

VMware Deliverable Release Notes

This document does not apply to HPE Superdome servers. For information on HPE Superdome and HPE Synergy, 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](#)

VMware Upgrade Pack 1.2.1 for VMware ESXi 7.0 Update 1 Release Notes

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BIOS (Login Required) - System ROM

ROM Flash Firmware Package - HPE Apollo 2000 Gen10/HPE ProLiant XL170r/XL190r Gen10 (U38) Servers
Version: 2.36_07-16-2020 **(Optional)**
Filename: U38_2.36_07_16_2020.fwpkg

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Important Note!

Important Notes:

None

Deliverable Name:

HPE Apollo 2000 Gen10/HPE ProLiant XL170r/XL190r Gen10 System ROM - U38

Release Version:

2.36_07-16-2020

Last Recommended or Critical Revision:

2.32_03-09-2020

Previous Revision:

2.34_04-08-2020

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

Addressed an issue where the system would become unresponsive with a Red Screen or hang when booting to FreeBSD R12.1 from a USB device when in Legacy Boot Mode. This issue did not impact systems configured for UEFI Boot Mode or when booting from other types of media.

Addressed an issue where a dual port networking device may show up in the System Configuration Utilities with two Port 1 names instead of properly being represented as Port 1 and Port 2. This did not impact any functionality to the device.

Known Issues:

None

Fixes

Important Notes:

None

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where the system would become unresponsive with a Red Screen or hang when booting to FreeBSD R12.1 from a USB device when in Legacy Boot Mode. This issue did not impact systems configured for UEFI Boot Mode or when booting from other types of media.

Addressed an issue where a dual port networking device may show up in the System Configuration Utilities with two Port 1 names instead of properly being represented as Port 1 and Port 2. This did not impact any functionality to the device.

Known Issues:

None

ROM Flash Firmware Package - HPE Apollo 4200 Gen10/HPE ProLiant XL420 Gen10 (U39) Servers
Version: 2.36_07-16-2020 **(Optional)**
Filename: U39_2.36_07_16_2020.fwpkg

Important Note!

Important Notes:

None

Deliverable Name:

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

Release Version:

2.36_07-16-2020

Last Recommended or Critical Revision:

2.32_03-09-2020

Previous Revision:

2.36_06-23-2020

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

Addressed an issue where the system would become unresponsive with a Red Screen or hang when booting to FreeBSD R12.1 from a USB device when in Legacy Boot Mode. This issue did not impact systems configured for UEFI Boot Mode or when booting from other types of media.

Addressed an issue where a dual port networking device may show up in the System Configuration Utilities with two Port 1 names instead of properly being represented as Port 1 and Port 2. This did not impact any functionality to the device.

Known Issues:

None

Fixes**Important Notes:**

None

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where the system would become unresponsive with a Red Screen or hang when booting to FreeBSD R12.1 from a USB device when in Legacy Boot Mode. This issue did not impact systems configured for UEFI Boot Mode or when booting from other types of media.

Addressed an issue where a dual port networking device may show up in the System Configuration Utilities with two Port 1 names instead of properly being represented as Port 1 and Port 2. This did not impact any functionality to the device.

Known Issues:

None

ROM Flash Firmware Package - HPE Apollo 4510 Gen10/HPE ProLiant XL450 Gen10 (U40) Servers

Version: 2.36_07-16-2020 **(Optional)**

Filename: U40_2.36_07_16_2020.fwpkg

Important Note!**Important Notes:**

None

Deliverable Name:

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

Release Version:

2.36_07-16-2020

Last Recommended or Critical Revision:

2.32_03-09-2020

Previous Revision:

2.34_04-08-2020

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

Addressed an issue where the system would become unresponsive with a Red Screen or hang when booting to FreeBSD R12.1 from a USB device when in Legacy Boot Mode. This issue did not impact systems configured for UEFI Boot Mode or when booting from other types of media.

Addressed an issue where a dual port networking device may show up in the System Configuration Utilities with two Port 1 names instead of properly being represented as Port 1 and Port 2. This did not impact any functionality to the device.

Known Issues:

None

Fixes

Important Notes:

None

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where the system would become unresponsive with a Red Screen or hang when booting to FreeBSD R12.1 from a USB device when in Legacy Boot Mode. This issue did not impact systems configured for UEFI Boot Mode or when booting from other types of media.

Addressed an issue where a dual port networking device may show up in the System Configuration Utilities with two Port 1 names instead of properly being represented as Port 1 and Port 2. This did not impact any functionality to the device.

Known Issues:

None

ROM Flash Firmware Package - HPE ProLiant BL460c Gen10 (I41) Servers
Version: 2.36_07-16-2020 **(Optional)**
Filename: I41_2.36_07_16_2020.fwpkg

Important Note!**Important Notes:**

None

Deliverable Name:

HPE ProLiant BL460c Gen10 System ROM - I41

Release Version:

2.36_07-16-2020

Last Recommended or Critical Revision:

2.32_03-09-2020

Previous Revision:

2.34_04-08-2020

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

Addressed an issue where the system would become unresponsive with a Red Screen or hang when booting to FreeBSD R12.1 from a USB device when in Legacy Boot Mode. This issue did not impact systems configured for UEFI Boot Mode or when booting from other types of media.

Addressed an issue where a dual port networking device may show up in the System Configuration Utilities with two Port 1 names instead of properly being represented as Port 1 and Port 2. This did not impact any functionality to the device.

Known Issues:

None

Fixes**Important Notes:**

None

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where the system would become unresponsive with a Red Screen or hang when booting to FreeBSD R12.1 from a USB device when in Legacy Boot Mode. This issue did not impact systems configured for UEFI Boot Mode or when booting from other types of media.

Addressed an issue where a dual port networking device may show up in the System Configuration Utilities with two Port 1 names instead of properly being represented as Port 1 and Port 2. This did not impact any functionality to the device.

Known Issues:

None

ROM Flash Firmware Package - HPE ProLiant DL160 Gen10/DL180 Gen10 (U31) Servers
Version: 2.36_07-16-2020 **(Optional)**
Filename: U31_2.36_07_16_2020.fwpkg

Important Note!**Important Notes:**

None

Deliverable Name:

HPE ProLiant DL160 Gen10/DL180 Gen10 System ROM - U31

Release Version:

2.36_07-16-2020

Last Recommended or Critical Revision:

2.32_03-09-2020

Previous Revision:

2.34_04-08-2020

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

Addressed an issue where the system would become unresponsive with a Red Screen or hang when booting to FreeBSD R12.1 from a USB device when in Legacy Boot Mode. This issue did not impact systems configured for UEFI Boot Mode or when booting from other types of media.

Addressed an issue where a dual port networking device may show up in the System Configuration Utilities with two Port 1 names instead of properly being represented as Port 1 and Port 2. This did not impact any functionality to the device.

Known Issues:

None

Fixes

Important Notes:

None

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where the system would become unresponsive with a Red Screen or hang when booting to FreeBSD R12.1 from a USB device when in Legacy Boot Mode. This issue did not impact systems configured for UEFI Boot Mode or when booting from other types of media.

Addressed an issue where a dual port networking device may show up in the System Configuration Utilities with two Port 1 names instead of properly being represented as Port 1 and Port 2. This did not impact any functionality to the device.

Known Issues:

None

ROM Flash Firmware Package - HPE ProLiant DL20 Gen10 (U43) Servers
Version: 2.18_06-24-2020 (**Optional**)
Filename: U43_2.18_06_24_2020.fwpkg

Important Note!

Important Notes:

None

Deliverable Name:

HPE ProLiant DL20 Gen10 System ROM - U43

Release Version:

2.18_06-24-2020

Last Recommended or Critical Revision:

2.16_05-25-2020

Previous Revision:

2.16_05-25-2020

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

This revision of the System ROM includes the latest revision of the Intel microcode for Intel Pentium processors which provides mitigations for security vulnerabilities documented as CVE-2020-0543 as well as CVE-2020-0548 and CVE-2020-0549. These security vulnerabilities are documented in Intel Security Advisories INTEL-SA-00320 and INTEL-SA-00329. These issues are not unique to HPE servers. This update does not impact systems using Intel Xeon based processors.

Addressed an issue where the system would become unresponsive with a Red Screen or hang when booting to FreeBSD R12.1 from a USB device when in Legacy Boot Mode. This issue did not impact systems configured for UEFI Boot Mode or when booting from other types of media.

Addressed an issue where a dual port networking device may show up in the System Configuration Utilities with two Port 1 names instead of properly being represented as Port 1 and Port 2. This did not impact any functionality to the device.

Known Issues:

None

Fixes

Important Notes:

None

Firmware Dependencies:

None

Problems Fixed:

This revision of the System ROM includes the latest revision of the Intel microcode for Intel Pentium processors which provides mitigations for security vulnerabilities documented as CVE-2020-0543 as well as CVE-2020-0548 and CVE-2020-0549. These security vulnerabilities are documented in Intel Security Advisories INTEL-SA-00320 and INTEL-SA-00329. These issues are not unique to HPE servers. This update does not impact systems using Intel Xeon based processors.

Addressed an issue where the system would become unresponsive with a Red Screen or hang when booting to FreeBSD R12.1 from a USB device when in Legacy Boot Mode. This issue did not impact systems configured for UEFI Boot Mode or when booting from other types of media.

Addressed an issue where a dual port networking device may show up in the System Configuration Utilities with two Port 1 names instead of properly being represented as Port 1 and Port 2. This did not impact any functionality to the device.

Known Issues:

None

ROM Flash Firmware Package - HPE ProLiant DL325 Gen10 (A41) Servers
Version: 2.42_07-17-2020 **(Recommended)**
Filename: A41_2.42_07_17_2020.fwpkg

Important Note!

Important Notes:

None

Deliverable Name:

HPE ProLiant DL325 Gen10 System ROM - A41

Release Version:

2.42_07-17-2020

Last Recommended or Critical Revision:

2.42_07-17-2020

Previous Revision:

2.40_05-11-2020

Firmware Dependencies:

None

Enhancements/New Features:

Added a new BIOS/Platform Configuration (RBSU) option for DRAM Burst Refresh Mode to provide mitigation for TRRespass and Targeted Row Refresh exploits. This option should be configured to Disabled to mitigate the TRRespass vulnerability. Setting this option to Disabled may have a minimal impact to system performance. The default setting is Enabled.

Added a new BIOS/Platform Configuration (RBSU) option in the Minimum Processor Idle Power Core C-State setting for C1 State. This option allows for power savings during certain workloads without the performance impacts of C6 State.

Problems Fixed:

Addressed an issue where uncorrectable memory errors are seen when running memory intensive workloads with LRDIMMs.

Address an issue that could cause a slight degradation of performance.

Resolved an issue with NVMe hot add or removal which may result in an unrecoverable I/O error reported in the Integrated Management Log (IML).

Addressed an issue where the UEFI Shell command GetPciRom may not display information for PCI expansion device drivers.

Addressed an extremely intermittent issue with AMD Epyc 1st Gen processors that would cause a critical error and system reset.

Known Issues:

None

Fixes

Important Notes:

None

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where uncorrectable memory errors are seen when running memory intensive workloads with LRDIMMs.

Address an issue that could cause a slight degradation of performance.

Resolved an issue with NVMe hot add or removal which may result in an unrecoverable I/O error reported in the Integrated Management Log (IML).

Addressed an issue where the UEFI Shell command GetPciRom may not display information for PCI expansion device drivers.

Addressed an extremely intermittent issue with AMD Epyc 1st Gen processors that would cause a critical error and system reset.

Known Issues:

None

Enhancements

Added a new BIOS/Platform Configuration (RBSU) option for DRAM Burst Refresh Mode to provide mitigation for TRRespass and Targeted Row Refresh exploits. This option should

be configured to Disabled to mitigate the TRRespass vulnerability. Setting this option to Disabled may have a minimal impact to system performance. The default setting is Enabled.

Added a new BIOS/Platform Configuration (RBSU) option in the Minimum Processor Idle Power Core C-State setting for C1 State. This option allows for power savings during certain workloads without the performance impacts of C6 State.

ROM Flash Firmware Package - HPE ProLiant DL360 Gen10 (U32) Servers
Version: 2.36_07-16-2020 **(Optional)**
Filename: U32_2.36_07_16_2020.fwpkg

Important Note!

Important Notes:

None

Deliverable Name:

HPE ProLiant DL360 Gen10 System ROM - U32

Release Version:

2.36_07-16-2020

Last Recommended or Critical Revision:

2.32_03-09-2020

Previous Revision:

2.34_04-08-2020

Firmware Dependencies:

None

Enhancements/New Features:

Updated thermal support for the server to include the HPE NS204i-p Controller.

Problems Fixed:

Addressed an issue where the system would become unresponsive with a Red Screen or hang when booting to FreeBSD R12.1 from a USB device when in Legacy Boot Mode. This issue did not impact systems configured for UEFI Boot Mode or when booting from other types of media.

Addressed an issue where a dual port networking device may show up in the System Configuration Utilities with two Port 1 names instead of properly being represented as Port 1 and Port 2. This did not impact any functionality to the device.

Known Issues:

None

Fixes

Important Notes:

None

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where the system would become unresponsive with a Red Screen or hang when booting to FreeBSD R12.1 from a USB device when in Legacy Boot Mode. This issue did not impact systems configured for UEFI Boot Mode or when booting from other types of media.

Addressed an issue where a dual port networking device may show up in the System Configuration Utilities with two Port 1 names instead of properly being represented as Port 1 and Port 2. This did not impact any functionality to the device.

Known Issues:

None

Enhancements

Updated thermal support for the server to include the HPE NS204i-p Controller.

ROM Flash Firmware Package - HPE ProLiant DL380 Gen10 (U30) Servers
Version: 2.36_07-16-2020 **(Optional)**
Filename: U30_2.36_07_16_2020.fwpkg

Important Note!

Important Notes:

None

Deliverable Name:

HPE ProLiant DL380 Gen10 System ROM - U30

Release Version:

2.36_07-16-2020

Last Recommended or Critical Revision:

2.32_03-09-2020

Previous Revision:

2.34_04-08-2020

Firmware Dependencies:

None

Enhancements/New Features:

Updated thermal support for the server to include the HPE NS204i-p Controller.

Problems Fixed:

Addressed an issue where the system would become unresponsive with a Red Screen or hang when booting to FreeBSD R12.1 from a USB device when in Legacy Boot Mode. This issue did not impact systems configured for UEFI Boot Mode or when booting from other types of media.

Addressed an issue where a dual port networking device may show up in the System Configuration Utilities with two Port 1 names instead of properly being represented as Port 1 and Port 2. This did not impact any functionality to the device.

Known Issues:

None

Fixes**Important Notes:**

None

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where the system would become unresponsive with a Red Screen or hang when booting to FreeBSD R12.1 from a USB device when in Legacy Boot Mode. This issue did not impact systems configured for UEFI Boot Mode or when booting from other types of media.

Addressed an issue where a dual port networking device may show up in the System Configuration Utilities with two Port 1 names instead of properly being represented as Port 1 and Port 2. This did not impact any functionality to the device.

Known Issues:

None

Enhancements

Updated thermal support for the server to include the HPE NS204i-p Controller.

ROM Flash Firmware Package - HPE ProLiant DL385 Gen10 (A40) Servers

Version: 2.42_07-17-2020 (**Recommended**)

Filename: A40_2.42_07_17_2020.fwpkg

Important Note!**Important Notes:**

None

Deliverable Name:

HPE ProLiant DL385 Gen10 System ROM - A40

Release Version:

2.42_07-17-2020

Last Recommended or Critical Revision:

2.42_07-17-2020

Previous Revision:

2.40_05-11-2020

Firmware Dependencies:

None

Enhancements/New Features:

Added a new BIOS/Platform Configuration (RBSU) option for DRAM Burst Refresh Mode to provide mitigation for TRRespass and Targeted Row Refresh exploits. This option should be configured to Disabled to mitigate the TRRespass vulnerability. Setting this option to Disabled may have a minimal impact to system performance. The default setting is Enabled.

Added a new BIOS/Platform Configuration (RBSU) option in the Minimum Processor Idle Power Core C-State setting for C1 State. This option allows for power savings during certain workloads without the performance impacts of C6 State.

Problems Fixed:

Addressed an issue where uncorrectable memory errors are seen when running memory intensive workloads with LRDIMMs.

Address an issue that could cause a slight degradation of performance.

Resolved an issue with NVMe hot add or removal which may result in an unrecoverable I/O error reported in the Integrated Management Log (IML).

Addressed issue where the UEFI Shell command GetPciRom may not display information for PCI expansion device drivers.

Addressed an extremely intermittent issue with AMD Epyc 1st Gen processors that would cause a critical error and system reset.

Known Issues:

None

Fixes**Important Notes:**

None

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where uncorrectable memory errors are seen when running memory intensive workloads with LRDIMMs.

Address an issue that could cause a slight degradation of performance.

Resolved an issue with NVMe hot add or removal which may result in an unrecoverable I/O error reported in the Integrated Management Log (IML).

Addressed an issue where the UEFI Shell command GetPciRom may not display information for PCI expansion device drivers.

Addressed an extremely intermittent issue with AMD Epyc 1st Gen processors that would cause a critical error and system reset.

Known Issues:

None

Enhancements

Added a new BIOS/Platform Configuration (RBSU) option for DRAM Burst Refresh Mode to provide mitigation for TRRespass and Targeted Row Refresh exploits. This option should be configured to Disabled to mitigate the TRRespass vulnerability. Setting this option to Disabled may have a minimal impact to system performance. The default setting is Enabled.

Added a new BIOS/Platform Configuration (RBSU) option in the Minimum Processor Idle Power Core C-State setting for C1 State. This option allows for power savings during certain workloads without the performance impacts of C6 State.

ROM Flash Firmware Package - HPE ProLiant DL560 Gen10/DL580 Gen10 (U34) Servers

Version: 2.36_07-16-2020 **(Optional)**

Filename: U34_2.36_07_16_2020.fwpkg

Important Note!

Important Notes:

None

Deliverable Name:

HPE ProLiant DL560 Gen10/DL580 Gen10 System ROM - U34

Release Version:

2.36_07-16-2020

Last Recommended or Critical Revision:

2.32_03-09-2020

Previous Revision:

2.34_04-08-2020

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

Addressed an issue where the system would become unresponsive with a Red Screen or hang when booting to FreeBSD R12.1 from a USB device when in Legacy Boot Mode. This issue did not impact systems configured for UEFI Boot Mode or when booting from other types of media.

Addressed an issue where a dual port networking device may show up in the System Configuration Utilities with two Port 1 names instead of properly being represented as Port 1 and Port 2. This did not impact any functionality to the device.

Known Issues:

None

Fixes

Important Notes:

None

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where the system would become unresponsive with a Red Screen or hang when booting to FreeBSD R12.1 from a USB device when in Legacy Boot Mode. This issue did not impact systems configured for UEFI Boot Mode or when booting from other types of media.

Addressed an issue where a dual port networking device may show up in the System Configuration Utilities with two Port 1 names instead of properly being represented as Port 1 and Port 2. This did not impact any functionality to the device.

Known Issues:

None

ROM Flash Firmware Package - HPE ProLiant MicroServer Gen10 Plus (U48) Servers

Version: 2.18_06-24-2020 **(Optional)**

Filename: U48_2.18_06_24_2020.fwpkg

Important Note!

Important Notes:

None

Deliverable Name:

HPE ProLiant MicroServer Gen10 Plus System ROM - U48

Release Version:

2.18_06-24-2020

Last Recommended or Critical Revision:

2.16_05-25-2020

Previous Revision:

2.16_05-25-2020

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

This revision of the System ROM includes the latest revision of the Intel microcode for Intel Pentium processors which provides mitigations for security vulnerabilities documented as CVE-2020-0543 as well as CVE-2020-0548 and CVE-2020-0549. These security vulnerabilities are documented in Intel Security Advisories INTEL-SA-00320 and INTEL-SA-00329. These issues are not unique to HPE servers. This update does not impact systems using Intel Xeon based processors.

Addressed an issue where the system would become unresponsive with a Red Screen or hang when booting to FreeBSD R12.1 from a USB device when in Legacy Boot Mode. This issue did not impact systems configured for UEFI Boot Mode or when booting from other types of media.

Addressed an issue where a dual port networking device may show up in the System Configuration Utilities with two Port 1 names instead of properly being represented as Port 1 and Port 2. This did not impact any functionality to the device.

Known Issues:

None

Fixes

Important Notes:

None

Firmware Dependencies:

None

Problems Fixed:

This revision of the System ROM includes the latest revision of the Intel microcode for Intel Pentium processors which provides mitigations for security vulnerabilities documented as CVE-2020-0543 as well as CVE-2020-0548 and CVE-2020-0549. These security vulnerabilities are documented in Intel Security Advisories INTEL-SA-00320 and INTEL-SA-00329. These issues are not unique to HPE servers. This update does not impact systems using Intel Xeon based processors.

Addressed an issue where the system would become unresponsive with a Red Screen or hang when booting to FreeBSD R12.1 from a USB device when in Legacy Boot Mode. This issue did not impact systems configured for UEFI Boot Mode or when booting from other types of media.

Addressed an issue where a dual port networking device may show up in the System Configuration Utilities with two Port 1 names instead of properly being represented as Port 1 and Port 2. This did not impact any functionality to the device.

Known Issues:

None

ROM Flash Firmware Package - HPE ProLiant ML110 Gen10 (U33) Servers

Version: 2.36_07-16-2020 **(Optional)**

Filename: U33_2.36_07_16_2020.fwpkg

Important Note!

Important Notes:

None

Deliverable Name:

HPE ProLiant ML110 Gen10 System ROM - U33

Release Version:

2.36_07-16-2020

Last Recommended or Critical Revision:

2.32_03-09-2020

Previous Revision:

2.34_04-08-2020

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

Addressed an issue where the system would become unresponsive with a Red Screen or hang when booting to FreeBSD R12.1 from a USB device when in Legacy Boot Mode. This issue did not impact systems configured for UEFI Boot Mode or when booting from other types of media.

Addressed an issue where a dual port networking device may show up in the System Configuration Utilities with two Port 1 names instead of properly being represented as Port 1 and Port 2. This did not impact any functionality to the device.

Known Issues:

None

Fixes

Important Notes:

None

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where the system would become unresponsive with a Red Screen or hang when booting to FreeBSD R12.1 from a USB device when in Legacy Boot Mode. This issue did not impact systems configured for UEFI Boot Mode or when booting from other types of media.

Addressed an issue where a dual port networking device may show up in the System Configuration Utilities with two Port 1 names instead of properly being represented as Port 1 and Port 2. This did not impact any functionality to the device.

Known Issues:

None

ROM Flash Firmware Package - HPE ProLiant ML30 Gen10 (U44) Servers

Version: 2.18_06-24-2020 **(Optional)**

Filename: U44_2.18_06_24_2020.fwpkg

Important Note!

Important Notes:

None

Deliverable Name:

HPE ProLiant ML30 Gen10 System ROM - U44

Release Version:

2.18_06-24-2020

Last Recommended or Critical Revision:

2.16_05-25-2020

Previous Revision:

2.16_05-25-2020

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

This revision of the System ROM includes the latest revision of the Intel microcode for Intel Pentium processors which provides mitigations for security vulnerabilities documented as CVE-2020-0543 as well as CVE-2020-0548 and CVE-2020-0549. These security vulnerabilities are documented in Intel Security Advisories INTEL-SA-00320 and INTEL-SA-00329. These issues are not unique to HPE servers. This update does not impact systems using Intel Xeon based processors.

Addressed an issue where the system would become unresponsive with a Red Screen or hang when booting to FreeBSD R12.1 from a USB device when in Legacy Boot Mode. This issue did not impact systems configured for UEFI Boot Mode or when booting from other types of media.

Addressed an issue where a dual port networking device may show up in the System Configuration Utilities with two Port 1 names instead of properly being represented as Port 1 and Port 2. This did not impact any functionality to the device.

Known Issues:

None

Fixes

Important Notes:

None

Firmware Dependencies:

None

Problems Fixed:

This revision of the System ROM includes the latest revision of the Intel microcode for Intel Pentium processors which provides mitigations for security vulnerabilities documented as CVE-2020-0543 as well as CVE-2020-0548 and CVE-2020-0549. These security vulnerabilities are documented in Intel Security Advisories INTEL-SA-00320 and INTEL-SA-00329. These issues are not unique to HPE servers. This update does not impact systems using Intel Xeon based processors.

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Addressed an issue where a dual port networking device may show up in the System Configuration Utilities with two Port 1 names instead of properly being represented as Port 1 and Port 2. This did not impact any functionality to the device.

Known Issues:

None

Enhancements

See the release document U44_2.18_06_24_2020 in Download Product Binaries page from Product Summary of the firmware product.

ROM Flash Firmware Package - HPE ProLiant ML350 Gen10 (U41) Servers

Version: 2.36_07-16-2020 **(Optional)**

Filename: U41_2.36_07_16_2020.fwpkg

Important Note!**Important Notes:**

None

Deliverable Name:

HPE ProLiant ML350 Gen10 System ROM - U41

Release Version:

2.36_07-16-2020

Last Recommended or Critical Revision:

2.32_03-09-2020

Previous Revision:

2.36_06-23-2020

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

Addressed an issue where the system would become unresponsive with a Red Screen or hang when booting to FreeBSD R12.1 from a USB device when in Legacy Boot Mode. This issue did not impact systems configured for UEFI Boot Mode or when booting from other types of media.

Addressed an issue where a dual port networking device may show up in the System Configuration Utilities with two Port 1 names instead of properly being represented as Port 1 and Port 2. This did not impact any functionality to the device.

Known Issues:

None

Fixes**Important Notes:**

None

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where the system would become unresponsive with a Red Screen or hang when booting to FreeBSD R12.1 from a USB device when in Legacy Boot Mode. This issue did not impact systems configured for UEFI Boot Mode or when booting from other types of media.

Addressed an issue where a dual port networking device may show up in the System Configuration Utilities with two Port 1 names instead of properly being represented as Port 1 and Port 2. This did not impact any functionality to the device.

Known Issues:

None

ROM Flash Firmware Package - HPE ProLiant XL230k Gen10 (U37) Server

Version: 2.36_07-16-2020 **(Optional)**

Filename: U37_2.36_07_16_2020.fwpkg

Important Note!**Important Notes:**

None

Deliverable Name:

HPE ProLiant XL230k Gen10 System ROM - U37

Release Version:

2.36_07-16-2020

Last Recommended or Critical Revision:

2.32_03-09-2020

Previous Revision:

2.34_04-08-2020

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

Addressed an issue where the system would become unresponsive with a Red Screen or hang when booting to FreeBSD R12.1 from a USB device when in Legacy Boot Mode. This issue did not impact systems configured for UEFI Boot Mode or when booting from other types of media.

Addressed an issue where a dual port networking device may show up in the System Configuration Utilities with two Port 1 names instead of properly being represented as Port 1 and Port 2. This did not impact any functionality to the device.

Known Issues:

None

Fixes

Important Notes:

None

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where the system would become unresponsive with a Red Screen or hang when booting to FreeBSD R12.1 from a USB device when in Legacy Boot Mode. This issue did not impact systems configured for UEFI Boot Mode or when booting from other types of media.

Addressed an issue where a dual port networking device may show up in the System Configuration Utilities with two Port 1 names instead of properly being represented as Port 1 and Port 2. This did not impact any functionality to the device.

Known Issues:

None

ROM Flash Universal Firmware Package - HPE ProLiant DL325 Gen10 Plus (A43) Servers
Version: 1.30_07-18-2020 (**Recommended**)
Filename: A43_1.30_07_18_2020.fwpkg

Important Note!

Important Notes:

None

Deliverable Name:

HPE ProLiant DL325 Gen10 Plus System ROM - A43

Release Version:

1.30_07-18-2020

Last Recommended or Critical Revision:

1.30_07-18-2020

Previous Revision:

1.26_05-11-2020

Firmware Dependencies:

None

Enhancements/New Features:

Added a new BIOS/Platform Configuration (RBSU) option for DRAM Burst Refresh Mode to provide mitigation for TRRespass and Targeted Row Refresh exploits. This option should be configured to Disabled to mitigate the TRRespass vulnerability. Setting this option to Disabled may have a minimal impact to system performance. The default setting is Enabled.

Added a new BIOS/Platform Configuration (RBSU) option in the Minimum Processor Idle Power Core C-State setting for C1 State. This option allows for power savings during certain workloads without the performance impacts of C6 State.

Problems Fixed:

Addressed an issue where uncorrectable memory errors are seen when running memory intensive workloads with LRDIMMs.

Addressed an issue that could cause a slight degradation of performance.

Resolved an issue with NVMe hot add or removal which may result in an unrecoverable I/O error reported in the Integrated Management Log (IML).

Addressed an issue where the UEFI Shell command GetPciRom may not display information for PCI expansion device drivers.

Addressed an issue where the server may experience slower than expected performance when the inlet ambient temperature is greater than 30 degrees Celsius.

Known Issues:

None

Fixes

Important Notes:

None

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where uncorrectable memory errors are seen when running memory intensive workloads with LRDIMMs.

Addressed an issue that could cause a slight degradation of performance.

Resolved an issue with NVMe hot add or removal which may result in an unrecoverable I/O error reported in the Integrated Management Log (IML).

Addressed an issue where the UEFI Shell command GetPciRom may not display information for PCI expansion device drivers.

Addressed an issue where the server may experience slower than expected performance when the inlet ambient temperature is greater than 30 degrees Celsius.

Known Issues:

None

Enhancements

Added a new BIOS/Platform Configuration (RBSU) option for DRAM Burst Refresh Mode to provide mitigation for TRRespass and Targeted Row Refresh exploits. This option should be configured to Disabled to mitigate the TRRespass vulnerability. Setting this option to Disabled may have a minimal impact to system performance. The default setting is Enabled.

Added a new BIOS/Platform Configuration (RBSU) option in the Minimum Processor Idle Power Core C-State setting for C1 State. This option allows for power savings during certain workloads without the performance impacts of C6 State.

ROM Flash Universal Firmware Package - HPE ProLiant DL385 Gen10 Plus (A42) Servers

Version: 1.30_07-18-2020 (**Recommended**)

Filename: A42_1.30_07_18_2020.fwpkg

Important Note!

Important Notes:

None

Deliverable Name:

HPE ProLiant DL385 Gen10 Plus System ROM - A42

Release Version:

1.30_07-18-2020

Last Recommended or Critical Revision:

1.30_07-18-2020

Previous Revision:

1.26_05-11-2020

Firmware Dependencies:

None

Enhancements/New Features:

Added a new BIOS/Platform Configuration (RBSU) option for DRAM Burst Refresh Mode to provide mitigation for TRRespass and Targeted Row Refresh exploits. This option should be configured to Disabled to mitigate the TRRespass vulnerability. Setting this option to Disabled may have a minimal impact to system performance. The default setting is Enabled.

Added a new BIOS/Platform Configuration (RBSU) option in the Minimum Processor Idle Power Core C-State setting for C1 State. This option allows for power savings during certain workloads without the performance impacts of C6 State.

Problems Fixed:

Addressed an issue where uncorrectable memory errors are seen when running memory intensive workloads with LRDIMMs.

Addressed an issue that could cause a slight degradation of performance.

Resolved an issue with NVMe hot add or removal which may result in an unrecoverable I/O error reported in the Integrated Management Log (IML).

Addressed an issue where the UEFI Shell command GetPciRom may not display information for PCI expansion device drivers.

Known Issues:

None

Fixes

Important Notes:

None

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where uncorrectable memory errors are seen when running memory intensive workloads with LRDIMMs.

Addressed an issue that could cause a slight degradation of performance.

Resolved an issue with NVMe hot add or removal which may result in an unrecoverable I/O error reported in the Integrated Management Log (IML).

Addressed an issue where the UEFI Shell command GetPciRom may not display information for PCI expansion device drivers.

Known Issues:

None

Enhancements

Added a new BIOS/Platform Configuration (RBSU) option for DRAM Burst Refresh Mode to provide mitigation for TRRespass and Targeted Row Refresh exploits. This option should be configured to Disabled to mitigate the TRRespass vulnerability. Setting this option to Disabled may have a minimal impact to system performance. The default setting is

Enabled.

Added a new BIOS/Platform Configuration (RBSU) option in the Minimum Processor Idle Power Core C-State setting for C1 State. This option allows for power savings during certain workloads without the performance impacts of C6 State.

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

HPE iLO Native Driver for ESXi 7.0
Version: 10.6.0 (**Recommended**)
Filename: ilo-driver_700.10.6.0.10-1OEM.700.1.0.15843807_16345029.zip

Enhancements

Support for VMware ESXi 7.0 and ESXi 7.0 U1

Driver - Network [Top](#)

HPE Blade Intel ixgben Driver for VMware vSphere 7.0
Version: 2020.06.01 (**Optional**)
Filename: cp041435.compsig; cp041435.zip

Important Note!

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

HPE recommends the firmware provided in *HPE Blade Intel Online Firmware Upgrade Utility for VMware*, version 1.1.2 or later, for use with this driver.

Enhancements

Initial release.

Supported Devices and Features

These drivers support the following network adapters:

- HPE Ethernet 10Gb 2-port 560FLB Adapter
- HPE Ethernet 10Gb 2-port 560M Adapter

HPE Blade QLogic NX2 10/20 GbE Multifunction Driver for VMware vSphere 7.0

Version: 2020.06.01 (**Optional**)
Filename: cp041436.compsig; cp041436.zip

Important Note!

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

HPE recommends the firmware provided in *HPE Blade QLogic NX2 Online Firmware Upgrade Utility for VMware*, version 1.1.1 or later, for use with this driver.

Enhancements

Initial release.

Supported Devices and Features

These drivers support the following network adapters:

- HPE FlexFabric 10Gb 2-port 534M Adapter
- HPE FlexFabric 10Gb 2-port 536FLB Adapter
- HPE FlexFabric 20Gb 2-port 630FLB Adapter
- HPE FlexFabric 20Gb 2-port 630M Adapter

HPE Broadcom NetXtreme-E Drivers for VMware vSphere 7.0

Version: 2020.09.14 (**Optional**)
Filename: cp043308.compsig; cp043308.zip

Important Note!

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

HPE recommends the firmware provided in *HPE Broadcom NetXtreme-E Online Firmware Upgrade Utility for VMware*, version 5.11.0 or later, for use with this driver.

Enhancements

Initial release.

Supported Devices and Features

This product supports the following network adapters:

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

HPE Intel i40en Driver for VMware vSphere 7.0

Version: 2020.05.29 **(Optional)**
Filename: cp041295.compsig; cp041295.zip

Important Note!

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

HPE recommends the firmware provided in *HPE Intel Online Firmware Upgrade Utility for VMware*, version 3.12.50 or later, for use with this driver.

Enhancements

Initial release.

Supported Devices and Features

This product supports the following network adapters:

- HPE Ethernet 1Gb 2-port 368FLR-MMT Adapter
- HPE Ethernet 1Gb 2-port 368i Adapter
- HPE Ethernet 1Gb 4-port 369i Adapter
- HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter
- HPE Ethernet 10Gb 2-port 562SFP+ Adapter
- HPE Ethernet 10Gb 2-port 568i Adapter
- HPE Ethernet 10Gb 2-port 568FLR-MMSFP+ Adapter
- HPE Ethernet 10Gb 2-port 568FLR-MMT Adapter

HPE Intel igbn Driver for VMware vSphere 7.0

Version: 2020.05.29 **(Optional)**
Filename: cp041296.compsig; cp041296.zip

Important Note!

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

HPE recommends the firmware provided in *HPE Intel Online Firmware Upgrade Utility for VMware*, version 3.12.50 or later, for use with this driver.

Enhancements

Initial release.

Supported Devices and Features

These drivers support the following network adapters:

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

HPE Intel ixgben Driver for VMware vSphere 7.0

Version: 2020.05.29 **(Optional)**
Filename: cp041297.compsig; cp041297.zip

Important Note!

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

HPE recommends the firmware provided in *HPE Intel Online Firmware Upgrade Utility for VMware*, version 3.12.50 or later, for use with this driver.

Enhancements

Initial release.

Supported Devices and Features

These drivers support the following network adapters:

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

HPE QLogic NX2 10/20 GbE Multifunction Driver for VMware vSphere 7.0

Version: 2020.05.29 **(Optional)**
Filename: cp041163.compsig; cp041163.zip

Important Note!

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

HPE recommends the firmware provided in *HPE QLogic NX2 Online Firmware Upgrade Utility for VMware*, version 1.26.50 or later, for use with this driver.

Enhancements

Initial release.

Supported Devices and Features

These drivers support the following network adapters:

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

net-mst kernel module driver component for VMware ESXi 7.0

Version: 2020.05.20 (**Recommended**)

Filename: cp044401.compsig; cp044401.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 HPE vibsdepot.hpe.com webpage, plus an HPE specific CPXXXX.xml file.

Prerequisites

NA

Fixes

NMST version 4.14.3.3

Supported Devices and Features

HPE Part Number	Device Name	PSID
764282-B21	HPE InfiniBand QDR/Ethernet 10Gb 2-port 544+M Adapter	HP_1350110023
764283-B21	HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+M Adapter	HP_1360110017
764284-B21	HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+QSFP Adapter	HP_1370110017
P24837-B21	HPE Ethernet 10/25Gb 2-port 642SFP28 Adapter	HPE0000000054
P11338-B21	HPE Ethernet 10Gb 2-port 548SFP+ Adapter	HP_1200111023
764285-B21	HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+FLR-QSFP Adapter	HP_1380110017
764286-B21	HPE InfiniBand QDR/Ethernet 10Gb 2-port 544+FLR-QSFP Adapter	HP_1390110023
825110-B21	HPE InfiniBand EDR/Ethernet 100Gb 1-port 840QSFP28 Adapter	HP_2180110032
825111-B21	HPE InfiniBand EDR/Ethernet 100Gb 2-port 840QSFP28 Adapter	HP_2190110032
872726-B21	HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter	HPE0000000009
879482-B21	HPE InfiniBand FDR/Ethernet 40/50Gb 2-port 547FLR-QSFP Adapter	HPE0000000022
868779-B21	HPE Synergy 6410C 25/50Gb Ethernet Adapter	HPE0000000006
779793-B21	HPE Ethernet 10Gb 2-port 546SFP+ Adapter	HP_1200111023
779799-B21	HPE Ethernet 10Gb 2-port 546FLR-SFP+ Adapter	HP_2240110004
817749-B21	HPE Ethernet 25Gb 2-port 640FLR-SFP28 Adapter	HP_2690110034
817753-B21	HPE Ethernet 25Gb 2-port 640SFP28 Adapter	HP_2420110034
P21927-B21	HPE Ethernet 100Gb 2-port QSFP28 MCX516A-CCHT Adapter	MT_0000000417
P10112-B21	HPE Ethernet 10/25Gb 2-port SFP28 MCX562A-ACAI OCP3 Adapter	MT_0000000241
P13188-B21	HPE Ethernet 10/25Gb 2-port SFP28 MCX512F-ACHT Adapter	MT_0000000416
P11341-B21	HPE Ethernet 10Gb 2-port SFP+ MCX4621A-ACAB OCP3 Adapter	MT_0000000238
P21930-B21	HPE Ethernet 10Gb 2-port SFP+ MCX4121A-XCHT Adapter	MT_0000000414
874253-B21	HPE Ethernet 100Gb 1-port 842QSFP28 Adapter	HPE0000000014
P25960-B21	HPE Ethernet 100Gb 2-Port QSFP56 MCX623106AS-CDAT Adapter	MT_0000000437
P10180-B21	HPE Ethernet 200Gb 1-port QSFP56 MCX623105AS-VDAT Adapter	MT_0000000435
P06154-B21	HPE InfiniBand HDR/Ethernet 200Gb 1-port 940QSFP56 x16 Adapter	HPE0000000034
P06250-B21	HPE InfiniBand HDR100/Ethernet 100Gb 1-port 940QSFP56 x16 Adapter	HPE0000000035
P06251-B21	HPE InfiniBand HDR100/Ethernet 100Gb 2-port 940QSFP56 x16 Adapter	HPE0000000036
P23664-B21	HPE InfiniBand HDR/Ethernet 200Gb 1-port MCX653105A-HDAT QSFP56 x16 Adapter	MT_0000000451
P23665-B21	HPE InfiniBand HDR100/Ethernet 100Gb 1-port MCX653105A-ECAT QSFP56 x16 Adapter	MT_0000000452
P23666-B21	HPE InfiniBand HDR100/Ethernet 100Gb 2-port MCX653106A-ECAT QSFP56 x16 Adapter	MT_0000000453

nmlx5_en Driver Component for VMware 7.0

Version: 2020.05.26 (**Recommended**)

Filename: cp043205.compsig; cp043205.zip

Important Note!

Known Issues in version 4.19.70.1:

- SR-IOV is not supported while ENS is enabled.
- Live unload of the driver is not supported. Doing so may cause a PSOD if the max_vfs parameter is set.
- The maximum number of established active RDMA connections (QPs) is currently 5000.
- ENS is currently not supported in ConnectX-6 Dx adapter cards.
Workaround: Use non ENS DVS for ConnectX-6 Dx cards.
- Setting ETS value to 0 may cause WQE timeout.
Workaround: Set ETS value of 1 instead of 0.
- The 'esxcli mellanox uplink link info -u <vmmnic_name>' command reports the 'Auto negotiation' capability always as 'true'.
- SMP MADS (ibnetdiscover, sminfo, iblinkinfo, smpdump, ibqueryerr, ibdiagnet and smpquery) are not supported on the VFs.
- Although the max_vfs module parameter range is "0-128", due to firmware limitations, the following are the supported VFs per single port devices:
 - ConnectX-4 / ConnectX-5: up to 127

Fixes

No fixes are included in version 4.19.70.1:

Enhancements

No Changes and New Features are included in smart component version 2020.05.26:

New features and changes in version 4.19.70.1:

- Disabled the option of shutting down the link due to power limitation.
- Support for trusting Differentiated Services Code Point (DSCP) and setting default value for RoCE traffic.
- New counter that enables the user to query per Virtual Function counters.
- RX out-of-buffer counter to indicate any lack of software receive buffers.
- support for Data Center Bridging Capability Exchange (DCBx) protocol. DCBx works with LLDP to allow switches to exchange information about their Data Center Bridging (DCB) capabilities and configuration and automatically negotiate common Priority-Based Flow Control (PFC) parameters.
- Module parameter to enforce specific RoCE version.
- Support for setting the minimal bandwidth guarantee for traffic classes (TCs).

Supported Devices and Features

HPE Part Number	Device Name	PSID
825110-B21	HPE InfiniBand EDR/Ethernet 100Gb 1-port 840QSFP28 Adapter	HP_2180110032
825111-B21	HPE InfiniBand EDR/Ethernet 100Gb 2-port 840QSFP28 Adapter	HP_2190110032
872726-B21	HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter	HPE000000009
879482-B21	HPE InfiniBand FDR/Ethernet 40/50Gb 2-port 547FLR-QSFP Adapter	HPE0000000022
868779-B21	HPE Synergy 6410C 25/50Gb Ethernet Adapter	HPE0000000006
P11338-B21	HPE Ethernet 10Gb 2-port 548SFP+ Adapter	HP_1200111023
817749-B21	HPE Ethernet 25Gb 2-port 640FLR-SFP28 Adapter	HP_2690110034
817753-B21	HPE Ethernet 25Gb 2-port 640SFP28 Adapter	HP_2420110034
P24837-B21	HPE Ethernet 10/25Gb 2-port 642SFP28 Adapter	HPE0000000054
874253-B21	HPE Ethernet 100Gb 1-port 842QSFP28 Adapter	HPE0000000014
P06154-B21	HPE InfiniBand HDR/Ethernet 200Gb 1-port 940QSFP56 x16 Adapter	HPE0000000034
P06250-B21	HPE InfiniBand HDR100/Ethernet 100Gb 1-port 940QSFP56 x16 Adapter	HPE0000000035
P06251-B21	HPE InfiniBand HDR100/Ethernet 100Gb 2-port 940QSFP56 x16 Adapter	HPE0000000036

VMware ESXi 7.0 MST Drivers Offline Bundle for Mellanox Adapters

Version: 4.14.3.3 (**Recommended**)

Filename: Mellanox-NATIVE-NMST_4.14.3.3-1OEM.700.1.0.15525992_16211416.zip

Prerequisites

NA

Enhancements

VM70 nmst 4.14.3.3

Driver - System Management

HPE CRU Native Driver for ESXi 7.0

Version: 7.0.10 (**Recommended**)

Filename: cru_driver_700.10.16_1OEM.700.0.0.14828939_signed_component_15675715.zip

Enhancements

Support for VMware ESXi 7.0

Firmware - Network

Broadcom NetXtreme-E Online Firmware Upgrade Utility for VMware

Version: 5.11.6 (**Optional**)

Filename: CP043168.compsig; CP043168.zip

Important Note!

HPE recommends *Broadcom NetXtreme-E Drivers for VMware*, versions 216.0.54.0 or later, for use with this firmware.

This software package contains NVM Image version 216.0.333.11 with the following firmware versions:

NIC	Bootcode Version	NCSI Version	MBA Version	UEFI Version	CCM Version	RoCE Version
HPE Ethernet 10/25Gb 2-port SFP28 BCM57414 OCP3 Adapter						

HPE Ethernet 10/25Gb 2-port SFP28 BCM57414 Adapter						
HPE Ethernet 10Gb 2-port BaseT BCM57416 OCP3 Adapter	214.4.91.1	214.4.42.1	2214.0.241.0	214.0.305.0	216.0.52.1	214.0.194.0
HPE Ethernet 10Gb 2-port BaseT BCM57416 Adapter						
HPE Ethernet 10Gb 2-port SFP+ BCM57412 OCP3 Adapter						
HPE Ethernet 10Gb 2-port SFP+ BCM57412 Adapter						

Prerequisites

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

Enhancements

Initial release.

Supported Devices and Features

This product supports the following network adapters:

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

HPE Blade Intel Online Firmware Upgrade Utility for VMware
Version: 1.1.2 **(Optional)**
Filename: CP042573.compsig; CP042573.zip

Important Note!

HPE recommends the *HPE Blade Intel ixgben Driver for VMware vSphere 7.0*, version 2020.06.01 or later, for use with this firmware.

HPE recommends the *HPE Blade Intel ixgben Driver for VMware vSphere 6.7*, version 2019.12.20 or later, for use with this firmware.

HPE recommends the *HPE Blade Intel ixgben Driver for VMware vSphere 6.5*, version 2019.12.20 or later, for use with this firmware.

Prerequisites

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

Enhancements

This product now supports VMware ESXi 7.0.

Supported Devices and Features

This package supports the following network adapters:

- HPE Ethernet 10Gb 2-port 560FLB Adapter
- HPE Ethernet 10Gb 2-port 560M Adapter

HPE Blade QLogic NX2 Online Firmware Upgrade Utility for VMware
Version: 1.1.1 **(Optional)**
Filename: CP042923.compsig; CP042923.zip

Important Note!

HPE recommends the *HPE Blade QLogic NX2 10/20 GbE Multifunction Driver for VMware vSphere 7.0*, version 2020.06.01 or later, for use with this firmware.

HPE recommends the *HPE Blade QLogic NX2 10/20 GbE Multifunction Driver for VMware vSphere 6.7*, version 2019.12.20 or later, for use with this firmware.

HPE recommends the *HPE Blade QLogic NX2 10/20 GbE Multifunction Driver for VMware vSphere 6.5*, version 2019.12.20 or later, for use with this firmware.

Prerequisites

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

Enhancements

This product now supports VMware vSphere 7.0.

Supported Devices and Features

This product supports the following network adapters:

- HPE FlexFabric 10Gb 2-port 534M Adapter
- HPE FlexFabric 10Gb 2-port 536FLB Adapter
- HPE FlexFabric 20Gb 2-port 630FLB Adapter
- HPE FlexFabric 20Gb 2-port 630M Adapter

HPE Broadcom NetXtreme-E Online Firmware Upgrade Utility for VMware
Version: 5.11.6 **(Optional)**
Filename: CP043300.compsig; CP043300.zip

Important Note!

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

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

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

Prerequisites

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

Fixes

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

Supported Devices and Features

This product supports the following network adapters:

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

HPE Broadcom NX1 Online Firmware Upgrade Utility for VMware

Version: 1.27.5 (**Optional**)

Filename: CP043297.compsig; CP043297.zip

Important Note!

This software package contains combo image v20.16.31 with the following firmware versions:

NIC	Boot Code Version	PXE Version	NCSI Version	UEFI Version	CCM Version
HPE Ethernet 1Gb 2-port 330i Adapter (22BD)	2.10	21.6.0	1.5.18	21.6.5	216.0.49.0
HPE Ethernet 1Gb 4-port 331i Adapter (22BE)	1.46	21.6.0	1.5.18	21.6.5	216.0.49.0
HPE Ethernet 1Gb 4-port 331FLR Adapter					
HPE Ethernet 1Gb 4-port 331T Adapter					
HPE Ethernet 1Gb 2-port 332i Adapter (22E8)	1.40	21.6.0	1.5.18	21.6.5	216.0.49.0
HPE Ethernet 1Gb 2-port 332T Adapter					

Prerequisites

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

Fixes

This product corrects the wrong spare number while it was originally not the same as what was written on the label of package.

Supported Devices and Features

This product supports the following network adapters:

- HPE Ethernet 1Gb 2-port 330i Adapter (22BD)
- HPE Ethernet 1Gb 4-port 331i Adapter (22BE)
- HPE Ethernet 1Gb 4-port 331FLR Adapter
- HPE Ethernet 1Gb 4-port 331T Adapter
- HPE Ethernet 1Gb 2-port 332i Adapter (22E8)
- HPE Ethernet 1Gb 2-port 332T Adapter

HPE Firmware Flash for Emulex Converged Network Adapters for VMware vSphere 7.0

Version: 2020.09.01 (b) (**Recommended**)

Filename: CP044565.compsig; CP044565.zip

Important Note!

Release Notes:

[HPE Emulex Adapter Release Notes](#)

Beginning with software release 11.2, Fibre Channel (LightPulse) adapters and Converged Network adapters (OneConnect) have independent software kits.

It is highly recommended that you review the Broadcom Software Kit Migration User Guide for more detailed information regarding this change.

To obtain the guide:

1. Go to <http://www.hpe.com/support/manuals>
2. Using the HPE model number as your guide, enter the adapter model number in the Search products box, and then click >>.

This document provides special instructions and considerations for using the driver kits for FC and CNA adapters.

Special cases include those in which pre-11.2 (original) drivers and applications are replaced by the new 11.2 drivers and applications, and cases in which inbox drivers are replaced by the new 11.2 out-of-box (OOB) drivers.

Fixed the following:

UEFI:

- HPE FlexFabric 20Gb 2-port 650FLB Adapter and HPE FlexFabric 20Gb 2-port 650M Adapter does not complete to create boot source on 2nd port

Firmware:

- Light Emitting Diode(LED) is in invalid state when disable the port under Unified Extensible Firmware Interface (UEFI)
- Duplicate Entries found in firmware report under NIC details for few adaptors.
- Full adapter name is not displayed for HPE FlexFabric 20Gb 2-port 650M Adapter in some Rom Based Setup Utility (RBSU).
- On any HPE ProLiant server configured with the HPE Emulex XE-102 Based network adapter HPE FlexFabric 10Gb 2-port 556FLR-T Adapter with CNA (XE100 series) firmware 12.0.1110.0, 12.0.1110.10, or 12.0.1110.11 (or later), the network adapters may experience a "link down" state that is not recoverable by a power-cycle or reset.

For more details please go through the document titled "HPE ProLiant Servers Configured With Certain HPE Emulex XE-102 Based Network Adapters May Experience Link Down Due To a Firmware Issue" at the following link: https://support.hpe.com/hpsc/public/docDisplay?docId=emr_na-a00099050en_us

This Firmware package contains following firmware version:

Adapter	Speed	Firmware
HPE FlexFabric 10Gb 2-port 556FLR-T Adapter	10Gb	12.0.1280.5
HPE FlexFabric 10Gb 2-port 556FLR-SFP+ Adapter	10Gb	12.0.1280.5
HPE FlexFabric 20Gb 2-port 650M Adapter	20Gb	12.0.1280.5
HPE FlexFabric 20Gb 2-port 650FLB Adapter	20Gb	12.0.1280.5
HPE CN1200E Dual Port Converged Network Adapter	20Gb	12.0.1280.5
HPE CN1200E-T Dual Port Adapter	20Gb	12.0.1280.5

Prerequisites

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

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

Fixes

Fixed the following:

UEFI:

- HPE FlexFabric 20Gb 2-port 650FLB Adapter and HPE FlexFabric 20Gb 2-port 650M Adapter does not complete to create boot source on 2nd port

Firmware:

- Light Emitting Diode(LED) is in invalid state when disable the port under Unified Extensible Firmware Interface (UEFI)
- Duplicate Entries found in firmware report under NIC details for few adaptors.
- Full adapter name is not displayed for HPE FlexFabric 20Gb 2-port 650M Adapter in some Rom Based Setup Utility (RBSU).
- On any HPE ProLiant server configured with the HPE Emulex XE-102 Based network adapter HPE FlexFabric 10Gb 2-port 556FLR-T Adapter with CNA (XE100 series) firmware 12.0.1110.0, 12.0.1110.10, or 12.0.1110.11 (or later), the network adapters may experience a "link down" state that is not recoverable by a power-cycle or reset.

For more details please go through the document titled "HPE ProLiant Servers Configured With Certain HPE Emulex XE-102 Based Network Adapters May Experience Link Down Due To a Firmware Issue" at the following link: https://support.hpe.com/hpsc/public/docDisplay?docId=emr_na-a00099050en_us

Enhancements

Updated CNA (XE100 series) firmware

Firmware

Contains:

CNA (XE100 series) firmware 12.0.1280.5

Supported Devices and Features

This component is supported on following Emulex Converged Network Adapters:

XE100 Series:

- HPE CN1200E Dual Port Converged Network Adapter
- HPE FlexFabric 20Gb 2-port 650FLB Adapter
- HPE FlexFabric 20Gb 2-port 650M Adapter
- HPE CN1200E-T Adapter
- HPE FlexFabric 10Gb 2-port 556FLR-SFP+ Adapter
- HPE FlexFabric 10Gb 2-port 556FLR-T Adapter

HPE Intel Online Firmware Upgrade Utility for VMware

Version: 3.13.15 (Optional)

Filename: CP041856.compsig; CP041856.zip

Important Note!

HPE recommends at least one of the following drivers, as appropriate for your device, for use with this firmware:

- HPE Intel igbn Drivers for VMware, versions 2020.09.14
- HPE Intel ixgben Drivers for VMware, versions 2020.09.14
- HPE Intel i40en Drivers for VMware, versions 2020.09.14

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

NIC	EEPROM/NVM Version	OROM Version	Single NVM Version
HP Ethernet 1Gb 2-port 361i Adapter	8000106F	1.2688.0	N/A
HP Ethernet 1Gb 2-port 361T Adapter	80000F91	1.2688.0	N/A
HP Ethernet 1Gb 2-port 363i Adapter	80000D00	1.2688.0	N/A
HPE Ethernet 1Gb 4-port 366i Communication Board	80000EBF	1.2688.0	N/A
HP Ethernet 1Gb 4-port 366i Adapter	8000105E	1.2688.0	N/A
HP Ethernet 1Gb 4-port 366FLR Adapter	80001060	1.2688.0	N/A
HP Ethernet 1Gb 4-port 366T Adapter	8000105F	1.2688.0	N/A
HPE Ethernet 1Gb 2-port 368i Adapter	80002192	1.2688.0	N/A
HPE Ethernet 1Gb 2-port 368FLR-MMT Adapter	8000218B	1.2688.0	N/A
HPE Ethernet 1Gb 4-port 369i Adapter	8000218F	1.2688.0	N/A
HP Ethernet 10Gb 2-port 560FLR-SFP+ Adapter	80000838	1.2688.0	N/A
HPE Ethernet 10Gb 2-port 560SFP+ Adapter	80000835	1.2688.0	N/A
HPE Ethernet 10Gb 2-port 568i Adapter	80002190	1.2688.0	N/A
HPE Ethernet 10Gb 2-port 568FLR-MMSFP+ Adapter	8000218B	1.2688.0	N/A
HPE Ethernet 10Gb 2-port 568FLR-MMT Adapter	8000218B	1.2688.0	N/A
HPE Ethernet 10Gb 2-port 563i Adapter	800035C0	1.1375.0	N/A
HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	800083C2	1.2688.0	10.53.7
HPE Ethernet 10Gb 2-port 562FLR-T Adapter	800011BD	1.2688.0	10.53.4
HPE Ethernet 10Gb 2-port 562SFP+ Adapter	800083C1	1.2688.0	10.53.7
HPE Ethernet 10Gb 2-port 562T Adapter	8000115A	1.2688.0	10.53.3

The combo image v1.2688.0 includes: Boot Agent: 1GbE - v1.5.88, 10GbE - v2.4.44, 40GbE - v1.1.16 & UEFI Drivers: 1GbE - v9.2.06, 10GbE - v7.6.13, 40GbE - v4.1.20

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

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

Prerequisites

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

Fixes

This product addresses an issue where ECC error occurs when running failed recovery with HPE Ethernet 10Gb 2-port 562T Adapter and HPE Ethernet 10Gb 2-port 562FLR-T Adapter.

Enhancements

This product now supports VMware vSphere 7.0.

Supported Devices and Features

This package supports the following network adapters:

- HP Ethernet 1Gb 4-port 366T Adapter
- HP Ethernet 1Gb 4-port 366FLR Adapter
- HPE Ethernet 1Gb 2-port 368FLR-MMT Adapter
- HP Ethernet 1Gb 2-port 361T Adapter
- HPE Ethernet 10Gb 2-port 568FLR-MMSFP+ Adapter
- HPE Ethernet 10Gb 2-port 562T Adapter
- HPE Ethernet 10Gb 2-port 562SFP+ Adapter
- HPE Ethernet 10Gb 2-port 562FLR-T Adapter
- HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter
- HPE Ethernet 10Gb 2-port 560SFP+ Adapter
- HP Ethernet 10Gb 2-port 560FLR-SFP+ Adapter
- HPE Ethernet 10Gb 2-port 568i Adapter
- HPE Ethernet 1Gb 4-port 369i Adapter
- HPE Ethernet 1Gb 4-port 366i Communication Board
- HPE Ethernet 1Gb 2-port 368i Adapter
- HP Ethernet 1Gb 2-port 363i Adapter
- HP Ethernet 1Gb 4-port 366i Adapter
- HP Ethernet 1Gb 2-port 361i Adapter
- HPE Ethernet 10Gb 2-port 568FLR-MMT Adapter

HPE QLogic FastLinQ Online Firmware Upgrade Utility for VMware

Version: 4.12.12 (Optional)

Filename: CP041875.compsig; CP041875.zip

Important Note!

HPE recommends *HPE QLogic FastLinQ 10/25/50GbE Multifunction Drivers for VMware*, versions 2020.09.14 or later, for use with this firmware.

This software package contains combo image version v8.52.12 includes:

- Boot Code (MFW): 8.52.9.0
- UEFI: 4.1.10.2
- PXE: 2.0.19

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

Prerequisites

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

Fixes

- This product corrects the abnormal disconnection of iLO web page while performing under Shared Networking on Flexible-LOM.
- This product addresses an issue where the HPE Ethernet 10/25Gb 2-port 622FLR-SFP28 adapter and HPE Ethernet 10/25Gb 2-port 621SFP28 Adapter UMCE (Uncorrectable Machine Check Exception) was followed by Unrecoverable I/O error, Uncorrectable PCI express error on Server and one of the ports suddenly no longer can send or receive traffic.
- This product addresses an issue where driver doesn't load upon booting up by correct memory relocation.
- This product addresses an issue where adapter may disappear during POST if the adapter is in heavy traffic during the system boot up.

Enhancements

This product improves the functionality for the MBI firmware update.

Supported Devices and Features

This product supports the following network adapters:

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

HPE QLogic NX2 Online Firmware Upgrade Utility for VMware

Version: 1.27.11 **(Optional)**

Filename: CP041878.compsig; CP041878.zip

Important Note!

HPE recommends HPE QLogic NX2 10/20GbE Multifunction Drivers for VMware, versions 2020.09.14 or later, for use with this firmware.

This software package contains combo image v7.18.69 with the following firmware versions:

NIC	Boot Code Version	PXE Version	UEFI Version	iSCSI Version	FCoE Version	CCM Version	L2 Version
HP Ethernet 10Gb 2-port 530SFP+ Adapter HP Ethernet 10Gb 2-port 530T Adapter	7.15.77	7.14.13	8.7.2	n/a	n/a	7.14.4	7.12.25
HP Ethernet 10Gb 2-port 533FLR-T Adapter HP FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter HPE FlexFabric 10Gb 4-port 536FLR-T Adapter HP StoreFabric CN1100R Dual Port Converged Network Adapter HPE StoreFabric CN1100R-T Converged Network Adapter	7.15.77	7.14.13	8.7.2	7.14.0	7.14.3	7.14.4	7.12.25

Prerequisites

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

Fixes

- This product corrects the display problem of the adapter name under RBSU.
- This products corrects some issues about the thermal reporting and temperature threshold control of the adapter.
- This product addresses an error when the MBI firmware update is executed in the secure boot mode.
- This product addresses an issue where unexpected UMCE(Uncorrectable Machine Check Exception) appeared when powering on the system with NPAR(Network Partitioning) enabled.

Enhancements

This product improves the functionality for the MBI firmware update.

Supported Devices and Features

This product supports the following network adapters:

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

Intel Online Firmware Upgrade Utility for VMware

Version: 3.13.12 **(Optional)**

Filename: CP041853.compsig; CP041853.zip

Important Note!

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

NIC	EEPROM/NVM Version	OROM Version
HPE Ethernet 1Gb 4-port BaseT I350-T4 Adapter	80001099	1.2684.0
HPE Ethernet 1Gb 4-port BaseT I350-T4 OCP3 Ada...	80001097	1.2684.0
Intel(R) I350 Gigabit Network Connection (2-port)	8000108E	1.2684.0
Intel(R) I350 Gigabit Network Connection (4-port)	8000108F	1.2684.0

The combo image v1.2658.0 includes: Boot Agent: 1GbE - v1.5.88 & UEFI Drivers: 1GbE - v9.2.05.

Prerequisites

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

Enhancements

This product now supports HPE ProLiant MicroServer Gen10 Plus and HPE ProLiant XL225n Gen10 Plus.

Supported Devices and Features

This package supports the following network adapters:

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

Marvell FastLinQ Online Firmware Upgrade Utility for VMware

Version: 4.12.14 (**Optional**)

Filename: CP042279.compsig; CP042279.zip

Important Note!

This software package contains combo image v8.52.21. This combo image includes:

- Boot Code (MFW): 8.52.9.0
- UEFI: 6.1.7.3

Prerequisites

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

Fixes

- This product corrects an issue of inconsistent LED behavior while linking up with different speed.
- This product corrects an issue about failing to restore the factory default value by pressing F7.
- This product addresses an issue where driver doesn't load upon booting up by correct memory relocation.
- This product addresses an issue where adapter may disappear during POST if the adapter is in heavy traffic during the system boot up.

Enhancements

This product now supports firmware upgrade in the ESXi 7.0.

Supported Devices and Features

This product supports the following network adapters:

- HPE Ethernet 10/25Gb 2-port SFP28 QL41232HOCU OCP3 Adapter
- HPE Ethernet 10/25Gb 2-port SFP28 QL41232HLCU Adapter
- HPE Ethernet 10Gb 4-port SFP+ QL41134HLCU Adapter
- HPE Ethernet 10Gb 2-port BaseT QL41132HLRJ Adapter
- HPE Ethernet 10Gb 2-port BaseT QL41132HQRJ OCP3 Adapter
- HPE Ethernet 10Gb 2-port SFP+ QL41132HOCU OCP3 Adapter
- HPE Ethernet 10Gb 2-port SFP+ QL41132HLCU Adapter

Online Firmware Upgrade Utility (ESXi 7.0) for HPE Ethernet 10Gb 2-port 548SFP+ Adapter

Version: 1.0.0 (**Recommended**)

Filename: CP044411.compsig; CP044411.zip

Important Note!

No known issues were included in firmware version 14.27.4000:

Fixes

Following issues have been fixed in version 14.27.4000:

- An issue that caused the sent packet to hang while the device entered FLR mode.
- Enabled Bar configuration bitwise by applying the write_en bitmask.
- A rare case where the device froze while running the sw reset flow under heavy stress and with many open resources.
- Low PXE performance while using the VSC to trigger the send_ring_doorbells.
- An error that prevented the completions (CO) from being completed due to a race condition in the firmware transport error handlers, and the error stressors, where the error stressors would hang the firmware transport error handler flow.
- An issue that caused the fragmented IP packets to drop was fixed.

Enhancements

Firmware for the following device is updated to 14.27.4000:

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

Following New features and Changes are included in version 14.27.4000:

- Added mlxconfig support for power reduction: PCI CAP AUTO_POWER_SAVE_LINK_DOWN
 - PCI CAP
 - AUTO_POWER_SAVE_LINK_DOWN
- Added the following segments, as appeared in the PRM, to the Resource Dump:
 - PRM_QUERY_OP
 - PRM_QUERY_CO
 - PRM_QUERY_MKEY
 - QUERY_VNIC_ENV

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 7.0) for HPE Mellanox Ethernet only adapters
Version: 1.0.0 (**Recommended**)
Filename: CP044390.compsig; CP044390.zip

Important Note!

The Firmware Upgrade Utility has been split into 2 packages for Mellanox Ethernet Only NIC adapters, one supporting Synergy platforms and the other supporting ProLiant and Apollo platforms. This package supports Mellanox Ethernet Only NIC adapters on ProLiant and Apollo servers.

Known Issues for FW version 2.42.5044 :

- When using the QSFP module RTX320-581, and performing a driver restart for the firmware upgrade/downgrade to take effect, the link does not come up.
- 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 PF is passed through to a VM requires a reboot of the Hypervisor.
- Downgrade to previous GA requires server reboot. Downgrading from v2.30.8000 or later to an earlier version than 2.30.8000 requires server reboot. 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.
- 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
- RH6.3 Inbox driver causes kernel panic when SR-IOV is enabled on VPI cards due to driver compatibility issue.
- 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.
- MFT tools 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.
- 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.
- Firmware downgrade message When downgrading from firmware v2.11.0000 and using MFT 3.0.0-3
- RM#DMFS should not be enabled when working with InfiniBand on MLNX_OFED-2.0.3
- RM#VPD read-only fields are writable.
- Increasing SymbolErrorCounter When working in 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.
- ConnectX-3 Pro VF device ID is presented the same as ConnectX-3 VF device ID due to driver limitations.
- RSOD while running PXE (legacy) on G9 servers. This occurs only when PXE boot fails and BIOS boots from HDD. Currently it is pending BIOS fix.
- Changing port protocol from ETH to IB on port with NCSI/IPMI enabled while the port is connected to ETH switch is not supported.
- RDP over IPv6 is currently not functional.
- 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 mlx-4_en_get_drvinfo() that is called from asynchronous event handler.
- 832298: When running ibdump, loopback traffic is mirroring into the kernel driver.
- AHS reports wrong MTU size
- RM#846523: MAC address that are set from the OS using ifconfig are not reflected in the OCBB buffer

Known Issues for FW version 14.27.24000 and 16.27.2008:

- When working with an NVME offload QP that is created with a unaligned page size (page_offset != 0), the QP moves to an error state on the first posted WQE.
Workaround: Create an NVME offload QP with page an aligned size (page_offset = 0).
- Flow Metering capability is not functional in firmware v16.27.1016.
Workaround: To use Flow Metering, use older firmware versions.
- mlxconfig query for the BOOT_INTERRUPT_DIS TLV shows a wrong value in the "current value" field.
Workaround: Use "next boot" indication to see the right value.
- If Relaxed Ordering is disabled by running the "setpci" command, it will not be functional even after re-enabling it by running the "setpci" command again.
- In Socket Direct supported cards, after performing mlxfwreset, the expansion ROM register might be writable on all hosts for less than 1 second.
- quota_exceeded_command and invalid_command c

Prerequisites

Use iLO5 firmware version 2.30 or higher with ConnectX4/ConnectX5 firmware version 14.27.4000/16.27.2008 respectively. Thermal sensor reporting on the adapter will not be functional with older versions of iLO5 firmware.

Fixes

Fixes submitted in version 2.42.5044 :

- An issue that prevented the firmware from detecting a link_down event thus preventing the IB bond interface from going to a failover mode.

Following issues have been fixed in firmware version 14.27.4000:

- The sent packet hung while the device entered FLR mode.
- Enabled Bar configuration bitwise by applying the write_en bitmask.
- The device hung while running the sw reset flow under heavy stress and with many open resources.
- The completions (CQ) completed due to a race condition in the firmware transport error handlers, and the error stressors, where the error stressors would hang the firmware transport error handler flow.
- The fragmented IP packets were dropped.

Following issues have been fixed in firmware version 16.27.2008:

- Although the effective BER (after FEC) was expected to meet the design targets (e.g. 10e-14 or lower), occasionally it was higher.
- High BER occurred when connecting cables of type 0.5/1m DAC to an HDR speed.

- The PCIe Tx parameters did not load correctly when the speed was changed after the PCIe link was disabled.
- The desched_threshold field did not work properly.
- The "roce_adp_retrans" counter was presenting the values of the "local_ack_timeout_err" counter.
- If Relaxed Ordering was disabled by running the "setpci" command, it would not be functional even after re-enabling it by running the "setpci" command again.

Enhancements

Firmware for the following devices are updated to 2.42.5044 :

779799-B21 (HP Ethernet 10G 2-port 546FLR-SFP+ Adapter)
779793-B21 (HP Ethernet 10G 2-port 546SFP+ Adapter)

Firmware for the following devices are updated to 14.27.4000:

817749-B21 (HPE Ethernet 25Gb 2-port 640FLR-SFP28 Adapter)

Firmware for the following devices are updated to 14.27.4000:

817753-B21 (HPE Ethernet 25Gb 2-port 640SFP28 Adapter)

Firmware for the following device is updated to 16.27.2008:

874253-B21 (HPE Ethernet 100Gb 1-port 842QSFP28 Adapter)

New features and changes in version 16.27.2008:

- Added the following segments, as appeared in the PRM, to the Resource Dump:
 - PRM_QUERY_OP
 - PRM_QUERY_CO
 - PRM_QUERY_MKEY
 - QUERY_VNIC_ENV

New features and changes in version 14.27.4000:

- Added mlxconfig support for power reduction:
 - PCI CAP
 - AUTO_POWER_SAVE_LINK_DOWN

Supported Devices and Features

HPE Part Number	Mellanox Ethernet Only Adapters	PSID
779793-B21	HP Ethernet 10Gb 2-port 546SFP+ Adapter	HP_1200111023
779799-B21	HP Ethernet 10Gb 2-port 546FLR-SFP+ Adapter	HP_2240110004
817749-B21	HPE Ethernet 25Gb 2-port 640FLR-SFP28 Adapter	HP_2690110034
817753-B21	HPE Ethernet 25Gb 2-port 640SFP28 Adapter	HP_2420110034
874253-B21	HPE Ethernet 100Gb 1-port 842QSFP28 Adapter	HPE0000000014

Online Firmware Upgrade Utility (ESXi 7.0) for HPE Mellanox VPI (Ethernet and Infiniband mode) ConnectX4 and ConnectX5 devices on VMware ESXi 7.0
Version: 1.0.0 (**Recommended**)
Filename: CP044083.compsig; CP044083.zip

Important Note!

Known Issues with firmware version 16.27.2008:

- When working with an NVME offload QP that is created with a unaligned page size (page_offset != 0), the QP moves to an error state on the first posted WQE.
Workaround: Create an NVME offload QP with page an aligned size (page_offset = 0).
- Flow Metering capability is not functional in firmware v16.27.1016.
Workaround: To use Flow Metering, use older firmware versions.
- mlxconfig query for the BOOT_INTERRUPT_DIS TLV shows a wrong value in the "current value" field.
Workaround: Use "next boot" indication to see the right value.
- If Relaxed Ordering is disabled by running the "setpci" command, it will not be functional even after re-enabling it by running the "setpci" command again.
- In Socket Direct supported cards, after performing mlxfwreset, the expansion ROM register might be writable on all hosts for less than 1 second.
- quota_exceeded_command and invalid_command counters do not function properly. In this firmware version, the quota_exceeded_command counter's value always remains 0, whereas the invalid_command counter increases only for some Ethernet commands failure events.

Prerequisites

Use iLO5 firmware version 2.30 or higher with ConnectX4/ConnectX5 firmware version 14.27.4000/16.27.2008 respectively. Thermal sensor reporting on the adapter will not be functional with older versions of iLO5 firmware.

Fixes

Following issues have been fixed in firmware version 16.27.2008:

- Although the effective BER (after FEC) was expected to meet the design targets (e.g. 10e-14 or lower), occasionally it was higher.
- High BER occurred when connecting cables of type 0.5/1m DAC to an HDR speed.
- The PCIe Tx parameters did not load correctly when the speed was changed after the PCIe link was disabled.
- The desched_threshold field did not work properly.
- The "roce_adp_retrans" counter was presenting the values of the "local_ack_timeout_err" counter.
- If Relaxed Ordering was disabled by running the "setpci" command, it would not be functional even after re-enabling it by running the "setpci" command again.

Following issues have been fixed in firmware version 12.27.4000:

- The device hung while running the sw reset flow under heavy stress and with many open resources.
- Low PXE performance observed while using the VSC to trigger the send_ring_doorbells.
- IPoB and DC would not work together.
- DC functionality issues.

Enhancements

Firmware for the following devices are updated to 12.27.4000:

825110-B21 (HPE InfiniBand EDR/Ethernet 100Gb 1-port 840QSFP28 Adapter)
825111-B21 (HPE InfiniBand EDR/Ethernet 100Gb 2-port 840QSFP28 Adapter)

New Feature and Changes in Version 12.27.4000:

- Added the following segments, as appeared in the PRM, to the Resource Dump:
 - PRM_QUERY_OP
 - PRM_QUERY_CO
 - PRM_QUERY_MKEY
 - QUERY_VNIC_ENV

Firmware for the following devices are updated to 16.27.2008:

879482-B21 (HPE InfiniBand FDR/Ethernet 40/50Gb 2-port 547FLR-QSFP Adapter)
872726-B21 (HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter)

New Feature and Changes in Version 16.27.2008:

This release contains important reliability improvements and security hardening enhancements. Upgrade the firmware of the device to this release to improve the devices' firmware security and reliability.

- Improved init_hca performance in Parallel Function initialization.

Supported Devices and Features

HPE Part Number	Device Name	PSID
825110-B21	HPE InfiniBand EDR/Ethernet 100Gb 1-port 840QSFP28 Adapter	HP_2180110032
825111-B21	HPE InfiniBand EDR/Ethernet 100Gb 2-port 840QSFP28 Adapter	HP_2190110032
872726-B21	HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter	HPE0000000009
879482-B21	HPE InfiniBand FDR/Ethernet 40/50Gb 2-port 547FLR-QSFP Adapter	HPE0000000022

Online Firmware Upgrade Utility (ESXi 7.0) for HPE Mellanox VPI (Ethernet and Infiniband mode) ConnectX6 devices on VMware ESXi 7.0

Version: 1.0.0 (Recommended)

Filename: CP044416.compsig; CP044416.zip

Important Note!

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

Prerequisites

Use iLO5 firmware version 2.30 or higher with ConnectX6 firmware version 20.27.6008. Thermal sensor reporting on the adapter will not be functional with older versions of iLO5 firmware.

Fixes

There are no new fixes in firmware version 20.27.6008.

Enhancements

Firmware for the following devices are updated to 20.27.6008:

HPE InfiniBand HDR/Ethernet 200Gb 1-port 940QSFP56 x16 Adapter - P06154-B21
HPE InfiniBand HDR100/Ethernet 100Gb 1-port 940QSFP56 x16 Adapter - P06250-B21
HPE InfiniBand HDR100/Ethernet 100Gb 2-port 940QSFP56 x16 Adapter - P06251-B21

New Features and Changes in Version 20.27.6008:

- The following are the minimal software/firmware versions that support PAM4 link speeds when connected using Mellanox NIC to Mellanox Switch and Mellanox NIC to 3rd Party Switches:
 - Mellanox Onyx: 3.9.0830-038
 - ConnectX-6: 20.27.2008*

*Note: NICs with this firmware version support Mellanox-to-Mellanox connectivity with PAM4 link speeds.
- Added support for the following features:
 - Enabled KP4RS FEC on Active Fiber cable up to 30m.
 - FDR protocol.
 - Enabled updating End-to-End (E2E) credit packets instantly.

Supported Devices and Features

HPE Part Number	Device Name	PSID
P06154-B21	HPE InfiniBand HDR/Ethernet 200Gb 1-port 940QSFP56 x16 Adapter	HPE0000000034
P06250-B21	HPE InfiniBand HDR100/Ethernet 100Gb 1-port 940QSFP56 x16 Adapter	HPE0000000035

Online Firmware Upgrade Utility (ESXi 7.0) for HPE Mellanox VPI (Ethernet and Infiniband mode) devices on VMware ESXi 7.0

Version: 1.0.0 (**Recommended**)

Filename: CP044389.compsig; CP044389.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 RTX320-581, 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). Mixburn/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 0xffff).
- 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 "mlxftop -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:

- o 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.
- o Improved the debug ability for command timeout cases.

New features and changes in firmware version 2.42.5700.

- o 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:

HP Part Number	Device Name	PSID
764282-B21	HP InfiniBand QDR/Ethernet 10Gb 2-port 544+M Adapter	HP_1350110023
764283-B21	HP InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+M Adapter	HP_1360110017
764284-B21	HP InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+QSFP Adapter	HP_1370110017
764285-B21	HP InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+FLR-QSFP Adapter	HP_1380110017
764286-B21	HP InfiniBand QDR/Ethernet 10Gb 2-port 544+FLR-QSFP Adapter	HP_1390110023

Online Firmware Upgrade Utility (ESXi 7.0) for Mellanox ConnectX6Dx Open Ethernet cards
Version: 1.0.0 (**Recommended**)
Filename: CP044406.compsig; CP044406.zip

Important Note!

This release contains important reliability improvements and security hardening enhancements. Upgrade the devices firmware to this release to improve the devices' firmware security and reliability.

Known Issues in firmware 22.27.6008:

- o The CRC is being removed despite using the keep_crc flag, and the byte count of the packet are counted without the CRC.
- o The port link might be unstable after phyless reset when the keep_link_up configuration is set to False, and phyless reset might be malfunction.
- o When the SLTP configuration is wrongly set, the "Bad status" explanation will not be presented (only error indication) to the user.
- o Modifying the Flow Control attributes during traffic might cause all packets to drop.
Workaround: If such scenario took place, perform the following:
 1. Restart the driver.
 2. Stop the traffic.
 3. Change the Flow Control attributes again.
- o On Dual-Port devices, and only after Rx buffer modification, resetting all Physical Functions over one port (through reboot / driver restart / FLR), while there are active Physical Functions over the second port (which caused the Rx buffer changes), will cause the Rx buffer default values to be restored, although not expected by the active Physical Function on the second port.
Workaround:
 - Re-apply the changes
 - Reset the functions from both ports together (driver restart / FLRs / reboot)
 - Power cycle or reset the firmware
- o After Shared Buffer modifications such as SBPR, SBPM, SBCM, the PFCC flow control modifications will override the previous Shared Buffer modifications.
Workaround: Apply Shared Buffer modifications after PFCC (flow control) modifications.
- o Phyless Reset is not supported when using Non-DME cables.
- o Phyless Reset is not supported when using a PAM4 mode.
- o When running several Phyless Reset iteration in sequence, the device may get stuck.
Workaround: Run a full reset (mlxfwreset) to release it.
- o Running several Phyless resets in a row might result in a race between the previous Phyless reset handling the action and the current one.
- o mlxconfig query for the BOOT_INTERRUPT_DIS TLV shows a wrong value in the "current value" field.
Workaround: Use "next boot" indication to see the right value.
- o PRBS is not functional when using Wedge switch.
- o 200GbE Optical cables in Auto-Negotiation mode work only in 200GbE
- o Linkup time to Wedge 100 Switch in Force mode with RS-FEC/No-FEC is 24 seconds.
- o When running MH TCP, few packets are dropped every second due to no Receive WQEs.
Workaround: Use 4K RX queue size: ethtool -G rx 4096
- o After programming firmware in LF, power-cycle must be recovered.
- o Under certain congestion conditions, where traffic packets are small, accuracy of the shared buffer configuration might not be achieved.
- o Software Reset does not work on ConnectX-6 Dx adapter cards.

Note: On Adapter Firmware rewrite scenario, SUM will always discover the Mellanox Open adapter firmware smart component as applicable and select it for deployment If the server iLO5 firmware version is older than 2.30.

Prerequisites

Use iLO5 firmware version 2.30 or higher with ConnectX6-Dx firmware version 22.27.6008. Thermal sensor reporting on the adapter will not be functional with older versions of iLO5 firmware.

Fixes

Following issues have been resolved in firmware version 22.27.6008:

- Encapsulated RoCE traffic to drop when IB padding was required.
- PortXmitWait HW counter to count when not expected due to an inaccuracy in the counter.
- On dual-port device after Rx buffer modification the Physical Function on the second port got restored although no expected. The Rx buffer changes when all Physical Functions resets over one port (through reboot /driver restart / FLR) while there were active Physical Functions over the second port.
- Previous Shared Buffer modifications being overruled after performing Shared Buffer modifications such as SBPR, SBPM, SBCM, the PFCC Flow Control).

Enhancements

Firmware for the following device is updated to 22.27.6008:

P25960-B21 (HPE Ethernet 100Gb 2-Port QSFP56 MCX623106AS-CDAT Adapter)

New features and changes in version 22.27.6008:

- The following are the minimal software/firmware versions that support PAM4 link speeds when connected using Mellanox NIC to Mellanox Switch and Mellanox NIC to 3rd Party Switches:
 - Mellanox Spectrum-3: 30.2007.1142
 - Mellanox Spectrum-2: 29.2007.1142
 - Switch SDK: 4.4.0920
 - Mellanox Onyx: 3.9.0830-038
 - SONiC/SAI: 201911
 - ConnectX-6 Dx: 22.27.2008
- *Note: NICs with this firmware version support Mellanox-to-Mellanox connectivity with PAM4 link speeds.
- Programmable Congestion Control (PCC) is at GA level.
- Enabled TLS offload v1.3 with key size 256.

Supported Devices and Features

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

Online Firmware Upgrade Utility (ESXi 7.0) for Mellanox Open Ethernet cards
Version: 1.0.0 (**Recommended**)
Filename: CP044391.zip; CP044391_part1.compsig; CP044391_part2.compsig

Important Note!

Known Issues in firmware 14.27.4000:

- "mlxconfig" query for the BOOT_INTERRUPT_DIS TLV shows a wrong value in the "current value" field.
- Due to the string DB not being updated after Live-Patch, the tracer cannot function after Live-Patch.
- Hardware arbitration is currently disabled in OCP3.0 cards. It will be supported on future releases for the same hardware.
- Since Packet Pacing enforce max_tc value is "1", features that require multiple TCs will not be active when this mode is available.
- Due to performance considerations, unicast loopback traffic will go through the NIC SX tables, and multicast loopback traffic will skip the NIC SX tables

Known Issues with firmware version 16.27.2008:

- When working with an NVME offload QP that is created with a unaligned page size (page_offset != 0), the QP moves to an error state on the first posted WQE.
Workaround: Create an NVME offload QP with page an aligned size (page_offset = 0).
- Flow Metering capability is not functional in firmware v16.27.1016.
Workaround: To use Flow Metering, use older firmware versions.
- mlxconfig query for the BOOT_INTERRUPT_DIS TLV shows a wrong value in the "current value" field.
Workaround: Use "next boot" indication to see the right value.
- If Relaxed Ordering is disabled by running the "setpci" command, it will not be functional even after re-enabling it by running the "setpci" command again.
- In Socket Direct supported cards, after performing mlxfwreset, the expansion ROM register might be writable on all hosts for less than 1 second.
- quota_exceeded_command and invalid_command counters do not function properly. In this firmware version, the quota_exceeded_command counter's value always remains 0, whereas the invalid_command counter increases only for some Ethernet commands failure events.

Note: On Adapter Firmware rewrite scenario, SUM will always discover the Mellanox Open adapter firmware smart component as applicable and select it for deployment If the server iLO5 firmware version is older than 2.30.

Prerequisites

Use iLO5 firmware version 2.30 or higher with ConnectX4/ConnectX5 firmware version 14.27.4000/16.27.2008 respectively. Thermal sensor reporting on the adapter will not be functional with older versions of iLO5 firmware.

Fixes

Following issues have been fixed in firmware version 16.27.2008:

- Although the effective BER (after FEC) was expected to meet the design targets (e.g. 10e-14 or lower), occasionally it was higher.
- High BER occurred when connecting cables of type 0.5/1m DAC to an HDR speed.
- The PCIe Tx parameters did not load correctly when the speed was changed after the PCIe link was disabled.
- The desched_threshold field did not work properly.
- The "roce_adp_retrans" counter was presenting the values of the "local_ack_timeout_err" counter.
- If Relaxed Ordering was disabled by running the "setpci" command, it would not be functional even after re-enabling it by running the "setpci" command again.

Following issues have been fixed in firmware version 14.27.4000:

- The device hung while running the sw reset flow under heavy stress and with many open resources.
- Low PXE performance observed while using the VSC to trigger the send_ring_doorbells.
- IPoIB and DC would not work together.
- DC functionality issues.

Enhancements

Firmware for the following devices is updated to 14.27.4000:

P21930-B21 (HPE Ethernet 10Gb 2-port SFP+ MCX4121A-XCAT Adapter)
P11341-B21 (HPE Ethernet 10Gb 2-port SFP+ MCX4621A-ACAB OCP3 Adapter)

Firmware for the following devices is updated to 16.27.2008:

P13188-B21 (HPE Ethernet 10/25Gb 2-port SFP28 MCX512F-ACAT Adapter)
P21927-B21 (HPE Ethernet 100Gb 2-Port QSFP28 MCX516A-CCHT Adapter)
P10112-B21 (HPE Ethernet 10/25Gb 2-port SFP28 MCX562A-ACAI OCP3 Adapter)

New Feature and Changes in Version 14.27.4000:

- Added the following segments, as appeared in the PRM, to the Resource Dump:
 - PRM_QUERY_QP
 - PRM_QUERY_CQ
 - PRM_QUERY_MKEY
 - QUERY_VNIC_ENV

New Feature and Changes in Version 16.27.2008:

This release contains important reliability improvements and security hardening enhancements. Upgrade the firmware of the device to this release to improve the devices' firmware security and reliability.

- Improved init_hca performance in Parallel Function initialization.

Supported Devices and Features

HPE Part Number	Mellanox Ethernet Only Adapters	PSID
P21930-B21	HPE Ethernet 10Gb 2-port SFP+ MCX4121A-XCHT Adapter	MT_0000000414
P11341-B21	HPE Ethernet 10Gb 2-port SFP+ MCX4621A-ACAB OCP3 Adapter	MT_0000000238
P13188-B21	HPE Ethernet 10/25Gb 2-port SFP28 MCX512F-ACHT Adapter	MT_0000000416
P10112-B21	HPE Ethernet 10/25Gb 2-port SFP28 MCX562A-ACAI OCP3 Adapter	MT_0000000241
P21927-B21	HPE Ethernet 100Gb 2-port QSFP28 MCX516A-CCHT Adapter	MT_0000000417

Online Firmware Upgrade Utility (ESXi 7.0) for Mellanox Open VPI (Ethernet and Infiniband mode) ConnectX6 devices on VMware ESXi 7.0

Version: 1.0.0 (Recommended)

Filename: CP044420.compsig; CP044420.zip

Important Note!

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

Note: On Adapter Firmware rewrite scenario, SUM will always discover the Mellanox Open adapter firmware smart component as applicable and select it for deployment if the server iLO5 firmware version is older than 2.30.

Prerequisites

Use iLO5 firmware version 2.30 or higher with ConnectX5/ConnectX6 firmware version 20.27.6008. 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 20.27.6008:

- Enabled Bar configuration bitwise by applying the write_en bitmask.
- Low PXE performance while using the VSC to trigger the send_ring_doorbells.
- Fragmented IP packets were getting dropped.
- Firmware burning after PHY-less reset is expected to be significantly slow.
- PortCounters.PortRcvErr / PPCNT.infiniband_counters.PortRcvErr were not reporting port icrc errors.
- PortXmitWait HW counter was incrementing when not expected due to an inaccuracy in the counter.

Enhancements

Firmware for the following devices are updated to 20.27.6008:

- HPE InfiniBand HDR/Ethernet 200Gb 1-port MCX653105A-HDAT QSFP56 x16 Adapter - P23664-B21
- HPE InfiniBand HDR100/Ethernet 100Gb 1-port MCX653105A-ECAT QSFP56 x16 Adapter - P23665-B21
- HPE InfiniBand HDR100/Ethernet 100Gb 2-port MCX653106A-ECAT QSFP56 x16 Adapter - P23666-B21

New Features and Changes in Version 20.27.6008:

- The following are the minimal software/firmware versions that support PAM4 link speeds when connected using Mellanox NIC to Mellanox Switch and Mellanox NIC to 3rd Party Switches:
 - Mellanox Onyx: 3.9.0830-038
 - ConnectX-6: 20.27.2008**Note: NICs with this firmware version support Mellanox-to-Mellanox connectivity with PAM4 link speeds.
- Added support for the following features:
 - Enabled KP4RS FEC on Active Fiber cable up to 30m.
 - FDR protocol.
 - Enabled updating End-to-End (E2E) credit packets instantly.

Supported Devices and Features

HPE Part Number	Device Name	PSID
P23664-B21	HPE InfiniBand HDR/Ethernet 200Gb 1-port MCX653105A-HDAT QSFP56 x16 Adapter	MT_0000000451
P23665-B21	HPE InfiniBand HDR100/Ethernet 100Gb 1-port MCX653105A-ECAT QSFP56 x16 Adapter	MT_0000000452
P23666-B21	HPE InfiniBand HDR100/Ethernet 100Gb 2-port MCX653106A-ECAT QSFP56 x16 Adapter	MT_0000000453

Firmware - NVDIMM

Firmware Package - 16GB NVDIMM-N DDR4-2666

Version: 1.04 (B) (**Recommended**)

Filename: nvdimm-16gb_1.04.fwpkg

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Enhancements

This product now supports Microsoft Windows Server 2019, Red Hat Enterprise Linux 8, SUSE Linux Enterprise Server 15 and VMware ESXi 7.0.

Supported Devices and Features

This package supports the following Memory Device:

- HPE 16GB NVDIMM Single Rank x4 DDR4-2666 Module Kit

Firmware package for HPE Persistent Memory featuring Intel Optane DC Persistent Memory on HPE Gen10 Servers

Version: 01.02.00.5435 (B) (**Recommended**)

Filename: dcpmm_01.02.00.5435.fwpkg

Important Note!

This software package contains Intel Optane DC Persistent Memory Firmware version 1.2.0.5435

Enhancements

- This product contains mainly performance improvements.
- This product now supports Red Hat Enterprise Linux 8, SUSE Linux Enterprise Server 12 and VMware ESXi 7.0.

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

Firmware - Storage Controller

HPE D3600/D3700/D3610/D3710 12Gb SAS Disk Enclosure ROM Flash Component for VMware (ESXi)

Version: 5.04 (A) (**Recommended**)

Filename: CP044974.compsig; CP044974.md5; CP044974.zip

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Important Note!

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

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

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

Prerequisites

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

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

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

Fixes

The following fixes were incorporated in this version:

- The Enabled-ClusterS2D command now completes successfully when executed on a SATA drive within a D3610 disk enclosure for a NonStop solution.
- The smart carrier, which is the drive case for SAS drives, now authenticates in the D3610/D3710 drive enclosure.
- Added new 7-segment error codes E0 and E1 to report issues with Fan modules A and B, respectively. These new codes only apply to the D3610/D3710 and only display when running firmware 5.04.
- If the storage enclosure processor within the I/O module fails, a hard reset (power down and then power up) is executed to ensure the processor comes back online.

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

Supported Devices and Features

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

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

HPE D6020 12Gb SAS Disk Enclosure ROM Flash Component for VMware (ESXi)

Version: 2.74 (H) (**Recommended**)

Filename: CP044572.compsig; CP044572.md5; CP044572.zip

Important Note!

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

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

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

Prerequisites

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

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

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

Fixes

The following fixes were incorporated in this version:

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

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

Supported Devices and Features

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

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

HPE D8000 12Gb SAS Disk Enclosure ROM Flash Component for VMware (ESXi)

Version: 0107 (A) (**Recommended**)

Filename: CP044975.compsig; CP044975.md5; CP044975.zip

Important Note!

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

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

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

Prerequisites

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

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

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

Fixes

The following fixes were incorporated in this version:

- In STD INQUIRY RESPONSE, the ErrM bit was always being set. The ErrM bit indicates that the enclosure firmware detects a mismatch in any of its package versions and the firmware version of a FRU component. The issue was due to an incorrect version of PSU firmware being included and that has been fixed.
- After installing the latest firmware on the enclosure I/O modules, the SES targets could not be discovered on the host. The virtual phy bit in SMP DISCOVER RESPONSE, which is used by the Microchip smartpqi HBA, was det for the virtual phy of the I/O module.

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

Supported Devices and Features

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

- HPE Smart Array P408e-p Controller

- HPE Smart Array E208e-p Controller

Online Firmware Flash for ESXi - HPE NS204i-p Gen10+ Boot Controller

Version: 1.0.14.1047 (**Recommended**)

Filename: CP041687.compsig; CP041687.zip

Important Note!

VMware **7.0u1** is supported by HPE NS204i-p Gen10+ Boot Controller

VMware 7.0 is NOT supported by HPE NS204i-p Gen10+ Boot Controller

Prerequisites

Requires iLO5 version 2.30 or later

For Intel Gen10 systems, requires system BIOS 2.36 or later.

For AMD Gen10 Plus systems, requires system BIOS 1.30 or later.

Enhancements

- Initial Firmware Smart Component release for HPE Gen10+ Boot Controller

Online ROM Flash Component for ESXi - HPE Smart Array P408i-p, P408e-p, P408i-a, P408i-c, E208i-p, E208e-p, E208i-c, E208i-a, P408i-sb, P408e-m, P204i-c, P204i-b, P816i-a and

P416i-m SR Gen10

Version: 3.00 (**Critical**)

Filename: CP044423.compsig; CP044423.zip

Prerequisites

- * Back up your data before initiating a firmware update.

Fixes

The following issues have been fixed in Smart Array controller firmware v3.00:

- * Background surface scan might not repair media errors on 12G SAS drives in RAID 1, 5, 10, and 50 logical drives.
- * In some I/O workloads, the file system or application might read incorrect data from encrypted RAID 0 (with two or more physical drives) or RAID 10/10ADM (with four or more physical drives) logical drives.
- * A controller might hang when a Test Unit Ready command fails during SSD logical drive Rapid Parity Initialization.
- * During a rebuild and extreme simultaneous host I/O writes, the rebuild operation might use old data, resulting in subsequent host reads that might return old data.
- * A host might read incorrect data after background parity initialization finishes on a logical drive on a single array with multiple logical drives.
- * A controller lockup issue might occur during the repair of an unrecoverable read error (URE) on a RAID 5 volume.
- * A controller lockup issue might occur during SmartCache error handling.
- * A controller lockup issue might occur during controller boot when SmartCache is enabled.
- * A file system or application might read incorrect data when a coalesced host request encounters a fatal error.
- * A failed drive installed during controller boot is not identified as a failed drive.
- * The failed drive status LED is not illuminated when a good drive is replaced with a failed drive in a backplane.
- * In configurations with backplanes, a failed drive installed as a replacement for a previously configured RAID volume is not identified as a failed drive.
- * A rebuild of a logical drive created from SSD drives fails to start within 1,200 seconds.
- * A performance drop during 16k to 256k sequential reads with low queue depth occurs on a logical drive with cache enabled.
- * A controller lockup issue might occur during a simultaneous host write and background cache flush operation.
- * Incorrect connector information is displayed for SATA drives after certain physical events in a dual I/O module enclosure configuration.
- * A failed drive that is physically present in a drive bay is not reported correctly.
- * Devices might drop out of a configuration after multiple create or delete drive zone group commands are issued.
- * The drive status LED does not flash during sanitize operations if drives are attached to an expander.

- * Cache disable status is not updated correctly when backup power source charging times out.
- * The clear configuration command might not clear the configuration if SmartCache is enabled and the system was previously shut down ungracefully.
- * The clear configuration command fails if a SmartCache volume has multiple UREs within a SmartCache page block size.
- * A controller lockup issue might occur when toggling a path to an enclosure in a dual domain configuration.
- * The controller runs in survival mode if a temperature sensor is not detected.
- * The clear configuration command might report failures when it encounters an installed drive with failed status.
- * A performance drop occurs during sequential workloads.
- * A controller failure might occur when running concurrent I/O to unassigned drives and drives in a RAID logical drive.
- * After a reboot, a bad drive might prevent controller discovery or operating system startup.
- * A host request is incorrectly returned as Failed when a failed drive in a degraded volume is replaced.
- * Modifying the spare configuration under an active spare rebuild causes the rebuild process to stop.
- * Incorrect device location reporting occurs when direct-attach drives are not attached to a backplane and an enclosure management schema is not defined.
- * RAID volume configuration settings are not applied when a disk drive transitions from unassigned to RAID usage during runtime.
- * A RAID volume with a failed drive reappears after a clear configuration operation completes and the system is rebooted.
- * A controller might hang during a SmartCache flush task that encounters multiple unrecoverable media errors (UREs).
- * A response of all zeros is sent for ATA PASSTHROUGH commands, such as SMART READ DATA, through Out of Band (OOB) host transport.

Enhancements

The following enhancements are part of the Smart Array controller firmware v3.00:

- * After a firmware upgrade and reboot, the background parity initialization process starts for logical drives with incomplete or failed background parity initialization status.
- * Previously, background surface scans for data consistency could wait up to 14 days between runs. Surface scan now restarts immediately when a consistency check fails. When no surface scan issues are found, surface scan maintains the 14 day waiting period.

Online ROM Flash Component for ESXi (x86) - HPE Smart Array P824i-p MR Gen10
Version: 24.23.0-0043 (B) **(Recommended)**
Filename: CP044443.compsig; CP044443.zip

Enhancements

Added support for VMware ESXi 7.0

Online ROM Flash Component for VMware ESXi - HPE Apollo 2000 Gen10 Backplane Expander Firmware
Version: 1.00 (E) **(Recommended)**
Filename: CP044326.compsig; CP044326.zip

Important Note!

Customers who already installed firmware version 1.00 do not need to update to 1.00 (E).

Enhancements

Added VMware ESXi 7.0 support

Online ROM Flash Component for VMware ESXi - HPE Apollo 45xx Gen10 Backplane Expander Firmware
Version: 1.56 (F) **(Recommended)**
Filename: CP044312.compsig; CP044312.zip

Enhancements

- Added VMware ESXi 7.0 Support

Online ROM Flash Component for VMware ESXi - HPE SAS Expander Firmware for HPE D2500sb Storage Blade
Version: 2.02 (A) **(Recommended)**
Filename: CP044325.compsig; CP044325.zip

Important Note!

- When using ESXi6.0 you must be at upgrade 3 or newer. The required SmartPQI driver is not present in earlier versions of the OS

Prerequisites

When using ESXi6.0 you must be at upgrade 3 or newer. The required SmartPQI driver is not present in earlier versions of the OS

Enhancements

Added ESXi 7.0 support.

Firmware - Storage Fibre Channel

HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for VMware vSphere 7.0
Version: 2020.09.01 (**Recommended**)
Filename: CP042544.compsig; CP042544.zip

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Important Note!

Release Notes:

[HPE Emulex Adapter Release Notes](#)

Beginning with software release 11.2, Fibre Channel (LightPulse) adapters and Converged Network adapters (OneConnect) have independent software kits.

It is highly recommended that you review the Broadcom Software Kit Migration User Guide for more detailed information regarding this change.

To obtain the guide:

- Go to <http://www.hpe.com/support/manuals>
- Using the HPE model number as your guide, enter the adapter model number in the Search products box, and then click >>.

This document provides special instructions and considerations for using the driver kits for FC and CNA adapters.

Special cases include those in which pre-11.2 (original) drivers and applications are replaced by the new 11.2 drivers and applications, and cases in which inbox drivers are replaced by the new 11.2 out-of-box (OOB) drivers.

This Firmware package contains following firmware versions:

Adapter	Speed	Universal Boot Image	Firmware	UEFI	Boot Bios
HPE 81E 8Gb Single Port PCIe Fibre Channel Host Bus Adapter	8Gb	12.60a4	2.10X6	12.6.284.0	12.6.302.0
HPE 82E 8Gb Dual Port PCIe Fibre Channel Host Bus Adapter	8Gb	12.60a4	2.10X6	12.6.284.0	12.6.302.0
HPE 84E 8Gb Quad Port Fibre Channel Host Bus Adapter	8Gb	12.60a4	2.10X6	12.6.284.0	12.6.302.0
HPE SN1000E 16Gb Dual Port Fibre Channel Host Bus Adapter	16Gb	12.6.275.12	12.6.275.12	12.6.275.7	12.6.271.0
HPE SN1000E 16Gb Single Port Fibre Channel Host Bus Adapter	16Gb	12.6.275.12	12.6.275.12	12.6.275.7	12.6.271.0
HPE SN1100E 16Gb Dual Port Fibre Channel Host Bus Adapter	16Gb	12.6.275.12	12.6.275.12	12.6.275.7	12.6.271.0
HPE SN1100E 16Gb Single Port Fibre Channel Host Bus Adapter	16Gb	12.6.275.12	12.6.275.12	12.6.275.7	12.6.271.0
HPE SN1100E Quad Port 16Gb Fibre Channel Host Bus Adapter	16Gb	12.6.275.12	12.6.275.12	12.6.275.7	12.6.271.0
HPE SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	16Gb	12.6.275.12	12.6.275.12	12.6.275.7	12.6.271.0
HPE SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	16Gb	12.6.275.12	12.6.275.12	12.6.275.7	12.6.271.0
HPE SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	16Gb	12.6.275.12	12.6.275.12	12.6.275.7	12.6.271.0
HPE SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	12.6.275.12	12.6.275.12	12.6.275.7	12.6.271.0
HPE SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	12.6.275.12	12.6.275.12	12.6.275.7	12.6.271.0
HPE SN1610E 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	12.6.275.12	12.6.275.12	12.6.275.7	12.6.271.0
HPE SN1610E 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	12.6.275.12	12.6.275.12	12.6.275.7	12.6.271.0

Prerequisites

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

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

Enhancements

We have separate components to update fibre channel and converged network adapters. This is a fibre channel update component.

Contains:

- 32 Gb universal boot 12.6.275.12(EFI 12.6.275.7 BOOT BIOS 12.6.271.0 Firmware 12.6.275.12)
- 16/32 Gb universal boot 12.6.275.12(EFI 12.6.275.7 BOOT BIOS 12.6.271.0 Firmware 12.6.275.12)
- 16 Gb universal boot 12.6.275.12(EFI 12.6.275.7 BOOT BIOS 12.6.271.0 Firmware 12.6.275.12)
- 8 Gb HBA Standup firmware 2.10X6
- 8 Gb standup universal boot image 12.60a4(12.6.302.0 BIOS, 12.6.284.0 UEFI)

Supported Devices and Features

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

8Gb FC Adapter:

- HPE 81E 8Gb Single Port PCIe Fibre Channel Host Bus Adapter
- HPE 82E 8Gb Dual Port PCIe Fibre Channel Host Bus Adapter
- HPE 84E 8Gb Quad Port Fibre Channel Host Bus Adapter

16Gb FC Adapter:

- HPE SN1000E 16Gb Dual Port Fibre Channel Host Bus Adapter

- HPE SN1000E 16Gb Single Port Fibre Channel Host Bus Adapter
- HPE SN1100E 16Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1100E 16Gb Single Port Fibre Channel Host Bus Adapter
- HPE SN1100E Quad Port 16Gb Fibre Channel Host Bus Adapter
- HPE SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1200E 16Gb 1Single 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

HPE Firmware Flash for Emulex Mezzanine Fibre Channel Host Bus Adapters for VMware vSphere 7.0

Version: 2020.09.01 (**Recommended**)

Filename: CP042545.compsig; CP042545.zip

Important Note!

Release Notes:

[HPE Emulex Adapter Release Notes](#)

Beginning with software release 11.2, Fibre Channel (LightPulse) adapters and Converged Network adapters (OneConnect) have independent software kits.

It is highly recommended that you review the Broadcom Software Kit Migration User Guide for more detailed information regarding this change.

To obtain the guide:

1. Go to <http://www.hpe.com/support/manuals>
2. Using the HPE model number as your guide, enter the adapter model number in the Search products box, and then click >>.

This document provides special instructions and considerations for using the driver kits for FC and CNA adapters.

Special cases include those in which pre-11.2 (original) drivers and applications are replaced by the new 11.2 drivers and applications, and cases in which inbox drivers are replaced by the new 11.2 out-of-box (OOB) drivers.

This Firmware package contains following firmware versions:

Adapter	Speed	Universal Boot Image	Firmware	UEFI	Boot Bios
HPE LPe1205A 8Gb Fibre Channel Host Bus Adapter for BladeSystem c-Class	8Gb	12.40a6	2.10X6	12.4.262.0	12.4.153.0
HPE 16Gb LPe1605 Fibre Channel Host Bus Adapter for BladeSystem c-Class	16Gb	12.4.270.10	12.4.270.10	N/A	N/A

Prerequisites

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

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

Enhancements

We have separate components to update fibre channel and converged network adapters. This is a fibre channel update component.

Contains:

16 Gb universal boot 12.4.270.10

8 Gb Gen8 Mezz (LPe1205A) firmware 2.10X6

8 Gb Mezz universal boot image 12.40a6(12.4.262.0 BIOS, 12.4.153.0 UEFI)

Supported Devices and Features

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

8Gb FC Adapter:

- HPE LPe1205A 8Gb Fibre Channel Host Bus Adapter for BladeSystem c-Class

16Gb FC Adapter:

- HPE LPe1605 16Gb Fibre Channel Host Bus Adapter for BladeSystem c-Class

HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters for VMware vSphere 7.0

Version: 2020.09.01 (**Recommended**)

Filename: CP042547.compsig; CP042547.zip

Important Note!

Refer release notes available at:

[HPE QLogic Adapter Release Notes](#)

This Firmware package contains following firmware versions:

Adapter	Speed	MBI	Firmware	UEFI	Boot Bios
HPE 81Q 8Gb PCIe Fibre Channel Host Bus Adapter	8Gb	3.82.00	8.08.207	7.00	3.56
HPE 82Q 8Gb Dual Port PCIe Fibre Channel Host Bus Adapter	8Gb	3.82.00	8.08.207	7.00	3.56
HPE 84Q 8Gb Quad Port Fibre Channel Host Bus Adapter	8Gb	3.82.00	8.08.207	7.00	3.56

HPE SN1000Q 16Gb Dual Port PCIe Fibre Channel Host Bus Adapter	16Gb	6.03.00	8.08.231	7.02	3.43
HPE SN1000Q 16Gb Single Port PCIe Fibre Channel Host Bus Adapter	16Gb	6.03.00	8.08.231	7.02	3.43
HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	02.03.06	09.04.01	7.08	0.0
HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	02.03.06	09.04.01	7.08	0.0

Fixed the following:

- Enhancements have been made to the firmware to prevent and better recover from the unexpected behavior described in Customer Advisory titled: "HPE ProLiant, Synergy and Superdome Flex Host Bus Adapters (HBA) - Certain Fibre Channel HBA Firmware May Cause the Operating System to Halt and Potentially Compromise Filesystem Data Integrity" at the following link:

https://support.hpe.com/hpsc/public/docDisplay?docLocale=en_US&docId=a00094722en_us

- Address unexpected behavior when Fibre Channel adapters were simultaneously running traffic to an array which supports 3PAR Persistent Checksum AND another array which is running T10-PI (also known as T10-DIF) or no block checksum technology at all
- Fibre Channel adapter firmware versions were not showing up as expected in the AHS log.
- Port statistics counters would sometimes not update in the event of Loss of Signal or Loss of Sync
- link downs would occur during specific frame sequences used by the HPE XP8 array after array-side link loss

Prerequisites

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

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

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

Fixes

Fixed the following:

- Enhancements have been made to the firmware to prevent and better recover from the unexpected behavior described in Customer Advisory titled: "HPE ProLiant, Synergy and Superdome Flex Host Bus Adapters (HBA) - Certain Fibre Channel HBA Firmware May Cause the Operating System to Halt and Potentially Compromise Filesystem Data Integrity" at the following link:

https://support.hpe.com/hpsc/public/docDisplay?docLocale=en_US&docId=a00094722en_us

- Address unexpected behavior when Fibre Channel adapters were simultaneously running traffic to an array which supports 3PAR Persistent Checksum AND another array which is running T10-PI (also known as T10-DIF) or no block checksum technology at all
- Fibre Channel adapter firmware versions were not showing up as expected in the AHS log.
- Port statistics counters would sometimes not update in the event of Loss of Signal or Loss of Sync
- link downs would occur during specific frame sequences used by the HPE XP8 array after array-side link loss

Enhancements

Updated the Firmware/BIOS/UEFI packages for 8 Gb, 16 Gb and 32 Gb products.

Adapter	Speed	MBI	Firmware	UEFI	Boot Bios
HPE 81Q 8Gb PCIe Fibre Channel Host Bus Adapter	8Gb	3.82.00	8.08.207	7.00	3.56
HPE 82Q 8Gb Dual Port PCIe Fibre Channel Host Bus Adapter	8Gb	3.82.00	8.08.207	7.00	3.56
HPE 84Q 8Gb Quad Port Fibre Channel Host Bus Adapter	8Gb	3.82.00	8.08.207	7.00	3.56
HPE SN1000Q 16Gb Dual Port PCIe Fibre Channel Host Bus Adapter	16Gb	6.03.00	8.08.231	7.02	3.43
HPE SN1000Q 16Gb Single Port PCIe Fibre Channel Host Bus Adapter	16Gb	6.03.00	8.08.231	7.02	3.43
HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	02.03.06	09.04.01	7.08	0.0
HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	02.03.06	09.04.01	7.08	0.0

Supported Devices and Features

This firmware supports the following HPE adapters:

8Gb Fibre Channel Host Bus Adapter:

- HPE 81Q 8Gb Single Port PCIe Fibre Channel Host Bus Adapter
- HPE 82Q 8Gb Dual Port PCIe Fibre Channel Host Bus Adapter
- HPE 84Q 8Gb Quad Port Fibre Channel Host Bus Adapter

16Gb Fibre Channel Host Bus Adapter:

- HPE SN1000Q 16Gb Dual Port PCIe Fibre Channel Host Bus Adapter
- HPE SN1000Q 16Gb Single Port PCIe Fibre Channel Host Bus Adapter

32Gb Fibre Channel Host Bus Adapter:

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

HPE Firmware Flash for QLogic Fibre Channel Mezzanine Host Bus Adapters for VMware vSphere 7.0

Version: 2020.09.01 (**Recommended**)

Filename: CP042548.compsig; CP042548.zip

Important Note!

Release Notes:

[HPE QLogic Adapter Release Notes](#)

This Firmware package contains following firmware versions:

Adapter	Speed	MBI	Firmware	UEFI	Boot Bios
HPE QMH2572 8Gb Fibre Channel Host Bus Adapter for c-Class BladeSystem	8Gb	3.81.05	8.08.206	7.00	3.56
HPE QMH2672 16Gb Fibre Channel Host Bus Adapter for c-Class BladeSystem	16Gb	6.02.01	8.08.230	7.02	3.43

Prerequisites

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

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

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

Enhancements

Updated the Firmware/BIOS/UEFI packages for 8 Gb and 16 Gb products.

- Gen4 Fibre Channel Host Bus Adapter:
 - Package 3.12.05
 - Firmware 8.08.206
 - UEFI 7.00
 - BIOS 3.56
- Gen5 Fibre Channel Host Bus Adapter:
 - Package 6.02.01
 - Firmware 8.08.230
 - UEFI 7.02
 - BIOS 3.43

Supported Devices and Features

This Firmware component supports the following HPE adapters:

8Gb Fibre Channel Host Bus Adapter:

- HPE QMH2572 8Gb Fibre Channel Host Bus Adapter for c-Class BladeSystem

16Gb Fibre Channel Host Bus Adapter:

- HPE QMH2672 16Gb Fibre Channel Host Bus Adapter for c-Class BladeSystem

Software - Management

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HPE Agentless Management Bundle Smart Component on ESXi 7.0

Version: 2020.09.01 (**Recommended**)

Filename: cp043232.compsig; cp043232.zip

Fixes

- Add support for distributed switch to resolve AMS issue of not reporting the Host IP address
- Fix duplicate IP address reporting issue
- Add fix to skip CPU and Memory Usage data collection when CPU and Memory Usage Logging is disabled
- Disable Logical Disk Usage logging by default

Enhancements

Added the option to enable/disable AHS Logical Disk Usage logging

HPE CRU Driver Bundle Smart Component for ESXi 7.0

Version: 2020.04.01 (A) (**Recommended**)

Filename: cp044598.compsig; cp044598.zip

Enhancements

Add new supported servers

HPE Fiber Channel and Storage Enablement Bundle Smart Component for ESXi 7.0

Version: 2020.09.01 (**Recommended**)

Filename: cp044095.compsig; cp044095.zip

Enhancements

Supports VMware ESXi 7.0 and ESXi 7.0 U1

HPE iLO Driver Bundle Smart Component for ESXi 7.0

Version: 2020.09.01 (**Recommended**)

Filename: cp043231.compsig; cp043231.zip

Enhancements

Supports ESXi 7.0 and ESXi 7.0 U1

HPE Smart Storage Administrator (HPE SSA) CLI Smart Component for ESXi 7.0

Version: 2020.09.10 (**Optional**)

Filename: cp044827.compsig; cp044827.zip

Enhancements

Added support for HPE Smart Array S100i SR Gen10 Plus SW RAID

HPE SMX Provider Bundle Smart Component for ESXi 7.0
Version: 2020.04.01 (A) (**Recommended**)
Filename: cp044591.compsig; cp044591.zip

Enhancements

Add new supported servers

Software - Storage Fibre Channel

HPE QLogic Fibre Channel driver component for VMware vSphere 7.0
Version: 2020.09.01 (**Recommended**)
Filename: cp042513.compsig; cp042513.zip

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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 vibstest.hpe.com webpages, plus an HPE specific CPXXXX.xml file.

Fixed the following:

- Improved adapter driver handling of and recovery from the unexpected behavior described in Customer Advisory titled: "HPE ProLiant, Synergy and Superdome Flex Host Bus Adapters (HBA) - Certain Fibre Channel HBA Firmware May Cause the Operating System to Halt and Potentially Compromise Filesystem Data Integrity" at the following link:
https://support.hpe.com/hpesc/public/docDisplay?docLocale=en_US&docId=a00094722en_us
- Attempts to recover from a management processor unresponsive as described in Customer Advisory "a00094722en_us" could lead to a secondary incomplete activity and unexpected termination of process
- Packets could be malformed when large amounts of traffic is sent to an array which supports 3PAR Persistent Checksum AND another array which is running T10-PI (also known as T10-DIF) or no block checksum technology at all

Prerequisites

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

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

Fixes

Fixed the following:

- Improved adapter driver handling of and recovery from the unexpected behavior described in Customer Advisory titled: "HPE ProLiant, Synergy and Superdome Flex Host Bus Adapters (HBA) - Certain Fibre Channel HBA Firmware May Cause the Operating System to Halt and Potentially Compromise Filesystem Data Integrity" at the following link:
https://support.hpe.com/hpesc/public/docDisplay?docLocale=en_US&docId=a00094722en_us
- Attempts to recover from a management processor unresponsive as described in Customer Advisory "a00094722en_us" could lead to a secondary incomplete activity and unexpected termination of process
- Packets could be malformed when large amounts of traffic is sent to an array which supports 3PAR Persistent Checksum AND another array which is running T10-PI (also known as T10-DIF) or no block checksum technology at all

Enhancements

Driver version 4.1.9.0

Supported Devices and Features

This driver supports the following HPE adapters:

8Gb Fibre Channel Host Bus Adapter:

- HPE 81Q 8Gb Single Port PCIe Fibre Channel Host Bus Adapter
- HPE 82Q 8Gb Dual Port PCIe Fibre Channel Host Bus Adapter
- HPE 84Q 8Gb Quad Port Fibre Channel Host Bus Adapter

16Gb Fibre Channel Host Bus Adapter:

- HPE SN1000Q 16Gb Dual Port PCIe Fibre Channel Host Bus Adapter
- HPE SN1000Q 16Gb Single Port PCIe 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

HPE QLogic Mezzanine Fibre Channel driver component for VMware vSphere 7.0
Version: 2020.09.01 (**Recommended**)
Filename: cp042195.compsig; cp042195.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 vibstest.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 4.1.9.0

Supported Devices and Features

This driver supports the following HPE adapters:

8Gb Fibre Channel Host Bus Adapter:

- HPE QMH2572 8Gb Fibre Channel Host Bus Adapter for c-Class BladeSystem

16Gb Fibre Channel Host Bus Adapter:

- HPE QMH2672 16Gb Fibre Channel Host Bus Adapter for c-Class BladeSystem

Software - System Management

HPE Agentless Management Bundle for ESXi 7.0

Version: 700.11.6.0 (**Recommended**)

Filename: amsdComponent_700.11.6.0-24_16357308.zip

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Fixes

- Add support for distributed switch to resolve AMS issue of not reporting the Host IP address
- Fix duplicate IP address reporting issue
- Add fix to skip CPU and Memory Usage data collection when CPU and Memory Usage Logging is disabled
- Disable Logical Disk Usage logging by default

Enhancements

Added the option to enable/disable AHS Logical Disk Usage logging

HPE Fiber Channel and Storage Enablement Component for ESXi 7.0

Version: 3.6.0 (**Recommended**)

Filename: fc-enablement-component_700.3.6.0.4-1_16239845.zip

Enhancements

Supports VMware ESXi 7.0 and ESXi 7.0 U1

HPE Smart Storage Administrator (HPE SSA) CLI for VMware 7.0

Version: 4.21.7.0 (**Optional**)

Filename: hpecli-component_4.21.7.0-7.0.0_15525992.zip

Enhancements

Added support for HPE Smart Array S100i SR Gen10 Plus SW RAID

HPE SMX Provider Component for ESXi 7.0

Version: 3.16.00 (**Recommended**)

Filename: smxProvider_700.03.16.00__1_.12_14828939_signed_component_1567546.zip

Enhancements

Support for VMware ESXi 7.0

HPE Utilities Offline Bundle for ESXi 7.0

Version: 10.5.0 (**Recommended**)

Filename: HPE-Utility-Component_10.5.0-63-sisigned_component-15745486.zip; relnotes.txt

Important Note!

Refer to the HPE VMware Utilities Guide for VMware vSphere/ESXi which is located at www.hpe.com/info/vmware/proliant-docs.

Enhancements

Supports VMware ESXi 7.0

Integrated Smart Update Tools for VMware ESXi 7.0

Version: 700.2.7.0 (**Recommended**)

Filename: sutComponent_700.2.7.0.32-0-signed_component-16604702.zip

Important Note!

Integrated Smart Update Tools for ESXi 7.0 provides support for firmware and driver updates via iLO Repository

Fixes

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

Enhancements

See the [iSUT Release Notes](#) for information about the enhancements in this release.

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