recommended or Critical Revision:

2.76_02-09-2023

Previous Revision:

2.72_09-29-2022

Firmware Dependencies:

None

Enhancements/New Features:

Added new System Configuration (RBSU) configuration options that allow enabling and disabling EPP (Energy Performance Preference) when “Workload Profile” sets to “Custom” and “Power Regulator” sets to “OS Control Mode”.

Problems Fixed:

This revision of the System ROM includes the latest revision of the Intel IPU 2023.1 BIOS update which provides Intel's mitigation for BIOS advisory and security vulnerabilities documented as CVE-2022-32231 and CVE-2022-26343. 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 zlib library 1.2.13 update which provides mitigation for and security vulnerabilities documented as CVE-2022-37434. This issue is not unique to HPE servers.

Addressed an issue that system will hang when BIOS tries to print a large IML message on POST screen.

Addressed an issue when system discovers thousands of LUNs and was trying to create thousands of boot options for each LUNs. System cannot add, delete or adjust new boot options on iLO web and RBSU after rebooting. System becomes unstable unless loading manufacture default.

Addressed an issue where some Chinese and Japanese translations were missing in RBSU.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2023.1 guidance.

Firmware Dependencies:

None

Problems Fixed:

This revision of the System ROM includes the latest revision of the Intel IPU 2023.1 BIOS update which provides Intel's mitigation for BIOS advisory and security vulnerabilities documented as CVE-2022-32231 and CVE-2022-26343. 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 zlib library 1.2.13 update which provides mitigation for and security vulnerabilities documented as CVE-2022-37434. This issue is not unique to HPE servers.

Addressed an issue that system will hang when BIOS tries to print a large IML message on POST screen.

Addressed an issue when system discovers thousands of LUNs and was trying to create thousands of boot options for each LUNs. System cannot add, delete or adjust new boot options on iLO web and RBSU after rebooting. System becomes unstable unless loading manufacture default.

Addressed an issue where some Chinese and Japanese translations were missing in RBSU.

Known Issues:

None

Enhancements

Added new System Configuration (RBSU) configuration options that allow enabling and disabling EPP (Energy Performance Preference) when “Workload Profile” sets to “Custom” and “Power Regulator” sets to “OS Control Mode”.

ROM Flash Firmware Package - HPE ProLiant ML30 Gen10 (U44) Servers
Version: 2.68_01-12-2023 **(Recommended)**
Filename: U44_2.68_01_12_2023.fwpkg

Important Note!

Important Notes:

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2023.1 guidance.

Deliverable Name:

HPE ProLiant ML30 Gen10 System ROM - U44

Release Version:

2.68_01-12-2023

Last Recommended or Critical Revision:

2.68_01-12-2023

Previous Revision:

2.64_10-13-2022

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

This revision of the System ROM includes the latest revision of the Intel IPU 2023.1 BIOS update which provides Intel's mitigation for BIOS advisory and security vulnerabilities documented as CVE-2022-33894 and CVE-2022-26837. 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 zlib library 1.2.13 update which provides mitigation for security vulnerabilities documented as CVE-2022-37434.

Addressed an issue that system will hang when BIOS tries to print a large IML message on POST screen.

Addressed an issue when system discovers thousands of LUNs and was trying to create thousands of boot options for each LUN. System cannot add, delete or adjust new boot options on iLO web and RBSU after rebooting. System becomes unstable unless loading manufacture defaults.

Addressed an issue where some Chinese and Japaneses translations were missing from RBSU.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2023.1 guidance.

Firmware Dependencies:

None

Problems Fixed:

This revision of the System ROM includes the latest revision of the Intel IPU 2023.1 BIOS update which provides Intel's mitigation for BIOS advisory and security vulnerabilities documented as CVE-2022-33894 and CVE-2022-26837. 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 zlib library 1.2.13 update which provides mitigation for security vulnerabilities documented as CVE-2022-37434.

Addressed an issue that system will hang when BIOS tries to print a large IML message on POST screen.

Addressed an issue when system discovers thousands of LUNs and was trying to create thousands of boot options for each LUN. System cannot add, delete or adjust new boot options on iLO web and RBSU after rebooting. System becomes unstable unless loading manufacture defaults.

Addressed an issue where some Chinese and Japaneses translations were missing from RBSU.

Known Issues:

None

ROM Flash Firmware Package - HPE ProLiant ML30 Gen10 Plus Servers
Version: 1.68_01-12-2023 **(Recommended)**
Filename: U61_1.68_01_12_2023.fwpkg

Important Note!

Important Notes:

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2023.1 guidance.

Deliverable Name:

HPE ProLiant ML30 Gen10 Plus System ROM - U61

Release Version:

1.68_01-12-2023

Last Recommended or Critical Revision:

1.68_01-12-2023

Previous Revision:

1.64_10-20-2022

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

This revision of the System ROM includes the latest revision of the Intel IPU 2023.1 BIOS update which provides Intel's mitigation for BIOS advisory and security vulnerabilities documented as CVE-2022-26837, CVE-2022-38090 and CVE-2022-30704. 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 zlib library 1.2.13 update which provides mitigation for security vulnerabilities documented as CVE-2022-37434.

This revision of the System ROM includes the revision of the OpenSSL library 1.1.1s update which provides mitigation for security vulnerabilities documented as CVE-2022-2097.

Addressed an issue where RBSU PCI device information page does not display the Intel VROC SATA firmware firmware version correctly.

Addressed an issue where NVMe drive info cannot display properly in iLO web when PCH VMD is enabled.

Addressed an issue when system discovers thousands of LUNs and was trying to create thousands of boot options for each LUNs. System cannot add, delete or adjust new boot options on iLO web and RBSU after rebooting. System becomes unstable unless loading manufacture default.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2023.1 guidance.

Firmware Dependencies:

None

Problems Fixed:

This revision of the System ROM includes the latest revision of the Intel IPU 2023.1 BIOS update which provides Intel's mitigation for BIOS advisory and security vulnerabilities documented as CVE-2022-26837, CVE-2022-38090 and CVE-2022-30704. 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 zlib library 1.2.13 update which provides mitigation for security vulnerabilities documented as CVE-2022-37434.

This revision of the System ROM includes the revision of the OpenSSL library 1.1.1s update which provides mitigation for security vulnerabilities documented as CVE-2022-2097.

Addressed an issue where RBSU PCI device information page does not display the Intel VROC SATA firmware firmware version correctly.

Addressed an issue where NVMe drive info cannot display properly in iLO web when PCH VMD is enabled.

Addressed an issue when system discovers thousands of LUNs and was trying to create thousands of boot options for each LUNs. System cannot add, delete or adjust new boot options on iLO web and RBSU after rebooting. System becomes unstable unless loading manufacture default.

Known Issues:

None

ROM Flash Firmware Package - HPE ProLiant ML350 Gen10 (U41) Servers
Version: 2.76_02-09-2023 **(Recommended)**
Filename: U41_2.76_02_09_2023.fwpkg

Important Note!

Important Notes:

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2023.1 guidance.

Deliverable Name:

HPE ProLiant ML350 Gen10 System ROM - U41

Release Version:

2.76_02-09-2023

Last Recommended or Critical Revision:

2.76_02-09-2023

Previous Revision:

2.72_09-29-2022

Firmware Dependencies:

None

Enhancements/New Features:

Added new System Configuration (RBSU) configuration options that allow enabling and disabling EPP (Energy Performance Preference) when "Workload Profile" sets to "Custom" and "Power Regulator" sets to "OS Control Mode".

Problems Fixed:

This revision of the System ROM includes the latest revision of the Intel IPU 2023.1 BIOS update which provides Intel's mitigation for BIOS advisory and security vulnerabilities documented as CVE-2022-32231 and CVE-2022-26343. 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 zlib library 1.2.13 update which provides mitigation for and security vulnerabilities documented as CVE-2022-37434. This issue is not unique to HPE servers.

Addressed an issue that system will hang when BIOS tries to print a large IML message on POST screen.

Addressed an issue when system discovers thousands of LUNs and was trying to create thousands of boot options for each LUNs. System cannot add, delete or adjust new boot options on iLO web and RBSU after rebooting. System becomes unstable unless loading manufacture default.

Addressed an issue where some Chinese and Japanese translations were missing in RBSU.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2023.1 guidance.

Firmware Dependencies:

None

Problems Fixed:

This revision of the System ROM includes the latest revision of the Intel IPU 2023.1 BIOS update which provides Intel's mitigation for BIOS advisory and security vulnerabilities documented as CVE-2022-32231 and CVE-2022-26343. 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 zlib library 1.2.13 update which provides mitigation for and security vulnerabilities documented as CVE-2022-37434. This issue is not unique to HPE servers.

Addressed an issue that system will hang when BIOS tries to print a large IML message on POST screen.

Addressed an issue when system discovers thousands of LUNs and was trying to create thousands of boot options for each LUNs. System cannot add, delete or adjust new boot options on iLO web and RBSU after rebooting. System becomes unstable unless loading manufacture default.

Addressed an issue where some Chinese and Japanese translations were missing in RBSU.

Known Issues:

None

Enhancements

Added new System Configuration (RBSU) configuration options that allow enabling and disabling EPP (Energy Performance Preference) when "Workload Profile" sets to "Custom" and "Power Regulator" sets to "OS Control Mode".

ROM Flash Universal Firmware Package - HPE ProLiant DL325/DL325 v2/DL345 Gen10 Plus (A43) Servers
Version: 2.68_02-06-2023 **(Recommended)**
Filename: A43_2.68_02_06_2023.fwpkg

Important Note!

Important Notes:

None

Deliverable Name:

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

Release Version:

2.68_02-06-2023

Last Recommended or Critical Revision:

2.68_02-06-2023

Previous Revision:

2.64_11-17-2022

Firmware Dependencies:

None

Enhancements/New Features:

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

/redfish/v1/systems/1/bios/settings/CustomPstate0

/redfish/v1/systems/1/bios/settings/Pstate0Frequency

Problems Fixed:

This revision of the System ROM updates zlib to 1.2.13 which provides mitigation for BIOS security vulnerability documented as CVE-2022-37434.

(https://nvd.nist.gov/vuln/detail/CVE-2022-37434). This security vulnerability is documented in the CVE report site.

This revision of the System ROM includes the v1.1.1s openSSL which provides mitigation for BIOS security vulnerability documented as CVE-2022-2097.

(https://nvd.nist.gov/vuln/detail/CVE-2022-2097). This security vulnerability is documented in the CVE report site.

Known Issues:

None

Fixes

Important Notes:

None

Firmware Dependencies:

None

Problems Fixed:

This revision of the System ROM updates zlib to 1.2.13 which provides mitigation for BIOS security vulnerability documented as CVE-2022-37434.

(https://nvd.nist.gov/vuln/detail/CVE-2022-37434). This security vulnerability is documented in the CVE report site.

This revision of the System ROM includes the v1.1.1s openSSL which provides mitigation for BIOS security vulnerability documented as CVE-2022-2097.

(https://nvd.nist.gov/vuln/detail/CVE-2022-2097). This security vulnerability is documented in the CVE report site.

Known Issues:

None

Enhancements

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

/redfish/v1/systems/1/bios/settings/CustomPstate0

/redfish/v1/systems/1/bios/settings/Pstate0Frequency

ROM Flash Universal Firmware Package - HPE ProLiant DL360/DL380 Gen10 Plus (U46) Servers
Version: 1.72_02-02-2023 **(Recommended)**
Filename: U46_1.72_02_02_2023.fwpkg

Important Note!

Important Notes:

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2023.1 guidance.

Deliverable Name:

HPE DL360 Gen10 Plus/DL380 Gen10 Plus System ROM - U46

Release Version:

1.72_02-02-2023

Last Recommended or Critical Revision:

1.72_02-02-2023

Previous Revision:

1.68_10-27-2022

Firmware Dependencies:

None

Enhancements/New Features:

Added "Important: Intel(R) NVMe and Intel(R) VROC are not supported when the Boot Mode is configured in Legacy BIOS Mode." message into the RBSU help description for Intel NVMe VROC option.

Added new System Configuration (RBSU) configuration options that allow enabling and disabling EPP (Energy Performance Preference) when “Workload Profile” sets to “Custom” and “Power Regulator” sets to “OS Control Mode”.

Downgraded several debug messages from DEBUG_ERROR to DEBUG_INFO level. Removed unnecessary error messages in BIOS serial log.

Problems Fixed:

This revision of the System ROM includes the latest revision of the Intel IPU 2023.1 BIOS update which provides Intel's mitigation for BIOS advisory and security vulnerabilities documented as CVE-2022-21216, CVE-2022-32231, CVE-2022-26343, CVE-2022-33196, CVE-2022-38090 and CVE-2022-33972. 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 zlib library 1.2.13 update which provides mitigation for and security vulnerabilities documented as CVE-2022-37434.

This revision of the System ROM includes the revision of the OpenSSL library 1.1.1s update which provides mitigation for security vulnerabilities documented as CVE-2022-2097.

Addressed an issue where the controller name was not displayed in Japanese when MegaRAID was switched to Japanese, .

Addressed an issue where NVMe drive info was not displayed properly in iLO when Intel PCH VMD is enabled in RBSU.

Addressed an issue where Intel VROC SATA firmware shows N/A under PCI Device information.

Addressed an issue when system discovers thousands of LUNs and was trying to create thousands of boot options for each LUNs. System cannot add, delete or adjust new boot options on iLO web and RBSU after rebooting. System becomes unstable unless loading manufacture default.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2023.1 guidance.

Firmware Dependencies:

None

Problems Fixed:

This revision of the System ROM includes the latest revision of the Intel IPU 2023.1 BIOS update which provides Intel's mitigation for BIOS advisory and security vulnerabilities documented as CVE-2022-21216, CVE-2022-32231, CVE-2022-26343, CVE-2022-33196, CVE-2022-38090 and CVE-2022-33972. 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 zlib library 1.2.13 update which provides mitigation for and security vulnerabilities documented as CVE-2022-37434.

This revision of the System ROM includes the revision of the OpenSSL library 1.1.1s update which provides mitigation for security vulnerabilities documented as CVE-2022-2097.

Addressed an issue where the controller name was not displayed in Japanese when MegaRAID was switched to Japanese, .

Addressed an issue where NVMe drive info was not displayed properly in iLO when Intel PCH VMD is enabled in RBSU.

Addressed an issue where Intel VROC SATA firmware shows N/A under PCI Device information.

Addressed an issue when system discovers thousands of LUNs and was trying to create thousands of boot options for each LUNs. System cannot add, delete or adjust new boot options on iLO web and RBSU after rebooting. System becomes unstable unless loading manufacture default.

Known Issues:

None

Enhancements

Added "Important: Intel(R) NVMe and Intel(R) VROC are not supported when the Boot Mode is configured in Legacy BIOS Mode." message into the RBSU help description for Intel NVMe VROC option.

Added new System Configuration (RBSU) configuration options that allow enabling and disabling EPP (Energy Performance Preference) when “Workload Profile” sets to “Custom” and “Power Regulator” sets to “OS Control Mode”.

Downgraded several debug messages from DEBUG_ERROR to DEBUG_INFO level. Removed unnecessary error messages in BIOS serial log.

ROM Flash Universal Firmware Package - HPE ProLiant DL365/DL385/DL385 v2 Gen10 Plus (A42) Servers
Version: 2.68_02-06-2023 **(Recommended)**
Filename: A42_2.68_02_06_2023.fwpkg

Important Note!

Important Notes:

None

Deliverable Name:

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

Release Version:

2.68_02-06-2023

Last Recommended or Critical Revision:

2.68_02-06-2023

Previous Revision:

2.64_11-17-2022

Firmware Dependencies:

None

Enhancements/New Features:

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

/redfish/v1/systems/1/bios/settings/CustomPstate0

/redfish/v1/systems/1/bios/settings/Pstate0Frequency

Problems Fixed:

This revision of the System ROM updates zlib to 1.2.13 which provides mitigation for BIOS security vulnerability documented as CVE-2022-37434.

(https://nvd.nist.gov/vuln/detail/CVE-2022-37434). This security vulnerability is documented in the CVE report site.

This revision of the System ROM includes the v1.1.1s openSSL which provides mitigation for BIOS security vulnerability documented as CVE-2022-2097.

(https://nvd.nist.gov/vuln/detail/CVE-2022-2097). This security vulnerability is documented in the CVE report site.

Known Issues:

None

Fixes

Important Notes:

None

Firmware Dependencies:

None

Problems Fixed:

This revision of the System ROM updates zlib to 1.2.13 which provides mitigation for BIOS security vulnerability documented as CVE-2022-37434.

(https://nvd.nist.gov/vuln/detail/CVE-2022-37434). This security vulnerability is documented in the CVE report site.

This revision of the System ROM includes the v1.1.1s openSSL which provides mitigation for BIOS security vulnerability documented as CVE-2022-2097.

(https://nvd.nist.gov/vuln/detail/CVE-2022-2097). This security vulnerability is documented in the CVE report site.

Known Issues:

None

Enhancements

Add new System Configuration (RBSU) configuration options that allow controlling the processor's P0 (maximum) frequency. This includes the "Custom Pstate0" option with settings of "Auto" (default) and "Manual" and the "Pstate0 Frequency(MHz)" option that

allows setting the P0 frequency. When the "Custom Pstate0" option is configured for "Manual", the value of the "Pstate0 Frequency(MHz)" is used for the processor's P0 frequency. When the "Custom Pstate0" option is configured for "Auto", the processor uses its normal, maximum P0 frequency and the "Pstate0 Frequency(MHz)" option is not configurable. In System Configuration (RBSU), these options are located under the BIOS/Processor Options. This setting has the following Redfish properties:

/redfish/v1/systems/1/bios/settings/CustomPstate0

/redfish/v1/systems/1/bios/settings/Pstate0Frequency

Driver - Lights-Out Management Top

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

Fixes

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

Enhancements

- Added support for vSphere 8.0

Firmware - Network Top

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

Important Note!

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

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

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

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

A list of known issues with this release is available at: https://docs.nvidia.com/networking/display/ConnectX5Firmwarev16351012/Known+Issues

Prerequisites

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

Fixes

The following issues have been fixed in version 16.35.1012:

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

Enhancements

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

New features and changes included in version 16.35.1012:

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

  QOS_TRUST_STATE_P1
  QOS_TRUST_STATE_P2
  The values that can be used to set the default state are:
  TRUST_PORT
  TRUST_PCP
  TRUST_DSCP
  TRUST_DSCP_PCP

Supported Devices and Features

This software package contains the following firmware versions:

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

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: 20.35.1012 **(Recommended)**
Filename: 20_35_1012-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/ConnectX6Firmwarev20351012/Known+Issues

Prerequisites

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

Fixes

The following issues have been fixed in version 20.35.1012:

- RDE (Redfish) PATCH operation to LLDPTransmit properties "ManagementAddressIPv4", "ManagementAddressIPv6" and "ManagementAddressMAC" were applied only in the first attempt, but failed in the next.
- The RXT E2E inflight went into an unresposive state occasionally.
- RDMA partition was reported even if NIC+RDMA mode was disabled.
- PLDM AEN event receiver media was changed unexpectedly and destination BDF was overridden with garbage when some PLDM packet were received from the SMBus layer.

An incorrect address issue for XRQ Event Backend Controller Px Syndrome event in multi-host system during FLR.
- PCIe SKP OS generation interval issue for Gen1 and Gen2.
- InfiniBand L2 QP could not receive RDMA traffic occasionally.
- Running with a debug firmware reduced security as if token was applied.
- PLDM AEN event receiver was required to be cleared on PCIe reset in case the media type was MCTP over PCIe VDM.
- Asynchronous messages were sent over MTCP before endpoint discovery was done.

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 20.35.1012:

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

  QOS_TRUST_STATE_P1
  QOS_TRUST_STATE_P2
  The values that can be used to set the default state are:
  TRUST_PORT
  TRUST_PCP
  TRUST_DSCP
  TRUST_DSCP_PCP

- Added support for using SetEventReceiver PLDM command with mode polling.

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)	20.35.1012	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: 20.35.1012 **(Recommended)**
Filename: 20_35_1012-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/ConnectX6Firmwarev20351012/Known+Issues

Prerequisites

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

Fixes

The following issues have been fixed in version 20.35.1012:

- RDE (Redfish) PATCH operation to LLDPTransmit properties "ManagementAddressIPv4", "ManagementAddressIPv6" and "ManagementAddressMAC" were applied only in the first attempt, but failed in the next.
- The RXT E2E inflight went into an unresposive state occasionally.
- RDMA partition was reported even if NIC+RDMA mode was disabled.
- PLDM AEN event receiver media was changed unexpectedly and destination BDF was overridden with garbage when some PLDM packet were received from the SMBus layer.
- An incorrect address issue for XRQ Event Backend Controller Px Syndrome event in multi-host system during FLR.
- PCIe SKP OS generation interval issue for Gen1 and Gen2.
- InfiniBand L2 QP could not receive RDMA traffic occasionally.
- Running with a debug firmware reduced security as if token was applied.
- PLDM AEN event receiver was required to be cleared on PCIe reset in case the media type was MCTP over PCIe VDM.
- Asynchronous messages were sent over MTCP before endpoint discovery was done.

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 20.35.1012:

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

  QOS_TRUST_STATE_P1
  QOS_TRUST_STATE_P2
  The values that can be used to set the default state are:
  TRUST_PORT
  TRUST_PCP
  TRUST_DSCP
  TRUST_DSCP_PCP

- Added support for using SetEventReceiver PLDM command with mode polling.

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)	20.35.1012	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: 20.35.1012 **(Recommended)**
Filename: 20_35_1012-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/ConnectX6Firmwarev20351012/Known+Issues

Prerequisites

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

Fixes

The following issues have been fixed in version 20.35.1012:

- RDE (Redfish) PATCH operation to LLDPTransmit properties "ManagementAddressIPv4", "ManagementAddressIPv6" and "ManagementAddressMAC" were applied only in the first attempt, but failed in the next.
- The RXT E2E inflight went into an unresposive state occasionally.
- RDMA partition was reported even if NIC+RDMA mode was disabled.
- PLDM AEN event receiver media was changed unexpectedly and destination BDF was overridden with garbage when some PLDM packet were received from the SMBus layer.
- An incorrect address issue for XRQ Event Backend Controller Px Syndrome event in multi-host system during FLR.
- PCIe SKP OS generation interval issue for Gen1 and Gen2.
- InfiniBand L2 QP could not receive RDMA traffic occasionally.
- Running with a debug firmware reduced security as if token was applied.
- PLDM AEN event receiver was required to be cleared on PCIe reset in case the media type was MCTP over PCIe VDM.
- Asynchronous messages were sent over MTCP before endpoint discovery was done.

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 20.35.1012:

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

  QOS_TRUST_STATE_P1
  QOS_TRUST_STATE_P2

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

- Added support for using SetEventReceiver PLDM command with mode polling.

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)	20.35.1012	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: 20.35.1012 **(Recommended)**
Filename: 20_35_1012-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/ConnectX6Firmwarev20351012/Known+Issues

Prerequisites

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

Fixes

The following issues have been fixed in version 20.35.1012:

- RDE (Redfish) PATCH operation to LLDPTransmit properties "ManagementAddressIPv4", "ManagementAddressIPv6" and "ManagementAddressMAC" were applied only in the first attempt, but failed in the next.
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- An incorrect address issue for XRQ Event Backend Controller Px Syndrome event in multi-host system during FLR.
- PCIe SKP OS generation interval issue for Gen1 and Gen2.
- InfiniBand L2 QP could not receive RDMA traffic occasionally.
- Running with a debug firmware reduced security as if token was applied.
- PLDM AEN event receiver was required to be cleared on PCIe reset in case the media type was MCTP over PCIe VDM.
- Asynchronous messages were sent over MTCP before endpoint discovery was done.

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 20.35.1012:

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

  QOS_TRUST_STATE_P1
  QOS_TRUST_STATE_P2

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

- Added support for using SetEventReceiver PLDM command with mode polling.

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)	20.35.1012	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: 20.35.1012 **(Recommended)**
Filename: 20_35_1012-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/ConnectX6Firmwarev20351012/Known+Issues

Prerequisites

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

Fixes

The following issues have been fixed in version 20.35.1012:

- RDE (Redfish) PATCH operation to LLDPTransmit properties "ManagementAddressIPv4", "ManagementAddressIPv6" and "ManagementAddressMAC" were applied only in the first attempt, but failed in the next.
- The RXT E2E inflight went into an unresposive state occasionally.
- RDMA partition was reported even if NIC+RDMA mode was disabled.
- PLDM AEN event receiver media was changed unexpectedly and destination BDF was overridden with garbage when some PLDM packet were received from the SMBus layer.
- An incorrect address issue for XRQ Event Backend Controller Px Syndrome event in multi-host system during FLR.
- PCIe SKP OS generation interval issue for Gen1 and Gen2.
- InfiniBand L2 QP could not receive RDMA traffic occasionally.
- Running with a debug firmware reduced security as if token was applied.
- PLDM AEN event receiver was required to be cleared on PCIe reset in case the media type was MCTP over PCIe VDM.
- Asynchronous messages were sent over MTCP before endpoint discovery was done.

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 20.35.1012:

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

  QOS_TRUST_STATE_P1
  QOS_TRUST_STATE_P2

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

- Added support for using SetEventReceiver PLDM command with mode polling.

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)	20.35.1012	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: 20.35.1012 **(Recommended)**

Filename: 20_35_1012-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/ConnectX6Firmwarev20351012/Known+Issues

Prerequisites

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

Fixes

The following issues have been fixed in version 20.35.1012:

- RDE (Redfish) PATCH operation to LLDPTransmit properties "ManagementAddressIPv4", "ManagementAddressIPv6" and "ManagementAddressMAC" were applied only in the first attempt, but failed in the next.
- The RXT E2E inflight went into an unresposive state occasionally.
- RDMA partition was reported even if NIC+RDMA mode was disabled.
- PLDM AEN event receiver media was changed unexpectedly and destination BDF was overridden with garbage when some PLDM packet were received from the SMBus layer.
- An incorrect address issue for XRQ Event Backend Controller Px Syndrome event in multi-host system during FLR.
- PCIe SKP OS generation interval issue for Gen1 and Gen2.

- InfiniBand L2 QP could not receive RDMA traffic occasionally.
- Running with a debug firmware reduced security as if token was applied.
- PLDM AEN event receiver was required to be cleared on PCIe reset in case the media type was MCTP over PCIe VDM.
- Asynchronous messages were sent over MTCP before endpoint discovery was done.

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 20.35.1012:

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

  QOS_TRUST_STATE_P1
  QOS_TRUST_STATE_P2
  The values that can be used to set the default state are:
  TRUST_PORT
  TRUST_PCP
  TRUST_DSCP
  TRUST_DSCP_PCP

- Added support for using SetEventReceiver PLDM command with mode polling.

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)	20.35.1012	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 0xffffff).
- 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 Top

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 Top

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

Important Note!

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

Enhancements

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: 5.32 (B) **(Recommended)**
Filename: CP053855.compsig; CP053855.zip

Fixes

- Fixed an issue where the encrypted data is not accessible for a RAID 50/60 volume when it was failed and healed using "Heal Array".
- Fixed an issue where pointers in PLDM commands were accessed before initialized.
- Fixed an issue where UBM3 backplanes fail to flash.
- Fixed a Predictive Failure drive LED blinking issue.
- Fixed an issue where a re-enabled encrypted single drive RAID 0 logical drive was reported with state Offline after system reboot.
- Fixed long SATA SSD TRIM causing hang.
- Fixed an issue where the product ID of an enclosure was not showing correctly.
- Fixed an issue where the drive bay number for a failed drive is wrong.
- Fixed an issue where the Real Time Clock (RTC) timestamp was not sent to the SES based storage enclosure SEPs attached to internal connectors of the controller.
- Fixed an issue where events are sent continuously if the host does not respond to PlatformEventMessage.
- Fixed an issue where Redfish Volume Create fails when using 4Kn data drives.
- Update Redfish Drive.Identifiers.DurableName to conform to the standard.
- Update Redfish Volume.Identifiers.DurableName to conform to the standard.
- Updated Redfish to the 2021.4 schema bundle.

Enhancements

- Added UBM6 backplane support.
- Added support for SED Local Key Management.
- Added a new HII menu that will attempt to re-enable a previously failed volume whose physical drives are back.
- Added an Unlock Controller option in the HII menu when controller password is set for Controller Based Encryption (CBE).
- Added new HII menu options to configure Controller Based Encryption (CBE).
- Added new HII options to enable and configure SED Local Key Management.
- Added support for the following Redfish ACTION requests:
  – Drive.SecureErase
  – Drive.Reset
  – Storage.ResetToDefaults
- Added support for Redfish PATCH requests for the following properties:
  – Volume.DisplayName
  – Volume.Links.DedicatedSpareDrives
  – Volume.IOPerfModeEnabled
  – Volume.ReadCachePolicy
  – Volume.WriteCachePolicy
  – Drive.LocationIndicatorActive
  – Drive.WriteCacheEnabled

  – StorageController.ControllerRates.ConsistencyCheckRatePercent
  – StorageController.ControllerRates.RebuildRatePercent
  – StorageController.ControllerRates.TransformationRatePercent

- Added the following Redfish alerts:
  – DriveOffline
  – DriveMissing
  – DriveOfflineCleared
  – VolumeOffline
  – VolumeOfflineCleared
  – BatteryMissing
  – BatteryFailure
  – BatteryCharging

  – BatteryOK
  – ControllerDegraded
  – ControllerFailure
  – ControllerPreviousFailure
  – ControllerPasswordRequired
  – ControllerPasswordEntered (changing to ControllerPasswordAccepted in the future)

- Added MaxMembers to Redfish VolumeCollection
- Added 'Reverting' to Redfish Drive.Operations.OperationName used for SED.
- Added 'NativeDriveEncryption' (SED) to Redfish Volume.EncryptionTypes.
- Added support for Redfish Drive.EncryptionStatus for SED.
- Redfish Drive.Status.State will be set to StandbyOffline in the following conditions:
  - SED is Foreign

- SED is Locked (only for controller owned SEDs)
- SED is controller owned and controller is waiting on SED adapter password

- Added support for Redfish Volume.Encrypted for SED.

Firmware - Storage Fibre Channel Top

HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for VMware vSphere 8.0
Version: 2023.03.01 **(Recommended)**
Filename: CP054527.compsig; CP054527.zip

Important Note!

This Firmware package contains following firmware versions:

Adapter	Speed	Universal Boot Image	Firmware	UEFI	Boot Bios
HPE SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	16Gb	14.0.499.29	14.0.499.29	14.0.499.2	14.0.490.0
HPE SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	16Gb	14.0.499.29	14.0.499.29	14.0.499.2	14.0.490.0
HPE SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	14.0.499.29	14.0.499.29	14.0.499.2	14.0.490.0
HPE SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	14.0.499.29	14.0.499.29	14.0.499.2	14.0.490.0
HPE SN1610E 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	14.0.499.29	14.0.499.29	14.0.499.2	14.0.490.0
HPE SN1610E 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	14.0.499.29	14.0.499.29	14.0.499.2	14.0.490.0
HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	14.0.499.29	14.0.499.29	14.0.499.2	14.0.490.0
HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	14.0.499.29	14.0.499.29	14.0.499.2	14.0.490.0

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	14.0.499.29	14.0.499.29	14.0.499.2	14.0.490.0
HPE SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	16Gb	14.0.499.29	14.0.499.29	14.0.499.2	14.0.490.0
HPE SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	14.0.499.29	14.0.499.29	14.0.499.2	14.0.490.0
HPE SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	14.0.499.29	14.0.499.29	14.0.499.2	14.0.490.0
HPE SN1610E 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	14.0.499.29	14.0.499.29	14.0.499.2	14.0.490.0
HPE SN1610E 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	14.0.499.29	14.0.499.29	14.0.499.2	14.0.490.0
HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	14.0.499.29	14.0.499.29	14.0.499.2	14.0.490.0
HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	14.0.499.29	14.0.499.29	14.0.499.2	14.0.490.0

Supported Devices and Features

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

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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Software - Management Top

HPE Agentless Management Bundle Smart Component on ESXi for Gen10 and Gen10 Plus Servers
Version: 2023.02.01 **(Recommended)**
Filename: cp054509.compsig; cp054509.zip

Fixes

Agentless Management Service

- Removed incorrect reporting of NS204i device in cpqSePCIeDisk MIB.
- Fixed incorrect speed of 100G network adapter reported in cpqNicIfPhysAdapterSpeedMbps OID.
- Fixed missing OS Logical Disk entries in the iLO AHS log.

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

Enhancements

Supports VMware ESXi 8.0

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

Fixes

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

Enhancements

- Added support for vSphere 8.0

Software - Storage Fibre Channel Top

HPE QLogic Fibre Channel driver component for VMware vSphere 8.0
Version: 2023.03.01 **(Recommended)**
Filename: cp054426.compsig; cp054426.zip

Important Note!

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

Prerequisites

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

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

Enhancements

Driver version 5.3.1.0

Supported Devices and Features

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

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 Top

HPE Agentless Management Bundle for ESXi for HPE Gen10 and Gen10 Plus Servers
Version: 701.11.9.0 **(Recommended)**
Filename: amsdComponent_701.11.9.0.9-1_20793680.zip

Fixes

Agentless Management Service

- Removed incorrect reporting of NS204i device in cpqSePCIeDisk MIB.
- Fixed incorrect speed of 100G network adapter reported in cpqNicIfPhysAdapterSpeedMbps OID.
- Fixed missing OS Logical Disk entries in the iLO AHS log.

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

Enhancements

Supports VMware ESXi 8.0

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

Enhancements

Gen11 PR2 Usage

Get connected

hpe.com/info/getconnected

Current HPE driver, support, and security alerts delivered directly to your desktop

Updated April 11 2023

Hewlett Packard Enterprise